

## **NOTICE OF OPEN MEETING**

Posted 5:00 p.m., Friday, August 30, 2024

Notice is hereby given that the Neosho City Council will meet in regular session on Tuesday, September 3, 2024 at 7:00 p.m., in the Council Chambers at City Hall 203 East Main Street, Neosho, Missouri. Fri

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### **AGENDA REGULAR SESSION NEOSHO CITY COUNCIL**

**The agenda of this meeting includes:**

#### **OPENING PRAYER & PLEDGE OF ALLEGIANCE**

#### **CALL TO ORDER**

#### **ROLL CALL**

#### **APPROVAL OF AGENDA**

#### **CONSENT AGENDA**

1. August 20, 2024 Open Session Council Minutes
2. Bill No- 2024-70: FY2025 City Budget
3. Bill No. 2024-71: Hickory Avenue partial Right-of-Way Abandonment for Habitat for Humanity
4. Bill No. 2024-72: Rezoning of 722 S. College from R-1, First Dwelling House District to R-2, Second Dwelling House District
5. Bill No. 2024-74: Change Order#2 to Agreement with Jeff Asbell for Stratford and Freeman Stormwater Project
6. Bill No. 2024-75: Liberty Easements for Pole Replacement at Hwy 59 and Industrial

#### **UNFINISHED BUSINESS**

1. Bill No. 2024-73: Amending Code for UTVs on City Streets

#### **VISITOR'S BUSINESS**

#### **BIDS**

1. FY25 Bulk Rock Salt
2. FY25 Concrete
3. FY25 Bulk Rock
4. FY25 Asphalt
5. Celebrate Neosho Fireworks Display
6. Golf Pro Shop Renovations
7. HVAC Bids
8. Pest Control Services



## **September 3, 2024 City Council Meeting**

### **NEW BUSINESS**

1. Bill No. 2024-76: Request for Voluntary Annexation 2830 Bowler Drive
2. Bill No. 2024-77: Amending Ordinance 215.195 Fireworks
3. Bill No. 2024-78: Contract with Jackson Plumbing for City-wide Plumbing Services
4. Bill No. 2024-79: Agreement with Henson Electric for City-Wide Electrical Services
5. Bill No. 2024-80: MODOT Hazardous Moving Violation Grant\_Police Department
6. Bill No. 2024-81: MODOT Driving While Intoxicated Grant\_Police Department
7. Bill No 2024-82: Agreement with Missouri Sugars for Calculation of Sewer Service
8. Resolution Bill No. 2024-50: Contract with Springfield Striping and Sealing for Airport Runway, Taxiway, and Apron Repairs
9. Resolution Bill No. 2024-51: Contract with Construction Services Group for Golf Pro Shop Improvements
10. Resolution Bill No. 2024-53: National Opioid Settlement
11. Resolution Bill No. 2024-54: Missouri Department of Transportation Aviation Grant
12. Land Lease Spring and Lafayette Streets
13. Leak Adjustment Versluis Utility Account
14. FY2025 Form 4379
15. DOR Form 4592
16. Irrevocable Consent to Annexation 1372 Neosho Drive
17. Shoal Creek Wastewater Treatment Plant Evaluation

### **REPORT OF CITY OFFICERS**

1. Walking Trails Stencil Project-Newton County Health Dept.
2. Fall Festival Update

### **ADJOURN**

**MINUTES**  
**NEOSHO CITY COUNCIL**  
**August 20, 2024 - 7:00 PM**  
**Neosho Council Chambers**  
**203 E. Main St., Neosho, MO**

**OPENING PRAYER & PLEDGE OF ALLEGIANCE**

Pastor John St. Clair opened with prayer and Mayor Davidson led the pledge of allegiance.

**CALL TO ORDER**

Mayor Davidson called the meeting to order at 7 p.m.

**ROLL CALL**

COUNCIL PRESENT:

Carl Cobb, Julie Humphrey, Tom Workman, Richard Davidson, Ashton Robinson

COUNCIL ABSENT:

Angela Thomas, Charles Collinsworth

CITY OFFICERS PRESENT:

David Kennedy, City Manager; Derek Snyder, City Attorney; and Cheyenne Wright, City Clerk, minutes taken by clerk.

**APPROVAL OF AGENDA**

Councilman Cobb made a motion to Approve the Agenda; Councilman Workman seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**CONSENT AGENDA**

Councilman Cobb made a motion to Approve the Consent Agenda to include:

August 6, 2024 Minutes

Bill No. 2024-64

Bill No. 2024-65

Bill No. 2024-66

Bill No. 2024-67

Bill No. 2024-68

Councilman Workman seconded.

## **August 20, 2024 Council Minutes**

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **VISITOR'S BUSINESS**

#### **David Versluis - Water Leak Adjustment**

David Versluis addressed the city council regarding a high water bill at his location and already receiving a leak adjustment the previous month. He requested council approve another leak adjustment.

### **BIDS**

#### **Restriping Project**

Public Works Director Siler addressed the city council stating that this agenda item is to seek council approval for restriping of six city streets. Staff sent out bids for the restriping of city streets and received one bid back. Six city streets have been identified as needing the traffic lines to be re-painted for safety and traffic control. This includes Howard Bush Dr, Industrial Dr, Hale McGinty Dr, Garrow BLVD, Gibs Way, and Adams Dr.

Streetwise, Inc.'s total bid of \$84,742.53

Councilman Cobb made a motion to Approve the bid from Streetwise, Inc in the amount of \$84,724.53; Councilman Workman seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

#### **City Electrical Services**

City Manager Kennedy addressed the city council stating that the purpose of this item is to seek approval for citywide electrical services. There were multiple bids sent out for these services and three bids were received back from Henson Electric, Premier Contracting and Bill's Electric.

Staff recommends approving Henson Electric for citywide electrical services.

Councilwoman Robinson made a motion to Approve the city-wide electrical bid from Henson Electric; Councilwoman Humphrey seconded.

## **August 20, 2024 Council Minutes**

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **City Plumbing Services**

City Manager Kennedy addressed the city council stating that the purpose of this item is to seek approval for citywide plumbing services. There were multiple bids sent out for these services. There were two bids received back from the following:

Jackson Sales and Service

Satterlee

Councilwoman Robinson made a motion to Approve the city-wide plumbing services bid from Jackson Sales and Service; Councilman Cobb seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Airport Crack Seal**

Development Services Director Leavens addressed the city council stating that the purpose of this agenda item is to seek council approval for crack sealing at the airport. There were many bid packets sent out for these services. There was only one bid received back for these services. The purpose of this item is to gain the City Council's approval of a bid to seal cracks in the airport runway, taxiway and aprons. The city issued a request for proposals to seal cracks in the runway, taxiway, and aprons of the city's Hugh Robinson Airport. The project was divided into four project areas. A total of eighteen bid packets were sent out to area businesses providing this service. Only one completed bid packet was returned. Springfield Striping and Sealing submitted a bid for each of the project areas as follows: Runway: \$26,416.00; Taxiway: \$51,415.00; North Hanger Apron: \$23,796.80; for a total project cost of \$101,627.80.

Councilwoman Robinson made a motion to Approve Springfield Striping and Sealing for the airport crack seal in the amount of \$101,627.80; Councilman Cobb seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**PUBLIC HEARINGS**

**Public Hearing for FY25 Property Tax**

Mayor Davidson opened the public hearing for Bill No. 2024-69 FY25 Property Tax at 7:15 p.m.

There was no one present to speak.

Mayor Davidson closed the public hearing for Bill No. 2024-69 FY25 Property Tax at 7:15 p.m.

**Public Hearing for FY25 City Budget**

Mayor Davidson opened the public hearing for Bill No. 2024-70 FY25 Budget at 7:16 p.m.

There was no one present to speak.

Mayor Davidson closed the public hearing for Bill No. 2024-70 FY25 Budget at 7:16 p.m.

**Public Hearing for the Voluntary Annexation of Bowler Avenue**

Mayor Davidson opened the public hearing for Bill No. 2024-71 Voluntary Annexation for 2830 Bowler Avenue at 7:16 p.m.

There was no one present to speak.

Mayor Davidson closed the public hearing for Bill No. 2024-71 Voluntary Annexation for 2830 Bowler Avenue at 7:16 p.m.

**Public Hearing for the Rezoning of College Street from "R-1, First Dwelling Housing District" to "R-2, Second Dwelling Housing District"**

Mayor Davidson opened the public hearing for Bill No. 2024-72 Rezoning of 722 S College at 7:17 p.m.

There was no one present to speak.

Mayor Davidson closed the public hearing for Bill No. 2024-72 Rezoning of 722 S College at 7:17 p.m.

**NEW BUSINESS**

**Bill No. 2024-69: FY25 Property Tax, Under Emergency Measure, 1st, 2nd and 3rd Readings**

AN ORDINANCE OF THE CITY OF NEOSHO, MISSOURI, PROVIDING FOR THE RATE OF TAXATION AND THE LEVY AND COLLECTION OF TAXES FOR REAL PROPERTY ASSESSMENT FOR THE FISCAL YEAR COMMENCING OCTOBER 1, 2024, UNDER EMERGENCY MEASURE.

## **August 20, 2024 Council Minutes**

Attorney Snyder read Bill No. 2024-69 in title only.

Councilman Cobb made a motion to Approve and discuss Bill No. 2024-69 under 1st, 2nd, and 3rd Readings; Councilman Workman seconded.

City Clerk Wright addressed the city council stating that this item is to seek council's approval to adopt an ordinance setting the real property tax levy ceiling as authorized per RSMo Section 137.073 Article X, Section 22 of the Constitution of the State of Missouri at .3419/100 of assessed valuation. Revenue derived from this tax shall be used to support the City of Neosho's general government financial obligations.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Bill No- 2024-70: FY2025 City Budget**

AN ORDINANCE of the City of Neosho, Missouri, adopting the annual City budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025.

Attorney Snyder read Bill No. 2024-70 in title only.

Councilwoman Humphrey made a motion to Approve and Discuss Bill No. 2024-70; Councilman Cobb seconded.

Finance Director Forest addressed the city council's approval of the city's budget for the Fiscal Year beginning October 1, 2024 and ending September 30, 2025. Per Article V of the Neosho City Charter, this proposed budget is submitted for your consideration and approval for the fiscal year ending September 30, 2025. The attached budget letter and budget provide the following information on our balanced budget for the General Government Funds and Enterprise Funds: Proposed Revenues and Expenditures, Proposed Other Sources, and Proposed Other Uses. Also included is the Internal Service Fund, which represents the Health Insurance Plan.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Bill No. 2024-71: Hickory Avenue partial Right-of-Way Abandonment for Habitat for Humanity**

AN ORDINANCE of the City of Neosho declaring a certain right-of-way surplus and abandoning and vacating the west Twenty-Five Feet of right-of-way of Hickory Street between Mary Avenue and Jefferson Avenue and authorizing the same to revert to the abutting property owners.

Attorney Snyder read Bill No. 2024-71 in title only.

## August 20, 2024 Council Minutes

Councilwoman Robinson made a motion to Approve and Discuss Bill No. 2024-71; Councilman Cobb seconded.

Development Services Director Leavens addressed the city council stating that the purpose of this agenda item is to seek council approval to abandon 25' of the west side right of way for Hickory Avenue between Mary Avenue and Jefferson Avenue. In the fall of 2023, Habitat for Humanity approached the City Council about the possibility of the City abandoning part of the west side of the Hickory Avenue right-of-way for the construction of an H4H home on the southwest corner of Hickory Avenue and Mary Avenue. H4H is requesting that the western 25' of the 80' Hickory Avenue right-of-way be abandoned between Mary Avenue and Jefferson Avenue.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Bill No. 2024-72: Rezoning of 722 S. College from R-1, First Dwelling House District to R-2, Second Dwelling House District**

AN ORDINANCE of the City of Neosho to amend the zoning District Map for certain property within the limits of the City located at the 722 South College, Neosho, Missouri, as requested by the owner, Fleshman Family Farm, LLC, a Missouri Limited Liability Company, from a District "R-1" First Dwelling House District to a District "R-2" Second Dwelling House District.

Attorney Snyder read Bill No. 2024-72 in title only.

Councilman Cobb made a motion to Approve and Discuss Bill No. 2024-72; Councilman Workman seconded.

Development Services Director Leavens addressed the city council stating that the purpose of this agenda item is to seek council approval to re-zone 722 South College St from a R-1, First Dwelling House District to R-2 Second Dwelling House District. The property owner wants to remodel a home with a "mother-in-law" suite into a duplex. The property is located in an R-1 First Dwelling House District to a R-2, Second Dwelling House District. The property was properly posted and advertised and a public hearing was held by the Planning and Zoning Committee. No public comment was received. The Planning and Zoning Committee voted to recommend the approval of the rezoning to the City Council.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Bill No. 2024-73: Amending Code for UTVs on City Streets**

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AN ORDINANCE of the City of Neosho amending Chapter 300 General Provisions, Title III Traffic Code, of the Code of Ordinances by amending Section 300.020 Definitions to repeal and replace the definition of Motor Vehicle and add a new definition for Utility Vehicle and amending Chapter 340 Miscellaneous Driving Rules, Title III Traffic Code, of the Code of Ordinances by repealing and replacing Section 340.120 Off Road Vehicles, Allowed—Exceptions, Prohibited Uses for adding exceptions of Utility Vehicles and Golf Carts on City Streets.

Attorney Snyder read Bill No. 2024-73 in title only.

Councilwoman Robinson made a motion to Approve and Discuss Bill No. 2024-73; Councilwoman Humphrey seconded.

Police Chief Baird addressed the city council stating that the purpose of this item is to seek approval for allowing UTV and Golf carts on city streets. At the request of several citizens, we developed an ordinance allowing a Utility Task Vehicle (UTV) and golf carts on city streets.

Roll call vote:

Yes: Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: Carl Cobb

Abstain: None

Passed.

### **Bill No. 2024-74: Change Order#2 to Agreement with Jeff Asbell for Stratford and Freeman Stormwater Project**

AN ORDINANCE of the City of Neosho authorizing Change Order No. 2 for an Agreement for Construction Services with Jeff Asbell Excavating & Trucking, Inc., a Missouri Corporation for cost overrun in the amount of Fifteen Thousand Four Hundred Fifty-One and 26/100 Dollars (\$15,451.26) and authorizing the Mayor to execute the same by and on behalf of the City of Neosho; and containing an emergency provision.

Attorney Snyder read Bill No. 2024-74 in title only.

Councilwoman Humphrey made a motion to Approve and Discuss Bill No. 2024-74; Councilman Workman seconded.

Development Services Director Leavens addressed the city council stating that the purpose of this agenda item is to seek council approval for a change order for Stratford and Freeman Road. This is a DED/CDBG grant which was awarded to the city of Neosho for drainage. The change order request is for additional work needed to the box culverts once the private lines were located. The depth of the lines caused modifications to the prefab box culverts. As it stands, the city's grant will cover this overage of costs. However, throughout the project, if additional modifications are needed, the city will then need to utilize drainage fund balance to cover the costs.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.



**Bill No. 2024-75: Liberty Easements for Pole Replacement at Hwy 59 and Industrial**

AN ORDINANCE of the City of Neosho, Missouri, authorizing to grant an easement to The Empire District Electric Company, a Missouri private utility company, for the purpose of constructing and maintaining improvements for electric service on certain property located in Section 05, Township 24, Range 32, Newton County, Missouri; and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.

Attorney Snyder read Bill No. 2024-75 in title only.

Councilwoman Robinson made a motion to Approve and Discuss Bill No. 2024-75; Councilman Workman seconded.

Public Works Director Siler addressed the city council stating that this agenda item is to seek council approval to grant Liberty easement rights at the intersection of 59 & Industrial Drive. Liberty utilities are relocating a telephone pole at this intersection which is needed for intersection improvements by the City of Neosho. This moves the pole further to the south, allowing the opportunity for a right-turn lane onto 59 highways.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**Resolution Bill No. 2024-43: Streetwise Inc. Agreement for Restriping City Streets**

A RESOLUTION of the City of Neosho, Missouri, approving an agreement with Streetwise, Inc., a Missouri Corporation, for the purpose of providing Contractor services for the restriping of certain streets within the City for the not to exceed price of Eighty-Six Thousand One Hundred Sixty-Two and 53/100 dollars (\$86,162.53) and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.

Attorney Snyder read Resolution Bill No. 2024-43 in title only.

Councilwoman Robinson made a motion to Approve and Discuss Resolution Bill No. 2024-43; Councilman Workman seconded.

Public Works Director Siler addressed the city council stating that the this agenda item is to seek council approval for the Mayor to sign the Overlay and Asphalt Milling Agreement with Streetsise Inc. This is the agreement with Streetwise Inc. to complete restriping of City Streets where the Council approved the bid of 86,162.53

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**Resolution Bill No. 2024-44: Marion Company, LLC Agreement for Parking Lot Construction**

A RESOLUTION of the City of Neosho, Missouri, approving an agreement with Marion Company, LLC, a Missouri Limited Liability Company, for the purpose of providing Contractor services for the construction of a parking lot along Spring Street for the not to exceed price of One Hundred Forty-Five Thousand Nine Hundred and 00/100 dollars (\$145,900.00) and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.

Attorney Snyder read Resolution Bill No. 2024-44 in title only.

Councilman Cobb made a motion to Approve and Discuss Resolution Bill No. 2024-44; Councilman Workman seconded.

City Manager Kennedy addressed the city council stating that the purpose of this item is to seek approval for the Mayor to sign the Parking Lot Construction Agreement with Marion Company, LLC. This is the agreement with Marion Company, LLC to provide construction services for a new Spring Street parking area where the Council approved the bid of \$145,900.00

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**Resolution Bill No. 2024-45: Adopted Purchasing Policy FY2025**

A RESOLUTION of the City of Neosho, Missouri, adopting purchasing policies and procedures for the administration and staff of the City of Neosho.

Attorney Snyder read Resolution Bill No. 2024-45 in title only.

Councilwoman Robinson made a motion to Approve and Discuss Resolution Bill No. 2024-45; Councilman Cobb seconded.

Finance Director Forest addressed the city council stating that the purpose of this item is to seek approval for the purchasing policy with the new budget for FY2025. The current purchasing policy and procedures was last updated for a cooperative procurement program in 2023. The policy has been updated to add clarity to the language and for gender neutrality.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**Resolution Bill No. 2024-46: Frog Pond Endeavors, LLC, Jireh Properties**

A RESOLUTION of the City of Neosho, Missouri, approving a Development Agreement by and between the City of Neosho and Jireh Real Properties, LLC, a Missouri Limited Liability Company, and Frog Pond Endeavors, LLC, a Missouri Limited Liability Company for the purpose of providing reimbursement costs for public sewer main extension for the not to exceed amount of Twenty-Five Thousand and 00/100 dollars (\$25,000.00) and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.

Attorney Snyder read Resolution Bill No. 2024-46 in title only.

Councilman Cobb made a motion to Approve and discuss Resolution Bill No. 2024-46; Councilman Workman seconded.

City Manager Kennedy addressed the city council stating that the purpose of this item is to seek approval for To approve the resolution for Frog Pond Endeavors, LLC/Jireh Properties. The city is utilizing ARPA funding for the reimbursement of a main line extension to Frog Pond Endeavors, LLC/Jireh Properties to help promote economic development in the area of Blue Oak Plaza. The amount approved for this reimbursement is \$25,000.00 from the American Rescue Plan Act which was awarded to the City of Neosho.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**Resolution Bill No. 2024-47: Support for Excell Development Group's, Gateway Glen Senior Housing.**

A RESOLUTION of the City of Neosho, Missouri, supporting the proposed affordable senior housing presented by Excell Development Group.

Attorney Snyder read Resolution Bill No. 2024-47 in title only.

Councilwoman Robinson made a motion to Approve and Discuss Resolution Bill No. 2024-47; Councilman Cobb seconded.

Development Services Director Leavens addressed the city council stating that the purpose of this agenda item is to approve the Resolution of Support for Excell Development Group's, Gateway Glen senior housing project and authorize the Mayor and City Manager to sign letters of support. The city has approved the application of an infrastructure grant through the Department of Economic Development's Community Development Block Grant - Disaster Relief grant program. This resolution and the letters of support will assist Excell Development in obtaining additional funding for their project.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

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Abstain: None

Passed.

### **Resolution Bill No. 2024-48: Amending Employee Handbook - Nepotism Policy**

A RESOLUTION of the City of Neosho, Missouri, adopting a new Nepotism Policy for employment for the City of Neosho.

Attorney Snyder read Resolution Bill No. 2024-48 in title only.

Councilman Cobb made a motion to Approve and Discuss Resolution Bill No. 2024-48; Councilman Workman seconded.

Human Resources Director Muhic addressed the city council stating that the purpose of this item is to seek approval for amending the employee handbook to update the nepotism policy. The purpose of this policy is to address where employees have family members working in the same department. It ensures that these positions do not conflict with each other, nor involve any supervisory roles over one another. The policy is designed to allow relatives to work together under conditions that prevent conflicts of interest and uphold fairness. Employees with family members in the same department are paid from different budget line items based on their roles. However, the roles do not conflict in some cases and may need to be paid from the same budget line item.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Resolution Bill No. 2024-49: Destruction of Records**

A RESOLUTION OF THE CITY OF NEOSHO, MISSOURI, NOTIFYING THE COUNCIL OF THE DESTRUCTION OF CITY RECORDS.

Attorney Snyder read Resolution Bill No. 2024-49 in title only.

Councilman Cobb made a motion to Approve and Discuss Resolution Bill No. 2024-49; Councilman Workman seconded.

City Clerk Wright addressed the city council stating that the purpose of this item is to seek approval for the destruction of municipal records. This resolution is to comply with State procedures for the retention and destruction of municipal records. RSMo 109.230 states: The director shall, with due regard for the functions of the agencies concerned, and subject to the approval of the Secretary of State: (4) Publish lists of records authorized for disposal or retention. City Code Section 110.390 states the City Clerk shall have custody of and shall safely keep the public records, the original rolls of ordinances and resolutions of the City Council, such other records, documents and papers of public nature as may be delivered into his/her custody.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

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Abstain: None  
Passed.

### **City Council Authorization to Participate in Missouri's Highway Safety Program - DWI & HMTV Enforcement**

Police Chief Baird addressed the city council stating that the purpose of this item is to seek approval for the police department to apply for the HMTV and DWI grant.

Councilwoman Humphrey made a motion to Approve the HMTV and DWI Grant for Police Department; Councilman Workman seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Fireworks Discussion**

City Manager Kennedy addressed the city council regarding when to allow citizens to set off fireworks in the city.

Mayor Davidson stated that he would like to see an ordinance come back to council for the September 3rd Council Meeting.

## **APPOINTMENTS AND VACANCIES**

### **Neosho Housing Authority Board**

#### **1. Request for Reappointment from Dwight Phillips**

Mayor Davidson asked if there was a motion to reappoint Dwight Phillips to the Neosho Housing Authority Board.

Councilman Workman made a motion to reappoint Dwight Phillips to the Neosho Housing Authority Board; Councilwoman Humphrey seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

### **Parks and Recreation Board (One Vacancy to expire on 8/31/2025)**

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- 1. Letter of Resignation from Anthony Miller**
- 2. Letter of Interest from Anna Turney**

Councilman Cobb made a motion to accept the resignation of Anthony Miller and appoint Anna Turney to the Parks and Rec Board; Councilman Workman seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

**Planning and Zoning Commission (Two Vacancies; One Unfulfilled to expire 8/31/2025 and One new term that will expire 8/31/2027)**

- 1. Letter of Resignation from Justin Morehead**
- 2. Letter of Resignation from Denise Briez**
- 3. Letter of Interest from Philip Thompson**

Councilman Cobb made a motion to accept the resignation of Justin Morehead and Denise Briez and appoint Philip Thompson to P&Z ; Councilwoman Robinson seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

## REPORT OF CITY OFFICERS

### July Financial Report

Finance Director Forest updated the council on July financials.

## CLOSED SESSION

*Section 610.021 (1) RSMo,...Legal actions, causes of action or litigation involving a public governmental body and any confidential or privileged communications between public governmental body or its representatives and its attorneys.*

*Section 610.021 (2) RSMo...Leasing, purchase or sale of real estate by a public governmental body where public knowledge of the transaction might adversely affect the legal consideration, therefore.*

Mayor Davidson made a motion to go into closed under Section 610.021 (1) and (2); Councilman Workman seconded.

Roll call vote:

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Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

Mayor Davidson closed the meeting at 8:10 p.m.

Mayor Davidson reconvened council at 9:16 p.m. and announced that no votes were taken.

**ADJOURN**

There being no further business to come before the council, Mayor Davidson asked for a motion to adjourn.

Councilman Cobb made a motion to adjourn; Councilman Workman seconded.

Roll call vote:

Yes: Carl Cobb, Richard Davidson, Julie Humphrey, Ashton Robinson, Tom Workman

No: None

Abstain: None

Passed.

Mayor Davidson closed the August 20, 2024 Council Meeting at 9:17 p.m.

APPROVED

ATTEST

NEOSHO CITY COUNCIL

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Mayor

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City Clerk

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**REQUESTED COUNCIL MEETING DATE:** August 20, 2024

**ITEM:** Bill No- 2024-70: FY2025 City Budget

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**ORIGINATING DEPARTMENT:** Finance Department

**ATTACHMENT:**

1. Bill No. 2024-70 FY 2025 budget

2. FY2025 Proposed Budget

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**PURPOSE:**

To approve the city's budget for the Fiscal Year beginning October 1, 2024 and ending September 30, 2025.

**BACKGROUND:**

Per Article V of the Neosho City Charter, this proposed budget is submitted for your consideration and approval for the fiscal year ending September 30, 2025.

The attached budget letter and budget provide the following information on our balanced budget for the General Government Funds and Enterprise Funds: Proposed Revenues and Expenditures, Proposed Other Sources, and Proposed Other Uses. Also included is the Internal Service Fund, which represents the Health Insurance Plan.

**RECOMMENDATION:**

The City Manager recommends the City Council approve the city's budget for the Fiscal Year beginning October 1, 2024 and ending September 30, 2025 as presented.



**AN ORDINANCE of the City of Neosho, Missouri, adopting the annual City budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025.**

WHEREAS, in accordance with Section 5.02 of the Neosho City Charter, the City Manager has submitted to the Mayor and Council a budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025, and an accompanying message; and,

WHEREAS, in accordance with Section 5.06 of the Neosho City Charter, a public hearing on the proposed budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025, was held on August 20, 2024.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** A budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025, providing total revenues of \$62,376,319.00 and appropriations for all funds of \$55,236,906.00, including the salary schedule therein, a true and accurate copy of the same being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

**Section 2.** The City Manager is directed to cause the proper accounting entries to be made in the books and records of the City so as to reflect the revenues and appropriations set forth in the budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025.

**Section 3.** That this Ordinance shall be in full force and effect from and after its passage.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek Snyder, City Attorney

# City of Neosho, Missouri

## Adopted Annual Operating Budget

October 1, 2024 – September 30, 2025



October 1, 2024



# City of Neosho

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
<http://www.neoshomo.gov>

August 20, 2024

Citizens of the City  
Honorable Mayor and Members of the Neosho City Council  
City of Neosho  
Neosho, Missouri

In fulfillment of Article V of the Neosho City Charter, I am submitting for your consideration and approval the proposed budget for the fiscal year ending September 30, 2025.

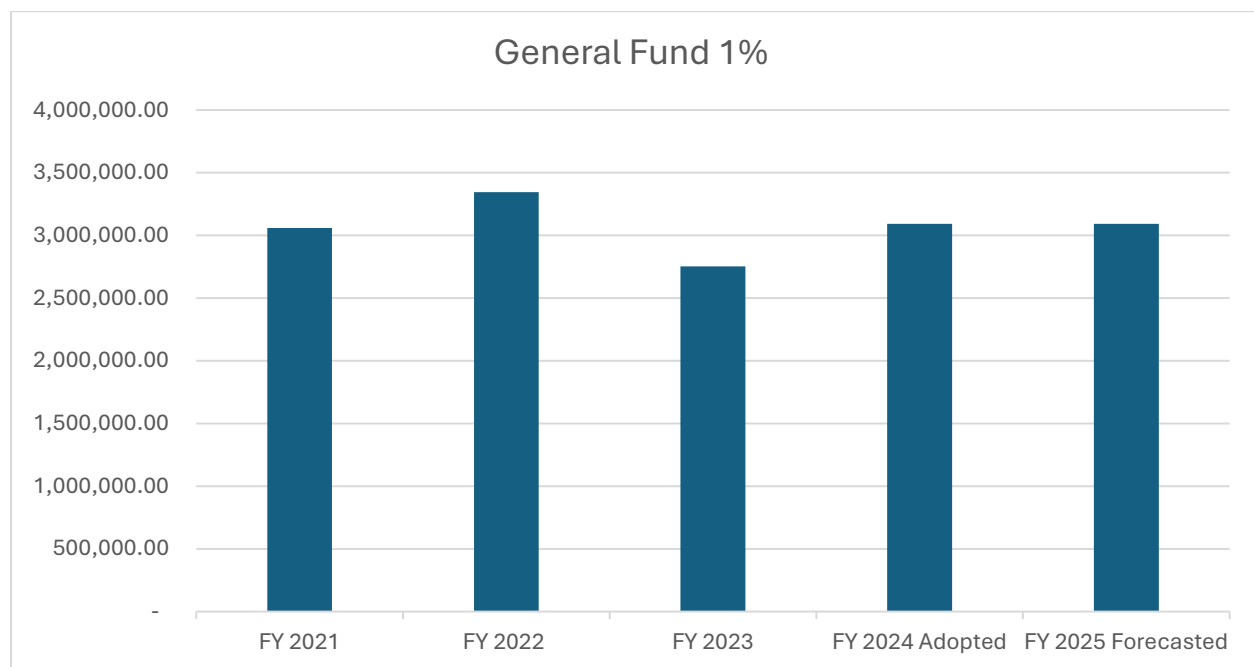
The table below provides the following information on our balanced budget for the General Government Funds and Enterprise Funds: Proposed Revenues & Expenditures, Proposed Other Sources, and Proposed Other Uses. Also displayed is a comparison to the prior two years of original adopted budgets.

|                        | Projected Fund<br>Balance | Total Revenues<br>and Other<br>Sources | Total<br>Expenditures<br>and Other Uses | Projected<br>Ending Fund<br>Balance | % of<br>Total | Change<br>Amount       | Change<br>%  |
|------------------------|---------------------------|----------------------------------------|-----------------------------------------|-------------------------------------|---------------|------------------------|--------------|
| Government Funds       | \$ 17,873,902.00          | \$ 38,228,302.00                       | \$ 40,433,154.00                        | \$ 15,669,050.00                    | 0.70          | \$ (2,204,852.00)      | -0.12        |
| Internal Service Funds | \$ 149,545.00             | \$ 1,112,018.00                        | \$ 1,111,918.00                         | \$ 149,645.00                       | 0.00          | \$ 100.00              | 0.00         |
| Enterprise Funds       | \$ 6,764,849.00           | \$ 12,183,339.00                       | \$ 12,471,816.00                        | \$ 6,476,372.00                     | 0.30          | \$ (288,477.00)        | -0.04        |
| <b>Total</b>           | <b>\$ 24,788,296.00</b>   | <b>\$ 51,523,659.00</b>                | <b>\$ 54,016,888.00</b>                 | <b>\$ 22,295,067.00</b>             | <b>1.00</b>   | <b>\$ (249,229.00)</b> | <b>-0.17</b> |

|                       | <b>FY2023<br/>Adopted<br/>Budget</b> | <b>FY2024<br/>Adopted<br/>Budget</b> | <b>FY2025<br/>Proposed</b> |
|-----------------------|--------------------------------------|--------------------------------------|----------------------------|
| Government Funds      | 38,909,227.00                        | 41,362,456.00                        | 40,433,154.00              |
| Internal Service Fund | 1,017,506.00                         | 1,019,017.00                         | 1,111,918.00               |
| Enterprise Funds      | 20,019,620.00                        | 11,177,977.00                        | 12,471,816.00              |
| <b>Total</b>          | <b>59,946,353.00</b>                 | <b>53,559,450.00</b>                 | <b>54,016,888.00</b>       |

The City's expenditures and other uses have increased for the Fiscal 2025 year. This is in large part due to the continuation of two stormwater projects related to the use of American Rescue Plan Act "ARPA" funds for drinking water, wastewater and stormwater, and the Department of Economic Development "DED" funds for Stratford Place and Freeman Road. Flooding occurs easily among the properties and roadways during moderate rainfall events and remain flooded for extended time periods after rainfall events. The proposed projects will consist of the installation of a stormwater system of inlets and piping to promote drainage of the existing area and intercept stormwater generated from the south for the Stratford Place and Freeman Road project. Construction of a new drainage ditch to mitigate flooding from Hatchery Branch and the High School Branch. Construction project will begin for improvements and overlay of Highway 59 towards Malcom Mosby Drive. This construction will include the addition of right turn lanes at the intersections of Industrial Drive and Clemons Drive and will also include stormwater improvements in this area. The adoption of the twenty-year plan for water projects will consist of replacement of water lines which are at the end of their service life, and will include replacement of gate valves, fire hydrants, service connections, and appurtenances. The City received the wastewater study this last year and has begun implementation of the plan to update and repair the wastewater collection and treatment system. Among the proposed wastewater projects is the rehabilitation of the Buffalo Creek Lift Station and the Villas/Limekiln lift station in order to mitigate the infiltration and inflow of stormwater into the sewer system.

The City has seen an overall decrease of 3.48% from FY23 in sales tax revenues received as of August 2024. The loss of retail business is a large part of the decrease. Using the five-year average for the month of September, we expect the 2023/2024 fiscal year sales tax revenues to end the fiscal year approximately 4% below actual receipts from the prior fiscal year. We have budgeted sales tax revenues for the 2024/2025 fiscal year with no growth over the budgeted sales tax revenues from the 2023/2024 fiscal year. While we have some growth in the community the decrease was unexpected, Staff feels a conservative approach is best at this time due to the uncertainties and volatility of the economy.



With overall expenses increasing at a higher rate than revenues, the staff must make decisions to ensure the ongoing success of the City. The City is committed to the management of expenditures with a strong focus on lean and efficient operations and competitive third-party contracts. During the FY2025 year, the

City plans to continue a course of action intended to improve revenues across the board to ensure continuation of important services, while continuing to practice approved bidding and purchasing procedures to find the best value for the taxpayer's dollar. The City has chosen to continue to invest in the employees in FY2025 with a 3% COLA increase for most departments with Fire receiving step increases to remain competitive in FY2025. It is no small feat to protect, provide, and maintain a safe and functioning City for our citizens. Our Staff is to be commended to for the results of their service to the Citizens of Neosho.

We continue to focus on building strong relationships with our partners in education, business, economic development, and our community in general. Great strides have been achieved, as we continue to help Neosho grow at a pace that complements our infrastructure and encourages new construction, new developments, and new citizens. The City continues our partnership with the Neosho Area Chamber of Commerce in the promoting and beautification of the City and we will continue into Fiscal Year 2025 in the same direction and collaborative spirit.

Water loss remains a top priority for the City's Utilities Departments. Public Works has identified the downtown upper-pressure zone to have the largest amount of water loss. In FY2024, installation of additional magnetic field meters have been installed in that area to further isolate locations for main repair or replacement. The water and wastewater revenues were reviewed, and an annual increase was included in FY2025. This will allow for continuous infrastructure improvements as highlighted in the twenty-year plans for water and sewer lines as well as to the Wastewater and Filtration plants in the future.

The debts of the City continue to receive careful oversight by the Staff. Our responsibility as a City is to ensure that we service these debts accordingly. In Fiscal Year 2023, the final payment for the 2012 TIF/Street debt was made. The City's debts have all been refinanced during the last nine years to take advantage of better interest rates without extending the terms of the debt. The City maintains a Standard & Poor's rating of 'A', which is equivalent to an A+ rating if we were to issue General Obligation Debt. Receiving Standard & Poor's 'A' rating demonstrates the priority we have placed on reducing our debts and honoring our ethical obligation to make these annual payments. Future debt is being considered for the construction of a Public Safety Center and the repair and replacement of the water and wastewater system as a result of the repair and replacement plan. Funds to repay this debt will be from the Public Safety tax passed in June 2020 and the water and wastewater user fees respectively. The Cities priority is to continue to maintain strong reserves now and into the future.

| Issuance | Fund               | FY2024             | 9/30/2024      | Final Payment |
|----------|--------------------|--------------------|----------------|---------------|
|          |                    | Principal Payments | Ending Balance |               |
|          | 2009 Wastewater    | 304,100.00         | 1,607,300.00   | 7/1/2030      |
|          | 2011 Water         | 497,000.00         | 4,062,000.00   | 1/1/2033      |
|          | 2021 Street/Bridge | 224,950.00         | 457,706.95     | 5/1/2027      |
|          | 2021 Senior Center | 51,010.00          | 57,458.61      | 5/1/2027      |
|          | 2021 Auditorium    | 204,040.00         | 229,834.44     | 5/1/2027      |
|          | 2016 Golf Course   | 190,000.00         | 1,465,000.00   | 5/1/2031      |
|          | Total              | 1,471,100.00       | 7,879,300.00   |               |

As we look to the future, both short term and long term, we must recognize those needs that benefit the majority of our Citizens. We will continue to utilize the five-year street plan that provides sealing and repaving for City streets each year. By using our GIS system, we have developed a plan that outlines the roads with the highest priority and a yearly projection for crack seal, slurry seal and overlay.

The City's overall financial position will continue to be monitored daily to ensure accountability and compliance. The City maintains a 60-day reserve in some funds, which is recommended by our independent auditors. For most of the funds, the City goes beyond the recommended 60 days and has kept

a 90-day reserve in recent years. Fiscal Year 2025 a 90-day reserve in the General Fund projected expenditures and other financing is calculated to be \$1,339,586.63. The projected unrestricted ending General Fund balance is expected to be \$6,911,207.86 and is the equivalent of 552 days of reserves. As a result of the prior increased sales tax revenues and careful examination of our expenditures the General Fund balance is forecasted to remain in a healthy position after the FY2024 year. The ½ of 1% Public Safety tax will be funding equipment purchases and salary increases for our Police and Fire Department in FY 2025. The City Staff are taking advantage of these extra funds to repair and replace some of the City's buildings and equipment. Discussions have begun with an architectural firm in FY2024 for the Public Safety Center. Preliminary concept designs are expected in FY2025 in addition to the breaking of ground for the new Public Safety Center.

There are always fiscal challenges for a City in any economic atmosphere. We see revenues from the 1% sales tax experiencing very slow growth in prior years. With continued uncertainty of the current inflation and economy, it is extremely important to focus on our fiscal responsibilities. Unfortunately, the cost of utilities, insurance, wages, etc. each year, grows at a higher rate than the revenues. Staff must be diligent in keeping costs down and operating their departments as efficiently as possible through proper bidding procedures and careful consideration of departmental needs. Revenues must also be examined and monitored daily. We must find other sources of revenue to offset the continuous increase in operating expenses. Whether it be the passage of a Use Tax or increase in the general tax in the future, raising Property Taxes, or the continuation of utilizing Grants to offset our expenses, we need to engage our community in these discussions. Each of these options must be carefully explored and considered. It is necessary to have careful and concise planning to fulfill obligations to both debtors and the citizens.

Respectfully,

David Kennedy  
City Manager

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**City of Neosho**  
**Forecasted Revenues**

| Fund/Department          | TX<br>Taxes   | IR<br>Intergovernmental | LP<br>Licenses & Permits | CH<br>Charges for Services | FF<br>Fines & Forfeitures | MS<br>Miscellaneous | OS<br>Other Sources | Total         |
|--------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------------------|---------------------|---------------|
| General Fund             |               |                         |                          |                            |                           |                     |                     |               |
| General Admin            | 4,419,284.00  | 132,000.00              | 40,342.00                | -                          | -                         | 725,000.00          | 22,860.00           | 5,339,486.00  |
| City Clerk               | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Communication & Events   | -             | -                       | -                        | 24,000.00                  | -                         | -                   | 22,500.00           | 46,500.00     |
| Development Services     | -             | -                       | 116,932.00               | -                          | -                         | -                   | 50,000.00           | 166,932.00    |
| Recycle Center           | -             | 142,261.00              | -                        | -                          | -                         | -                   | -                   | 142,261.00    |
| Police Department        | 100,000.00    | 2,160.00                | 500.00                   | -                          | 268,442.00                | 7,500.00            | 1,237,547.00        | 1,616,149.00  |
| Municipal Court          | -             | -                       | -                        | -                          | 17,400.00                 | -                   | -                   | 17,400.00     |
| Information Technology   | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Fleet Maintenance        | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Emergency Management     | -             | -                       | -                        | -                          | -                         | -                   | 20,144.00           | 20,144.00     |
| Human Resources          | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Airport                  | -             | 680,000.00              | -                        | 174,320.00                 | -                         | -                   | 5,660.00            | 859,980.00    |
| Public Safety Tax        | 1,546,225.00  | -                       | -                        | -                          | -                         | 55,000.00           | -                   | 1,601,225.00  |
| IOOF Cemetery            | -             | -                       | -                        | 32,000.00                  | -                         | 3,500.00            | -                   | 35,500.00     |
| Subtotal                 | 6,065,509.00  | 956,421.00              | 157,774.00               | 230,320.00                 | 285,842.00                | 791,000.00          | 1,358,711.00        | 9,845,577.00  |
| Police Grants Fund       | -             | 16,042.00               | -                        | -                          | -                         | -                   | 2,310.00            | 18,352.00     |
| Fire Department Fund     | 976,309.00    | -                       | -                        | -                          | -                         | -                   | 1,521,690.00        | 2,497,999.00  |
| Drainage Department Fund | 407,468.00    | 7,200,936.00            | -                        | -                          | -                         | 18,500.00           | -                   | 7,626,904.00  |
| Parks Department Fund    | 811,454.00    | -                       | -                        | 5,800.00                   | -                         | 23,214.00           | 743,380.00          | 1,583,848.00  |
| Streets Department Fund  | 1,498,524.00  | 24,025.00               | -                        | -                          | -                         | 70,321.00           | -                   | 1,592,870.00  |
| SHOP with a Hero Fund    | -             | -                       | -                        | -                          | -                         | 17,600.00           | -                   | 17,600.00     |
| D.A.R.E. Fund            | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Golf Course Fund         | -             | -                       | -                        | -                          | -                         | 575,000.00          | 541,738.00          | 1,116,738.00  |
| Hotel/Motel Fund         | 95,317.00     | -                       | -                        | -                          | -                         | 8,992.00            | -                   | 104,309.00    |
| TIF Fund                 | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Abbott Brothers BSP Fund | -             | -                       | -                        | 2,700.00                   | -                         | 1,449.00            | -                   | 4,149.00      |
| Morse Park Fund          | -             | -                       | -                        | -                          | -                         | 113.00              | -                   | 113.00        |
| Auditorium Fund          | 509,334.00    | -                       | -                        | -                          | -                         | 67,888.00           | -                   | 577,222.00    |
| Senior Center Fund       | 169,780.00    | -                       | -                        | -                          | -                         | 6,970.00            | -                   | 176,750.00    |
| Capital Improvement Fund | 336,204.00    | -                       | -                        | -                          | -                         | 13,969.00           | 22,460,116.00       | 22,810,289.00 |
| Street Bridge Fund       | 339,502.00    | -                       | -                        | -                          | -                         | 20,000.00           | -                   | 359,502.00    |
| Subtotal                 | 5,143,892.00  | 7,241,003.00            | -                        | 8,500.00                   | -                         | 824,016.00          | 25,269,234.00       | 38,486,645.00 |
| 2012A Series             | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| 2016 Series              | -             | -                       | -                        | -                          | -                         | -                   | 241,738.00          | 241,738.00    |
| 2021 Series              | -             | -                       | -                        | -                          | -                         | -                   | 507,002.00          | 507,002.00    |
| Subtotal                 | -             | -                       | -                        | -                          | -                         | -                   | 748,740.00          | 748,740.00    |
| Total Government Funds   | 11,209,401.00 | 8,197,424.00            | 157,774.00               | 238,820.00                 | 285,842.00                | 1,615,016.00        | 27,376,685.00       | 49,080,962.00 |



| Proprietary Funds                    | Taxes         | Intergovernmental | Licenses & Permits | Charges for Services | Fines & Forfeitures | Miscellaneous | Other Sources |     |               |
|--------------------------------------|---------------|-------------------|--------------------|----------------------|---------------------|---------------|---------------|-----|---------------|
| Internal Service Fun                 | -             | -                 | -                  | -                    | -                   | 1,112,018.00  | -             |     | 1,112,018.00  |
| Subtotal                             | -             | -                 | -                  | -                    | -                   | 1,112,018.00  | -             |     | 1,112,018.00  |
| Enterprise Fund                      |               |                   |                    |                      |                     |               |               |     |               |
| Water Admin                          | -             | -                 | -                  | 4,653,979.00         | -                   | 195,475.00    | -             |     | 4,849,454.00  |
| Distribution & Maintenance           | -             | -                 | -                  | -                    | -                   | -             | 250,000.00    |     | 250,000.00    |
| Meter Replacement                    | -             | -                 | -                  | 188,000.00           | -                   | -             | 1,179,198.00  |     | 1,367,198.00  |
| Filtration                           | -             | 132,000.00        | -                  | -                    | -                   | -             | -             |     | 132,000.00    |
| Wastewater                           | -             | -                 | -                  | 3,674,021.00         | -                   | -             | 1,910,666.00  |     | 5,584,687.00  |
| TIF Debt (2012 Series)               | -             | -                 | -                  | -                    | -                   | -             | -             |     | -             |
| Water/Wastewater Debt                | -             | -                 | -                  | -                    | -                   | -             | -             |     | -             |
| Subtotal                             | -             | 132,000.00        | -                  | 8,516,000.00         | -                   | 195,475.00    | 3,339,864.00  | - - | 14,407,375.00 |
| Total Proprietary & Enterprise Funds | -             | 132,000.00        | -                  | 8,516,000.00         | -                   | 1,307,493.00  | 3,339,864.00  | - - | 15,519,393.00 |
| All Funds Total Revenues             | 11,209,401.00 | 8,329,424.00      | 157,774.00         | 8,754,820.00         | 285,842.00          | 2,922,509.00  | 30,716,549.00 | - - | 62,376,319.00 |

**City of Neosho**  
**FY2022 Budgeted Expenditures**

| Fund/Department               | PR<br>Payroll       | SP<br>Supplies    | MC<br>Maintenance | SV<br>Services      | UT<br>Utilities   | OT<br>Other Expenses | CIP<br>Capital       | OU<br>Other Uses    | DS<br>Debt          | Total                |
|-------------------------------|---------------------|-------------------|-------------------|---------------------|-------------------|----------------------|----------------------|---------------------|---------------------|----------------------|
| <b>General Fund</b>           |                     |                   |                   |                     |                   |                      |                      |                     |                     |                      |
| General Admin                 | 387,926.00          | 15,600.00         | 27,575.00         | 153,092.00          | 38,355.00         | 2,908.00             | -                    | 2,124,412.00        | -                   | 2,749,868.00         |
| City Clerk                    | 86,696.00           | 1,020.00          | -                 | 34,701.00           | -                 | 1,128.00             | 6,500.00             | -                   | -                   | 130,045.00           |
| Communications & Events       | -                   | -                 | -                 | -                   | -                 | 36,500.00            | -                    | -                   | -                   | 36,500.00            |
| Development Services          | 273,101.00          | 17,217.00         | 1,575.00          | 67,789.00           | 3,221.00          | 3,675.00             | -                    | -                   | -                   | 366,578.00           |
| Recycle Center                | 146,185.00          | 1,944.00          | 5,500.00          | 10,536.00           | 7,045.00          | 3,500.00             | 65,261.00            | -                   | -                   | 239,971.00           |
| Police Department             | 1,943,652.00        | 26,013.00         | 40,749.00         | 1,078,110.00        | 22,566.00         | 122,407.00           | 80,000.00            | 52,310.00           | -                   | 3,365,807.00         |
| Municipal Court               | 156,827.00          | 2,877.00          | 500.00            | 9,850.00            | 2,837.00          | 5,120.00             | -                    | -                   | -                   | 178,011.00           |
| Information Technology        | 49,712.00           | 260.00            | -                 | 53,243.00           | -                 | 699.00               | -                    | -                   | -                   | 103,914.00           |
| Fleet Maintenance             | -                   | 2,100.00          | -                 | -                   | -                 | 17,200.00            | -                    | -                   | -                   | 19,300.00            |
| Emergency Management          | -                   | -                 | -                 | 16,821.00           | 3,323.00          | -                    | -                    | -                   | -                   | 20,144.00            |
| Human Resources               | 87,777.00           | 4,747.00          | -                 | 3,400.00            | -                 | 1,776.00             | -                    | -                   | -                   | 97,700.00            |
| Airport                       | 91,079.00           | 3,235.00          | 12,500.00         | 28,645.00           | 18,722.00         | 138,500.00           | 754,000.00           | -                   | -                   | 1,046,681.00         |
| Public Safety Tax             | -                   | -                 | -                 | -                   | -                 | -                    | -                    | 2,144,454.00        | -                   | 2,144,454.00         |
| IOOF Cemetery                 | 13,014.00           | 925.00            | 11,576.00         | 134,226.00          | 571.00            | 420.00               | 39,000.00            | -                   | -                   | 199,732.00           |
| <b>Subtotal</b>               | <b>3,235,969.00</b> | <b>75,938.00</b>  | <b>99,975.00</b>  | <b>1,590,413.00</b> | <b>96,640.00</b>  | <b>333,833.00</b>    | <b>944,761.00</b>    | <b>4,321,176.00</b> | <b>-</b>            | <b>10,698,705.00</b> |
| <b>Police Grants Fund</b>     | <b>8,725.00</b>     | <b>9,180.00</b>   | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>-</b>            | <b>17,905.00</b>     |
| Fire Department Fund          | 1,957,948.00        | 10,590.00         | 61,100.00         | 105,744.00          | 32,522.00         | 82,633.00            | 484,985.00           | -                   | -                   | 2,735,522.00         |
| Drainage Department Fund      | 89,300.00           | -                 | 36,750.00         | 10,650.00           | 3,198.00          | 8,099.00             | 7,703,160.00         | -                   | -                   | 7,851,157.00         |
| Parks Department Fund         | 350,211.00          | 19,000.00         | 69,000.00         | 78,563.00           | 26,794.00         | 36,669.00            | 987,652.00           | 66,530.00           | -                   | 1,634,419.00         |
| Streets Department Fund       | 604,135.00          | 115,175.00        | 62,500.00         | 639,584.00          | 193,141.00        | 50,303.00            | 229,500.00           | 5,660.00            | -                   | 1,899,998.00         |
| SHOP with a Hero Fund         | -                   | -                 | -                 | -                   | -                 | 17,500.00            | -                    | -                   | -                   | 17,500.00            |
| D.A.R.E. Fund                 | -                   | -                 | -                 | -                   | -                 | -                    | -                    | -                   | -                   | -                    |
| Golf Course Fund              | -                   | -                 | -                 | 615,419.00          | -                 | 270.00               | 300,000.00           | -                   | 241,738.00          | 1,157,427.00         |
| Hotel/Motel Fund              | -                   | -                 | -                 | -                   | 600.00            | 68,200.00            | -                    | 2,860.00            | -                   | 71,660.00            |
| TIF Fund                      | -                   | -                 | -                 | -                   | -                 | -                    | -                    | -                   | -                   | -                    |
| Abbott Brothers BSP Fund      | -                   | -                 | -                 | 653.00              | -                 | 158.00               | -                    | -                   | -                   | 811.00               |
| Morse Park Fund               | -                   | -                 | -                 | -                   | -                 | -                    | -                    | -                   | -                   | -                    |
| Auditorium Fund               | 71,691.00           | 3,675.00          | 38,070.00         | 39,810.00           | 60,811.00         | -                    | 85,000.00            | -                   | 213,718.00          | 512,775.00           |
| Senior Center Fund            | 9,120.00            | 1,000.00          | 12,500.00         | 13,331.00           | 30,248.00         | 3,525.00             | 25,000.00            | -                   | 53,680.00           | 148,404.00           |
| Capital Improvement Fund      | -                   | -                 | -                 | -                   | -                 | -                    | 11,230,058.00        | 883,476.00          | -                   | 12,113,534.00        |
| Street Bridge Fund            | -                   | -                 | -                 | -                   | -                 | -                    | -                    | 1,000,000.00        | 239,604.00          | 1,239,604.00         |
| <b>Subtotal</b>               | <b>3,091,130.00</b> | <b>158,620.00</b> | <b>279,920.00</b> | <b>1,503,754.00</b> | <b>347,314.00</b> | <b>267,357.00</b>    | <b>21,045,355.00</b> | <b>1,958,526.00</b> | <b>748,740.00</b>   | <b>29,400,716.00</b> |
| <b>2012A Series</b>           | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>-</b>            | <b>-</b>             |
| <b>2016 Series</b>            | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>246,250.00</b>   | <b>246,250.00</b>    |
| <b>2021 Series</b>            | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>506,401.00</b>   | <b>506,401.00</b>    |
| <b>Subtotal</b>               | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>752,651.00</b>   | <b>752,651.00</b>    |
| <b>Total Government Funds</b> | <b>6,327,099.00</b> | <b>234,558.00</b> | <b>379,895.00</b> | <b>3,094,167.00</b> | <b>443,954.00</b> | <b>601,190.00</b>    | <b>21,990,116.00</b> | <b>6,279,702.00</b> | <b>1,501,391.00</b> | <b>40,852,072.00</b> |

| Proprietary Funds                    | Payroll      | Supplies   | Maintenance | Services     | Utilities    | Other Expenses | Capital       | Other Uses   | Debt         |   |               |
|--------------------------------------|--------------|------------|-------------|--------------|--------------|----------------|---------------|--------------|--------------|---|---------------|
| Internal Service Fun                 | -            | -          | -           | -            | -            | -              | 1,111,918.00  | -            | -            | - | 1,111,918.00  |
| Subtotal                             | -            | -          | -           | -            | -            | -              | 1,111,918.00  | -            | -            | - | 1,111,918.00  |
| Enterprise Fund                      |              |            |             |              |              |                |               |              |              |   |               |
| Water Admin                          | 442,167.00   | 64,952.00  | 1,000.00    | 722,590.00   | 5,435.00     | 3,427.00       | 5,000.00      | -            | -            | - | 1,244,571.00  |
| Distribution & Maintenance           | 608,606.00   | 4,200.00   | 261,260.00  | 51,251.00    | 14,300.00    | 265,972.00     | 1,375,324.00  | 250,000.00   | -            | - | 2,830,913.00  |
| Meter Replacement                    | 302,860.00   | -          | -           | -            | -            | -              | -             | 1,179,198.00 | -            | - | 1,482,058.00  |
| Filtration                           | -            | 200.00     | 25,000.00   | 394,497.00   | 364,650.00   | 1,510.00       | 324,000.00    | -            | -            | - | 1,109,857.00  |
| Wastewater                           | -            | 525.00     | 88,000.00   | 1,047,924.00 | 272,247.00   | 633,558.00     | 1,948,078.00  | 1,688,031.00 | -            | - | 5,678,363.00  |
| TIF Debt (2012 Series)               | -            | -          | -           | -            | -            | -              | -             | -            | -            | - | -             |
| Water/Wastewater Debt                | -            | -          | -           | -            | -            | -              | -             | -            | 927,154.00   | - | 927,154.00    |
| Subtotal                             | 1,353,633.00 | 69,877.00  | 375,260.00  | 2,216,262.00 | 656,632.00   | 904,467.00     | 3,652,402.00  | 3,117,229.00 | 927,154.00   | - | 13,272,916.00 |
| Total Proprietary & Enterprise Funds | 1,353,633.00 | 69,877.00  | 375,260.00  | 2,216,262.00 | 656,632.00   | 2,016,385.00   | 3,652,402.00  | 3,117,229.00 | 927,154.00   | - | 14,384,834.00 |
| All Funds Total Expenditures         | 7,680,732.00 | 304,435.00 | 755,155.00  | 5,310,429.00 | 1,100,586.00 | 2,617,575.00   | 25,642,518.00 | 9,396,931.00 | 2,428,545.00 | - | 55,236,906.01 |

City of Neosho  
FY2025  
Summary By Department

| Fund                      | Department                 | FY2025 Estimated<br>Beginning Fund<br>Balance | Budgeted Revenues | Budgeted<br>Expenditures | Budgeted Other<br>Sources | Budgeted Other Uses | Budgeted Change In<br>Fund Balance | FY2025 Estimated<br>Ending Fund Balance |
|---------------------------|----------------------------|-----------------------------------------------|-------------------|--------------------------|---------------------------|---------------------|------------------------------------|-----------------------------------------|
| General Fund              | 110-Admin                  | \$ 8,746,027.23                               | \$ 5,316,626.00   | \$ 625,456.00            | \$ 22,860.00              | \$ 2,124,412.00     | \$ 2,589,618.00                    | \$ 8,436,128.23                         |
|                           | 111-Clerk                  |                                               | \$ -              | \$ 123,545.00            | \$ -                      | \$ 6,500.00         | \$ (130,045.00)                    |                                         |
|                           | 113-Events                 |                                               | \$ 24,000.00      | \$ 36,500.00             | \$ 22,500.00              | \$ -                | \$ 10,000.00                       |                                         |
|                           | 114-Lampo                  |                                               | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               |                                         |
|                           | 115-Development            |                                               | \$ 116,932.00     | \$ 366,578.00            | \$ 50,000.00              | \$ -                | \$ (199,646.00)                    |                                         |
|                           | 118-Recycle Center         |                                               | \$ 142,261.00     | \$ 174,710.00            | \$ -                      | \$ 65,261.00        | \$ (97,710.00)                     |                                         |
|                           | 120-Police                 |                                               | \$ 378,602.00     | \$ 3,233,497.00          | \$ 1,237,547.00           | \$ 132,310.00       | \$ (1,749,658.00)                  |                                         |
|                           | 125-Municipal Court        |                                               | \$ 17,400.00      | \$ 178,011.00            | \$ -                      | \$ -                | \$ (160,611.00)                    |                                         |
|                           | 141-IT                     |                                               | \$ -              | \$ 103,914.00            | \$ -                      | \$ -                | \$ (103,914.00)                    |                                         |
|                           | 143-Fleet Mtce             |                                               | \$ -              | \$ 19,300.00             | \$ -                      | \$ -                | \$ (19,300.00)                     |                                         |
|                           | 144-Emergency Mgmt         |                                               | \$ -              | \$ 20,144.00             | \$ 20,144.00              | \$ -                | \$ -                               |                                         |
|                           | 145-HR                     |                                               | \$ -              | \$ 97,700.00             | \$ -                      | \$ -                | \$ (97,700.00)                     |                                         |
|                           | 160-Airport                |                                               | \$ 854,320.00     | \$ 292,681.00            | \$ 5,660.00               | \$ 754,000.00       | \$ (186,701.00)                    |                                         |
|                           | 199-Public Safety          | 360,917.33                                    | \$ 1,601,225.00   | \$ -                     | \$ -                      | \$ 2,144,454.00     | \$ (543,229.00)                    | \$ (182,311.67)                         |
|                           | 204-Cemetery               |                                               | \$ 35,500.00      | \$ 160,732.00            | \$ -                      | \$ 39,000.00        | \$ (164,232.00)                    |                                         |
| Fire Department           | 130- Fire                  | \$ 803,877.36                                 | \$ 976,309.00     | \$ 2,250,537.00          | \$ 1,521,690.00           | \$ 484,985.00       | \$ (237,523.00)                    | \$ 566,354.36                           |
| Drainage Sales Tax        | 170-Drainage               | \$ 1,391,767.86                               | \$ 7,626,904.00   | \$ 147,997.00            | \$ -                      | \$ 7,703,160.00     | \$ (224,253.00)                    | \$ 1,167,514.86                         |
| Senior Center             | 175 Senior Center          | \$ 296,602.69                                 | \$ 176,750.00     | \$ 69,724.00             | \$ -                      | \$ 78,680.00        | \$ 28,346.00                       | \$ 324,948.69                           |
| Parks and Recreation      | 180-Parks & Recreation     | \$ 509,083.76                                 | \$ 840,468.00     | \$ 580,237.00            | \$ 743,380.00             | \$ 1,054,182.00     | \$ (50,571.00)                     | \$ 458,512.76                           |
| Auditorium/Lampo          | 195-Auditorium             | \$ 1,284,905.94                               | \$ 577,222.00     | \$ 214,057.00            | \$ -                      | \$ 298,718.00       | \$ 64,447.00                       | \$ 1,349,352.94                         |
| Capital Improvement       | 300-Capital Improvement    | \$ 324,603.99                                 | \$ 350,173.00     | \$ 11,230,058.00         | \$ 11,230,058.00          | \$ 441,738.00       | \$ (91,565.00)                     | \$ 233,038.99                           |
| Hotel/Motel               | 310-Hotel/Motel            | \$ 267,687.94                                 | \$ 104,309.00     | \$ 69,120.00             | \$ -                      | \$ 25,360.00        | \$ 9,829.00                        | \$ 277,516.94                           |
| TIF                       | 360-TIF                    | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Golf Course               | 450- Golf Course           | \$ 275,769.20                                 | \$ 575,000.00     | \$ 615,689.00            | \$ 541,738.00             | \$ 541,738.00       | \$ (40,689.00)                     | \$ 235,080.20                           |
| Abbott Brothers Trust     | 700-Abbott Brothers Trust  | \$ 48,812.92                                  | \$ 4,149.00       | \$ 811.00                | \$ -                      | \$ -                | \$ 3,338.00                        | \$ 52,150.92                            |
| Morse Park Trust          | 710- Morse Park Trust      | \$ 3,781.48                                   | \$ 113.00         | \$ -                     | \$ -                      | \$ -                | \$ 113.00                          | \$ 3,894.48                             |
| Street Sales Tax          | 800-Street Department      | \$ 2,108,681.43                               | \$ 1,592,870.00   | \$ 1,664,838.00          | \$ -                      | \$ 235,160.00       | \$ (307,128.00)                    | \$ 1,801,553.43                         |
| Street /Bridge            | 900-Street Bridge          | \$ 1,122,175.76                               | \$ 359,502.00     | \$ 1,000,000.00          | \$ -                      | \$ 239,604.00       | \$ (880,102.00)                    | \$ 242,073.76                           |
| Police Grants             | 120- Police Grants         | \$ 10,338.00                                  | \$ 16,042.00      | \$ 17,905.00             | \$ 2,310.00               | \$ -                | \$ 447.00                          | \$ 10,785.00                            |
| Police Donations          | 124-Police Donation        | \$ 1,376.00                                   | \$ 17,600.00      | \$ 17,500.00             | \$ -                      | \$ -                | \$ 100.00                          | \$ 1,476.00                             |
| D.A.R.E Program           | 126-D.A.R.E.               | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2012               | 212-2012 Series            | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2013               | 213-2013 Series            | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2014               | 214-2014 Series            | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2016               | 216-2016 Series            | \$ 314,375.54                                 | \$ -              | \$ 246,250.00            | \$ 241,738.00             | \$ -                | \$ (4,512.00)                      | \$ 309,863.54                           |
| Series 2021               | 221-2021 Series            | \$ 3,117.51                                   | \$ -              | \$ 506,401.00            | \$ 884,400.00             | \$ -                | \$ 377,999.00                      | \$ 381,116.51                           |
| Employee Health Insurance | 290-Employee Health Insura | \$ 149,545.17                                 | \$ 1,112,018.00   | \$ 1,111,918.00          | \$ -                      | \$ -                | \$ 100.00                          | \$ 149,645.17                           |
| Water/Wastewater          | 500-Water Wastewater       | \$ 6,764,848.70                               | \$ 8,843,475.00   | \$ 9,354,587.00          | \$ 3,339,864.00           | \$ 3,117,229.00     | \$ (288,477.00)                    | \$ 6,476,371.70                         |
|                           |                            |                                               |                   |                          |                           |                     | \$ -                               | \$ -                                    |
| Totals                    |                            | \$ 24,788,295.82                              | \$ 31,659,770.00  | \$ 34,530,397.00         | \$ 19,863,889.00          | \$ 19,486,491.00    | \$ (2,493,229.00)                  | \$ 22,295,066.82                        |

## FTE's Budgeted

|                          | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 | FY2025 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| General Admin            | 4.50   | 4.50   | 4.17   | 5.75   | 4.67   | 4.69   | 5.19   | 5.19   |
| City Clerk ****          | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 0.80   | 0.80   | 0.84   |
| Communcations and Events | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Lampo                    | 0.25   | 0.25   | 0.25   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Development Services     | 3.00   | 2.00   | 2.00   | 3.00   | 3.00   | 3.00   | 4.00   | 4.00   |
| Recycle Center           | 2.00   | 2.00   | 2.00   | 2.00   | 2.00   | 3.00   | 3.00   | 3.00   |
| Police                   | 28.00  | 29.00  | 29.00  | 29.00  | 29.00  | 29.00  | 25.00  | 25.00  |
| Municipal Court          | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   |
| IT                       | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| Fleet Maintenance        | 1.00   | 1.00   | 1.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| HR                       | 2.00   | 2.00   | 2.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| Airport                  | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| I.O.O.F. Cemetery        | -      | -      | 0.00   | 0.00   | 0.00   | 0.20   | 0.20   | 0.16   |
| Fire**                   | 28.00  | 28.00  | 27.00  | 27.00  | 27.00  | 27.00  | 27.00  | 27.00  |
| Drainage                 | 2.00   | 2.00   | 2.00   | 2.00   | 2.00   | 2.00   | 1.00   | 1.00   |
| Parks                    | 5.00   | 6.00   | 7.25   | 7.50   | 7.00   | 7.00   | 6.00   | 6.00   |
| Parks Recreation         | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Street                   | 7.00   | 8.00   | 8.00   | 8.00   | 8.00   | 8.00   | 9.00   | 9.00   |
| Golf Course*             | 3.00   | 4.00   | 4.00   | 3.00   | 3.05   | 4.00   | 4.00   | 0.00   |
| Auditorium               | 0.25   | 0.25   | 0.38   | 0.38   | 0.63   | 0.65   | 1.15   | 1.15   |
| Senior Center            | 1.25   | 1.25   | 0.15   | 0.15   | 0.15   | 0.16   | 0.16   | 0.16   |
| Capital Improvement      | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Water Admin              | 5.75   | 5.75   | 5.75   | 5.75   | 6.50   | 6.50   | 6.50   | 6.50   |
| Wastewater***            | 0.00   | 0.00   | 1.00   | 1.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Meter Replacement        | 4.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   |
| D&M                      | 7.00   | 7.00   | 8.00   | 9.00   | 9.00   | 9.00   | 9.00   | 9.00   |
| Filtration***            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Totals                   | 110    | 112    | 113    | 114    | 112    | 114    | 111    | 107    |

\* City contracted Golf Course March 2024

\*\*2011 started out with 18 Fire. In May of 2011, the City received the SAFER grant allowing 9 more to be hired.

\*\*\*In FY16 the City contracted Alliance Water Resources for Wastewater and Filtration

\*\*\*\* In FY2023 Allocated City Clerk with Cemetery

## General Admin

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

This office conducts the overall administration of the City (as prescribed by the Neosho City Charter and Missouri Revised State Statutes), coordinates the activities of the City, and carries out all policies and actions of the the City Council. The Manager informs and advises Council on matters of concern to the City. The Manager coordinates the activities of all departments. Funding sources include a 1% sales tax, property tax, license & permit fees, charges for services, and fines & forfeitures.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 4,904,455.56        | 4,396,949.00          | 3,758,084.79               | 4,419,284.00           |
| Intergovernmental    | -                   | -                     | -                          | 132,000.00             |
| Licenses & Permits   | 52,287.72           | 54,794.00             | 34,888.89                  | 40,342.00              |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 654,701.30          | 450,706.00            | 517,429.00                 | 725,000.00             |
| Other Sources        | (3,624.00)          | 22,860.00             | 17,154.00                  | 22,860.00              |
| <b>Total</b>         | <b>5,607,820.58</b> | <b>4,925,309.00</b>   | <b>4,327,556.68</b>        | <b>5,339,486.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 339,150.16          | 370,684.00            | 279,895.03                 | 387,926.00             |
| Supplies & Materials          | 31,362.55           | 15,340.00             | 11,093.54                  | 15,600.00              |
| Maintenance & Repair          | 4,948.03            | 22,575.00             | 4,991.02                   | 27,575.00              |
| Contractual Services          | 74,093.41           | 153,259.00            | 79,976.86                  | 153,092.00             |
| Utilities                     | 41,686.14           | 46,165.01             | 29,222.35                  | 38,355.00              |
| Other Expenses                | 2,214.78            | 2,398.00              | 1,824.88                   | 2,908.00               |
| Capital                       | 43,243.40           | -                     | -                          | -                      |
| Other Uses                    | 1,951,129.68        | 2,530,802.00          | 833,422.67                 | 2,124,412.00           |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>2,487,828.15</b> | <b>3,141,223.01</b>   | <b>1,240,426.35</b>        | <b>2,749,868.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Membership Training/Travel** - Increase for need

**Facility Maintenance-** Increase \$5,000 for repairs

**Capital:** City Hall Exterior Façade and HVAC \$450,000

**Computer Software-**Increase for license upgrades

**Heating Fuels-**Increase for need

#### Decreases:

**Cigarette Tax-** Decreased for Historical Actuals

**Occupational Licenses-** Decrease for Contractors and Solicitor Peddler fees

|                           | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|---------------------------|---------------|-----------------------|-----------------------|------------------------|
| <b>Staffing Levels</b>    |               |                       |                       |                        |
| City Manager              | 1             | 1                     | 1                     | 1                      |
| City Attorney             | 1             | 1                     | 1                     | 1                      |
| City Prosecutor           | 1             | 1                     | 1                     | 1                      |
| Facility Maintenance      | 0             | 0                     | 0                     | 0                      |
| Administrative Assistance | 1.5           | 1.5                   | 1.5                   | 1.5                    |
| License Clerk             | 0             | 0                     | 0                     | 0                      |
| Event Coordinator         | 0             | 0.5                   | 0.5                   | 0.5                    |
| Custodian                 | 0.17          | 0.19                  | 0.19                  | 0.19                   |
| <b>DEPARTMENT TOTAL</b>   | <b>4.67</b>   | <b>5.19</b>           | <b>5.19</b>           | <b>5.19</b>            |

|               |
|---------------|
| General Admin |
|---------------|

| Account                                  | Account Name                   | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|------------------------------------------|--------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| General Admin Revenues                   |                                |                        |                        |                              |                               |                              |
| 100-110-4010-110                         | Property Tax                   | 498,449.98             | 475,000.00             | 554,920.01                   | 554,920.01                    | 479,750.00                   |
| 100-110-4020-110                         | Financial Institution Tax      | 81.79                  | 300.00                 | 245.55                       | 245.55                        | 300.00                       |
| 100-110-4030-110                         | 1-Cent City Sales Tax          | 3,484,768.21           | 3,092,449.00           | 2,544,350.60                 | 3,392,467.47                  | 3,092,449.00                 |
| 100-110-4050-110                         | Cigarette Tax                  | 48,535.08              | 54,200.00              | 33,021.68                    | 44,028.91                     | 48,535.00                    |
| 100-110-4100-110                         | Occupation Licenses            | 52,287.72              | 54,794.00              | 34,888.89                    | 46,518.52                     | 40,342.00                    |
| 100-110-4130-110                         | Franchises                     | 872,620.50             | 775,000.00             | 625,546.95                   | 872,620.50                    | 798,250.00                   |
| 100-110-4200-110                         | Grant Revenue                  | -                      | -                      | -                            | -                             | 132,000.00                   |
| 100-110-4700-110                         | Interest Earned-General Fund   | 32,425.73              | 12,500.00              | 182,715.38                   | 243,620.51                    | 725,000.00                   |
| 100-110-4760-110                         | Insurance Proceeds             | -                      | -                      | -                            | -                             | -                            |
| 100-110-4790-110                         | Judgments                      | 619,672.20             | -                      | -                            | -                             | -                            |
| 100-110-4800-110                         | General Admin Miscellaneous    | 1,439.27               | 238,206.00             | 238,206.07                   | 317,608.09                    | -                            |
| 100-110-4820-110                         | General Admin Sale of Property | 1,164.10               | -                      | -                            | -                             | -                            |
| 100-110-4990-110                         | General Admin Donations        | -                      | -                      | -                            | -                             | -                            |
| 100-110-4031-110                         | 3% Recreational 420 Sales Tax  | -                      | 200,000.00             | 96,507.55                    | 128,676.73                    | -                            |
| <b>Total General Admin Revenues</b>      |                                | <b>\$ 5,611,444.58</b> | <b>\$ 4,902,449.00</b> | <b>\$ 4,310,402.68</b>       | <b>\$ 5,600,706.29</b>        | <b>\$ 5,316,626.00</b>       |
| General Admin Expenditures               |                                |                        |                        |                              |                               |                              |
| 100-110-5010-110                         | General Admin Salaries         | 251,921.40             | 267,428.00             | 208,320.39                   | 277,760.52                    | 274,640.00                   |
| 100-110-5020-110                         | General Admin Overtime         | 1,986.87               | 2,000.00               | 1,160.04                     | 1,546.72                      | 2,000.00                     |
| 100-110-5040-110                         | Acting City Mgr Per Diem       | 2,850.00               | 4,500.00               | 300.00                       | 400.00                        | 4,500.00                     |
| 100-110-5070-110                         | Availability Allowance         | -                      | -                      | -                            | -                             | -                            |
| 100-110-5170-110                         | General Admin Social Security  | 18,256.49              | 20,956.00              | 14,823.90                    | 19,765.20                     | 21,508.00                    |
| 100-110-5180-110                         | General Admin Retirement       | 13,448.92              | 13,697.00              | 9,440.30                     | 12,587.07                     | 16,869.00                    |
| 100-110-5190-110                         | General Admin Health Insurance | 30,048.29              | 39,199.00              | 27,743.57                    | 36,991.43                     | 40,455.00                    |
| 100-110-5210-110                         | General Admin Workers Comp.    | 11,123.68              | 11,999.00              | 11,074.98                    | 14,766.64                     | 12,314.00                    |
| 100-110-5260-110                         | General Admin Prof. Service    | 52,209.93              | 115,712.00             | 45,562.94                    | 60,750.59                     | 117,154.00                   |
| 100-110-5271-110                         | Master Bank Acct Fees          | 607.76                 | 1,000.00               | -                            | -                             | -                            |
| 100-110-5272-110                         | Investment Acct. Bank Fees     | 1,196.76               | 1,200.00               | -                            | -                             | -                            |
| 100-110-5290-110                         | County Collector Fees          | 17,811.09              | 19,000.00              | 19,411.60                    | 19,000.00                     | 19,190.00                    |
| 100-110-5300-110                         | General Admin Ins. & Bonds     | 2,267.87               | 16,347.00              | 15,002.32                    | 20,003.09                     | 16,748.00                    |
| 100-110-5330-110                         | General Admin Equipment Main   | 1,310.85               | 7,575.00               | 241.76                       | 322.35                        | 7,575.00                     |
| 100-110-5360-110                         | General Admin Memb/Train/Trv   | 1,599.75               | 2,905.00               | 1,133.85                     | 1,511.80                      | 7,405.00                     |
| 100-110-5380-110                         | Uniforms                       | -                      | -                      | -                            | -                             | 235.00                       |
| 100-110-5530-110                         | General Admin Fuels/Lubricants | 945.71                 | 525.00                 | 716.28                       | 955.04                        | 525.00                       |
| 100-110-5590-110                         | General Admin Gen. Supplies    | 31,362.55              | 15,340.00              | 11,093.54                    | 14,791.39                     | 15,600.00                    |
| 100-110-5700-110                         | General Admin Comp., Software  | 1,269.07               | 1,873.00               | 1,108.60                     | 1,478.13                      | 2,383.00                     |
| 100-999-5200-112                         | Unemployment Compensation      | 7,914.76               | 8,000.00               | 5,898.00                     | 7,864.00                      | 8,000.00                     |
| 100-999-5320-112                         | City Hall Facility Maintenance | 3,637.18               | 15,000.00              | 4,749.26                     | 6,332.35                      | 20,000.00                    |
| 100-999-5790-112                         | City Hall Capital              | 43,243.40              | -                      | -                            | -                             | -                            |
| 100-999-6300-112                         | City Hall Electricity          | 15,661.46              | 18,156.01              | 7,485.22                     | 9,980.29                      | 15,662.00                    |
| 100-999-6310-112                         | City Hall Heating Fuels        | 4,075.27               | 4,699.00               | 6,327.04                     | 8,436.05                      | 8,000.00                     |
| 100-999-6350-112                         | City Hall Phones               | 21,949.41              | 23,310.00              | 15,410.09                    | 20,546.79                     | 14,693.00                    |
| <b>Total General Admin Expenditures</b>  |                                | <b>\$ 536,698.47</b>   | <b>\$ 610,421.01</b>   | <b>\$ 407,003.68</b>         | <b>\$ 535,789.44</b>          | <b>\$ 625,456.00</b>         |
| General Admin Other Sources              |                                |                        |                        |                              |                               |                              |
| 100-000-3310-000                         | Transfer fm Hotel/Motel Admin  | 2,832.00               | 2,860.00               | 2,151.00                     | 2,868.00                      | 2,860.00                     |
| 100-000-3306-000                         | Transfer fm ARPA Investment    | (6,456.00)             | -                      | -                            | -                             | -                            |
| 100-000-3305-110                         | Transfer fm Public Safety      | -                      | 20,000.00              | 15,003.00                    | 20,004.00                     | 20,000.00                    |
| <b>Total General Admin Other Sources</b> |                                | <b>\$ (3,624.00)</b>   | <b>\$ 22,860.00</b>    | <b>\$ 17,154.00</b>          | <b>\$ 22,872.00</b>           | <b>\$ 22,860.00</b>          |

|               |
|---------------|
| General Admin |
|---------------|

| Account                                                   | Account Name                 | FY2023<br>Actual        | FY2024<br>Budget        | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|------------------------------|-------------------------|-------------------------|------------------------------|-------------------------------|------------------------------|
| Account                                                   | Account Name                 | FY2023<br>Actual        | FY2024<br>Budget        | 6/30/2024<br>Actual          | FY2024<br>Actual              | FY2025<br>Budget             |
| General Admin Other Uses                                  |                              |                         |                         |                              |                               |                              |
| 100-000-3200-000                                          | Sales Tax to TIF             | -                       | -                       | -                            | -                             | -                            |
| 100-000-3202-000                                          | Transfer to Other Funds      | (21,092.21)             | -                       | -                            | -                             | -                            |
| 100-000-3203-000                                          | Transfer to Senior Center    | -                       | -                       | -                            | -                             | -                            |
| 100-000-3206-000                                          | Transfer to ARPA             | 14,741.89               | 307,307.00              | 62,222.67                    | 307,307.00                    | 222,635.00                   |
| 100-000-3206-170                                          | Transfer to Drainage         | -                       | 1,129,114.00            | -                            | 1,129,114.00                  | -                            |
| 100-000-3230-000                                          | Transfer to Fire fm General  | 1,292,316.00            | 714,751.00              | 536,067.00                   | 714,751.00                    | 654,927.00                   |
| 100-000-3240-000                                          | Transfer to GC fm General    | 194,664.00              | 120,000.00              | -                            | 120,000.00                    | 100,000.00                   |
| 100-000-3243-000                                          | Transfer to Parks Department | 470,500.00              | 50,000.00               | 37,503.00                    | 50,000.00                     | 676,850.00                   |
| 100-000-3285-112                                          | Trns to Capital Improvement  | -                       | 209,630.00              | 197,630.00                   | 209,630.00                    | 470,000.00                   |
| 100-000-3285-680                                          | Transfer to CDBG             | -                       | -                       | -                            | -                             | -                            |
| <b>Total General Admin Other Uses</b>                     |                              | <b>\$ 1,951,129.68</b>  | <b>\$ 2,530,802.00</b>  | <b>\$ 833,422.67</b>         | <b>\$ 2,530,802.00</b>        | <b>\$ 2,124,412.00</b>       |
|                                                           |                              |                         |                         |                              |                               |                              |
| Change in Fund Balance                                    |                              | 1,444,319.63            | (849,482.01)            | 1,511,882.58                 | 705,199.93                    | (903,128.00)                 |
| Change in Fund Balance without Public Safety              |                              | 956,319.85              | (1,080,501.01)          | 1,616,208.08                 | 344,282.60                    | (359,899.00)                 |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>General Admin Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 6,957,425.00</b>  | <b>\$ 8,401,744.63</b>  | <b>\$ 8,401,744.63</b>       | <b>\$ 8,401,744.63</b>        | <b>\$ 9,106,944.56</b>       |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>Total General Admin Funding Sources</b>                |                              | <b>\$ 16,066,390.63</b> | <b>\$ 17,036,126.63</b> | <b>\$ 16,078,127.57</b>      | <b>\$ 17,929,707.99</b>       | <b>\$ 18,952,521.56</b>      |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>Total General Admin Funding Uses</b>                   |                              | <b>\$ 7,664,646.00</b>  | <b>\$ 9,483,864.01</b>  | <b>\$ 6,164,500.36</b>       | <b>\$ 8,822,763.43</b>        | <b>\$ 10,748,705.00</b>      |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>General Admin Beginning Fund Balance"September 30"</b> |                              | <b>\$ 8,401,744.63</b>  | <b>\$ 7,552,262.62</b>  | <b>\$ 9,913,627.21</b>       | <b>\$ 9,106,944.56</b>        | <b>\$ 8,203,816.56</b>       |
|                                                           |                              |                         |                         |                              |                               |                              |
| Public Safety Fund                                        |                              | 1,313,277.47            | 1,544,296.47            | 1,208,951.97                 | 1,674,194.80                  | 1,130,965.80                 |
| IOOF Trust                                                |                              | 154,680.59              | 154,680.59              | 161,642.90                   | 161,642.90                    | 161,642.90                   |
|                                                           |                              |                         |                         |                              |                               |                              |
| Total Restricted Funds                                    |                              | 1,467,958.06            | 1,698,977.06            | 1,370,594.87                 | 1,835,837.70                  | 1,292,608.70                 |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>Unrestricted Funds</b>                                 |                              | <b>6,933,786.57</b>     | <b>5,853,285.56</b>     | <b>8,543,032.34</b>          | <b>7,271,106.86</b>           | <b>6,911,207.86</b>          |

|                                |                        |
|--------------------------------|------------------------|
| -----<br><b>90-Day Reserve</b> | <b>\$ 1,339,586.63</b> |
|--------------------------------|------------------------|

|              |        |
|--------------|--------|
| Days reserve | 551.17 |
|--------------|--------|



| General & Non-Departmental |          |
|----------------------------|----------|
| Health Insurance Rate      | 7,794.72 |
| Work Comp Rate             | 4.38%    |
| Retirement Rate            | 6.00%    |

-1591.75  
(170,317.25)

Payroll Detail

| FTE                   | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|-----------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Kennedy, David        | 1    | 102,742.64 | \$ 105,824.92      |                       |                           | 8096               | 6,350.00   | 7,795.00  | 4636         | \$ 132,701.92              |
| Snyder, Derek         | 1    | 51,738.18  | \$ 53,290.33       |                       |                           | 4077               | 3,198.00   |           | 2335         | \$ 62,900.33               |
| Tomlinson, Nancy(.50) | 0.5  | 21,511.62  | \$ 22,156.97       |                       |                           | 1696               | 1,330.00   | 3,897.50  | 971          | \$ 30,051.47               |
| Jackson, Mary         | 1    | 37,022.44  | \$ 38,133.11       |                       |                           | 2918               | 2,288.00   | 7,795.00  | 1671         | \$ 52,805.11               |
| Weston, Deanna(.19)   | 0.19 | 6,817.20   | \$ 7,021.72        |                       |                           | 538                | 422.00     | 1,481.00  | 308          | \$ 9,770.72                |
| Sims, David           | 1    | 26,994.24  | \$ 26,994.24       |                       |                           | 2066               | 1,620.00   | 7,990.36  | 1183         | \$ 39,853.60               |
| Johnson, Jessica      | 0.5  | 20,600.06  | \$ 21,218.06       |                       |                           | 1624               | 1,274.00   | 3,898.00  | 930          | \$ 28,944.06               |
|                       | 5.19 | 267,426.38 | 274,639.34         | -                     | -                         | 21,015.00          | 16,482.00  | 32,856.86 | 12,034.00    | \$ 357,027.20              |

|                         |            |            |
|-------------------------|------------|------------|
| Overtime                | 1,546.72   | 2,000.00   |
| ActingCity Mgr Per Diem | 400.00     | 4,500.00   |
| Part Time & Seasonal    |            |            |
| Total Salaries          | 269,373.10 | 281,139.34 |

| Department Request                              |              |                                                         |
|-------------------------------------------------|--------------|---------------------------------------------------------|
| General & Non-Departmental Revenues             | Amount       | Justification & Supporting Information                  |
| 100-110-4010-110 Property Tax                   | 479,750.00   | Historical 1% growth                                    |
| 100-110-4020-110 Financial Institution Tax      | 300.00       | no change - no growth                                   |
| 100-110-4030-110 1-Cent City Sales Tax          | 3,092,449.00 |                                                         |
| 100-110-4050-110 Cigarette Tax                  | 48,535.00    | No growth                                               |
| 100-110-4100-110 Occupation Licenses            | 40,342.00    | Projection with new structure - does not include liquor |
| 100-110-4130-110 Franchises                     | 798,250.00   | Historical 3% growth                                    |
| 100-110-4200-110 Grant Revenue                  | 132,000.00   | Assumes 20% match EECBG window replacement City Hall    |
| 100-110-4700-110 Interest Earned-General Fund   | 725,000.00   | updated interest rate                                   |
| 100-110-4760-110 Insurance Proceeds             |              |                                                         |
| 100-110-4800-110 General Admin Miscellaneous    |              |                                                         |
| 100-110-4820-110 General Admin Sale of Property |              |                                                         |
|                                                 | 5,316,626.00 |                                                         |

| General & Non-Departmental Expenditures         | Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-110-5010-110 General Admin Salaries         | 274,640.00 |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5020-110 General Admin Overtime         | 2,000.00   |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5040-110 Acting City Mgr Per Diem       | 4,500.00   |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5070-110 Availability Allowance         | -          |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5170-110 General Admin Social Security  | 21,508.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5180-110 General Admin Retirement       | 16,869.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5190-110 General Admin Health Insurance | 40,455.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5210-110 General Admin Workers Comp.    | 12,314.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5260-110 General Admin Prof. Service    | 117,154.00 | Legal \$70,000, Audit \$17,500, Postage Machine \$4640, HSTCC \$4000, Stronghold \$4000, Advertising \$2600, Lexis Nexis \$1200, Copier Mtce \$1000, Pest Control \$600, Chamber Activities \$500, Window Cleaning \$644, Security monitoring \$1000, Fire Inspection \$250, AED Mtce, \$100, LEI Mtce \$100, ACH Fees \$20 |
| 100-110-5271-110 Master Bank Acct Fees          | -          | updated per agreement                                                                                                                                                                                                                                                                                                       |
| 100-110-5272-110 Investment Acct. Bank Fees     | -          | updated per agreement                                                                                                                                                                                                                                                                                                       |
| 100-110-5290-110 County Collector Fees          | 19,190.00  | 4% of receipts                                                                                                                                                                                                                                                                                                              |
| 100-110-5300-110 General Admin Ins. & Bonds     | 16,748.00  | Blanket Bond \$580, Property & Liability                                                                                                                                                                                                                                                                                    |
| 100-110-5330-110 General Admin Equipment Maint  | 7,575.00   |                                                                                                                                                                                                                                                                                                                             |

| General & Non-Departmental Expenditures |                                | Amount     | Justification & Supporting Information                                                                                                                                                                            |
|-----------------------------------------|--------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-110-5360-110                        | General Admin Memb/Train/Trvl  | 7,405.00   | Sam's Club \$150, Chamber Events \$500, CPR Training \$200, MO Municipal's attorney membership \$55, Attorney Seminar \$1000, MCMA Membership MCMA Conference \$1000, MML conference \$1500, PIO Training \$3,000 |
| 100-110-5380-110                        | Uniforms                       | 235.00     | Polo shirts                                                                                                                                                                                                       |
| 100-110-5530-110                        | General Admin Fuels/Lubricants | 525.00     |                                                                                                                                                                                                                   |
| 100-110-5590-110                        | General Admin Gen. Supplies    | 15,600.00  | Copy Paper \$2000, Postage \$2400, Cleaning & Sanitizing Supplies \$1500, Office Supplies \$9700                                                                                                                  |
| 100-110-5700-110                        | General Admin Comp., Software  | 2,383.00   | Firewall \$210, Office 365 \$950.10, Cyber software \$533.31, server license upgrade \$689.15                                                                                                                     |
| 100-999-5200-112                        | Unemployment Compensation      | 8,000.00   |                                                                                                                                                                                                                   |
| 100-999-5320-112                        | City Hall Facility Maintenance | 20,000.00  | Carpet & Flooring Cleaning \$4,000, Seal parking lot and alley                                                                                                                                                    |
| 100-999-6300-112                        | City Hall Electricity          | 15,662.00  |                                                                                                                                                                                                                   |
| 100-999-6310-112                        | City Hall Heating Fuels        | 8,000.00   |                                                                                                                                                                                                                   |
| 100-999-6350-112                        | City Hall Phones               | 14,693.00  | Go to \$3,825, Liberty \$10,868                                                                                                                                                                                   |
|                                         |                                | 625,456.00 |                                                                                                                                                                                                                   |

| General & Non-Departmental Other Sources |                               | Amount    | Justification & Supporting Information |
|------------------------------------------|-------------------------------|-----------|----------------------------------------|
| 100-000-3310-000                         | Transfer fm Hotel/Motel Admin | 2,860.00  |                                        |
| 100-000-3306-000                         | Transfer fm ARPA Investment   |           |                                        |
| 100-000-3305-110                         | Transfer fm Public Safety     | 20,000.00 |                                        |

| General & Non-Departmental Other Uses |                              | Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------|------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-000-3202-000                      | Transfer to Other Funds      |            |                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-000-3203-000                      | Transfer to Senior Center    |            |                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-000-3206-000                      | Transfer to ARPA             | 222,635.00 | ARPA Grant Bufflao Creek Lift Station                                                                                                                                                                                                                                                                                                                                            |
| 100-000-3206-170                      | Transfer to Drainage         | -          |                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-000-3230-000                      | Transfer to Fire fm General  | 654,927.00 | Additional 100,000 included to keep Fire at 90 days                                                                                                                                                                                                                                                                                                                              |
| 100-000-3240-000                      | Transfer to GC fm General    | 100,000.00 | debt, irrigation system \$300,000                                                                                                                                                                                                                                                                                                                                                |
| 100-000-3243-000                      | Transfer to Parks Department | 676,850.00 | Recreation-Pool \$46,350, Helicopter Maintenance \$5,000, Morse Park Field Lighting \$30,000, Christmas Lighting \$10,000, Asphalt two areas \$10,000, New Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architect Design Aquatic Center \$500,000, New ADA Bathroom and pavilion Scenic Park with parking and sidewalk \$225,000 split with Parks |
| 100-000-3285-112                      | Trns to Capital Improvement  | 470,000.00 | City Hall Façade, City Hall HVAC, Van replacement vehicle                                                                                                                                                                                                                                                                                                                        |
| 100-000-3285-680                      | Transfer to CDBG             |            |                                                                                                                                                                                                                                                                                                                                                                                  |

## City Clerk

Cheyenne Wright

City Clerk

[Cwright@neoshomo.org](mailto:Cwright@neoshomo.org)

This office provides administrative support for legislative services, records and information management, public information, and regulatory election services. Duties include preparation of agendas, meeting notices and minutes; maintenance of the City Code; administration of the appointment process to boards and commissions; maintenance and preservation of accurate Council records; oversight of the Records and Information Management Program; dissemination of public information; and the administration of elections. The Clerk handles all City insurance including property, liability, vehicle & airport policies. This involves implementation, renewals, claims processing as well as training, required conferences and ensuring annual audit requirements.

| Revenue Category     | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------|-----------------------|----------------------------|------------------------|
| Taxes                | -             | -                     | -                          | -                      |
| Intergovernmental    | -             | -                     | -                          | -                      |
| Licenses & Permits   | -             | -                     | -                          | -                      |
| Charges for Services | 134.40        | -                     | -                          | -                      |
| Fines & Forfeitures  | -             | -                     | -                          | -                      |
| Miscellaneous        | -             | -                     | -                          | -                      |
| Other Sources        | -             | -                     | -                          | -                      |
| <b>Total</b>         | <b>134.40</b> | -                     | -                          | -                      |
|                      | \$ -          | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 73,573.05         | 82,582.00             | 62,046.27                  | 86,696.00              |
| Supplies & Materials          | 714.61            | 966.00                | 394.11                     | 1,020.00               |
| Maintenance & Repair          | -                 | -                     | -                          | -                      |
| Contractual Services          | 14,109.36         | 28,010.00             | 21,303.69                  | 34,701.00              |
| Utilities                     | -                 | -                     | -                          | -                      |
| Other Expenses                | 18,407.49         | 819.00                | 617.86                     | 1,128.00               |
| Capital                       | 4,051.96          | 52,233.00             | 52,331.42                  | 6,500.00               |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>110,856.47</b> | <b>164,610.00</b>     | <b>136,693.35</b>          | <b>130,045.00</b>      |
|                               | \$ 0.00           | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Computer Software**-Increase for license upgrades

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| City Clerk              |               | 0.8                   | 0.84                  | 0.84                   |
| <b>DEPARTMENT TOTAL</b> |               | <b>0.8</b>            | <b>0.84</b>           | <b>0.84</b>            |

City Clerk

| Account                                      | Account Name                | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-----------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| City Clerk Revenues                          |                             |                      |                      |                              |                               |                              |
| 100-111-4800-111                             | City Clerk Miscellaneous    | 134.40               | -                    | -                            | -                             | -                            |
| <b>Total City Clerk Revenues</b>             |                             | <b>\$ 134.40</b>     | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| City Clerk Expenditures                      |                             |                      |                      |                              |                               |                              |
| 100-111-5010-111                             | Clerk Salaries              | 50,609.69            | 54,387.00            | 41,455.57                    | 55,274.09                     | 56,318.00                    |
| 100-111-5030-111                             | Clerk Part Time             | 1,785.00             | 2,100.00             | 1,265.00                     | 1,686.67                      | 2,100.00                     |
| 100-111-5170-111                             | Clerk Social Security       | 3,710.60             | 4,322.00             | 2,984.85                     | 3,979.80                      | 4,469.00                     |
| 100-111-5180-111                             | Clerk Retirement            | 2,667.57             | 2,720.00             | 2,072.82                     | 2,763.76                      | 3,380.00                     |
| 100-111-5190-111                             | Clerk Health Insurance      | 6,492.27             | 6,043.00             | 5,196.60                     | 6,928.80                      | 6,585.00                     |
| 100-111-5210-111                             | Clerk Workers Compensation  | 1,970.02             | 2,475.00             | 2,743.69                     | 3,658.25                      | 2,559.00                     |
| 100-111-5260-111                             | Clerk Professional Services | 11,135.58            | 17,360.00            | 13,914.41                    | 18,552.55                     | 24,051.00                    |
| 100-111-5300-111                             | Clerk Insurance & Bonds     | 377.00               | 650.00               | 680.00                       | 906.67                        | 650.00                       |
| 100-111-5360-111                             | Clerk Member/Train/Trvl     | 6,337.90             | 10,535.00            | 6,327.74                     | 8,436.99                      | 11,285.00                    |
| 100-111-5430-111                             | Clerk Elections             | 2,596.78             | 10,000.00            | 6,709.28                     | 8,945.71                      | 10,000.00                    |
| 100-111-5590-111                             | Clerk General Supplies      | 714.61               | 966.00               | 394.11                       | 525.48                        | 1,020.00                     |
| 100-111-5700-111                             | Clerk Comp., Software       | 18,407.49            | 819.00               | 617.86                       | 823.81                        | 1,128.00                     |
| <b>Total City Clerk Expenditures</b>         |                             | <b>\$ 106,804.51</b> | <b>\$ 112,377.00</b> | <b>\$ 84,361.93</b>          | <b>\$ 112,482.57</b>          | <b>\$ 123,545.00</b>         |
| City Clerk Other Sources                     |                             |                      |                      |                              |                               | -                            |
| <b>Total City Clerk Other Sources</b>        |                             | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| City Clerk Other Uses                        |                             |                      |                      |                              |                               |                              |
| 100-000-3285-111                             | Transfer to Capital         | 4,051.96             | 52,233.00            | 52,331.42                    | 52,233.00                     | 6,500.00                     |
| <b>Total City Clerk Other Uses</b>           |                             | <b>\$ 4,051.96</b>   | <b>\$ 52,233.00</b>  | <b>\$ 52,331.42</b>          | <b>\$ 52,233.00</b>           | <b>\$ 6,500.00</b>           |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                             | (110,722.07)         | (164,610.00)         | (136,693.35)                 | (164,715.57)                  | (130,045.00)                 |

| City Clerk and Council |          |
|------------------------|----------|
| Health Insurance Rate  | 7,794.72 |
| Work Comp Rate         | 4.38%    |
| Retirement Rate        | 6.00%    |

Payroll Detail

| FTE              | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Wright, Cheyenne | 84%  | 54,386.14 | \$ 56,317.72       |                       |                           | 4,309.00           | 3,380.00   | 6,668.72  | 2,467.00     | \$ 73,142.45               |
|                  | 0.84 | 54,386.14 | 56,317.72          |                       | -                         | 4,309.00           | 3,380.00   | 6,668.72  | 2,467.00     | \$ 73,142.45               |

|             |  |          |
|-------------|--|----------|
| Council Pay |  | 2,100.00 |
|-------------|--|----------|

|                |           |           |
|----------------|-----------|-----------|
| Total Salaries | 54,386.14 | 58,417.72 |
|----------------|-----------|-----------|

| Department Request                        |        |                                        |
|-------------------------------------------|--------|----------------------------------------|
| City Clerk and Council Revenues           | Amount | Justification & Supporting Information |
| 100-111-4800-111 City Clerk Miscellaneous |        | -                                      |

| City Clerk and Council Expenditures          | Amount     | Justification & Supporting Information                                                                                                                                                                                                                                            |
|----------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-111-5010-111 Clerk Salaries              | 56,318.00  |                                                                                                                                                                                                                                                                                   |
| 100-111-5030-111 Clerk Part Time             | 2,100.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5170-111 Clerk Social Security       | 4,469.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5180-111 Clerk Retirement            | 3,380.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5190-111 Clerk Health Insurance      | 6,585.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5210-111 Clerk Workers Compensation  | 2,559.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5260-111 Clerk Professional Services | 24,051.00  | General Code \$3,500; Stronghold Microsoft Office Contract \$535; Laserfiche \$300; Council Pictures-Name Plates \$300, civic Clerk \$16346, DocuSign \$2800, Laserfiche \$270                                                                                                    |
| 100-111-5300-111 Clerk Insurance & Bonds     | 650.00     | bonds only (Includes City Blanket Bond)                                                                                                                                                                                                                                           |
| 100-111-5360-111 Clerk Member/Train/Trvl     | 11,285.00  | \$1600 MOCCFOA Spring Conference; \$1200 MIRMA Annual Conference; MML Elected Officials Conf. \$3000; MML September Conference \$1500; City MML Account \$1300; MOCCFOA Dues \$35; SWMOCCFOA Dues \$25; IIMC Membership \$175; City Clerk Trainings \$500; IIMC Conference \$1950 |
| 100-111-5430-111 Clerk Elections             | 10,000.00  |                                                                                                                                                                                                                                                                                   |
| 100-111-5590-111 Clerk General Supplies      | 1,020.00   | Toner \$646; Postage \$220; Council Frames \$200                                                                                                                                                                                                                                  |
| 100-111-5700-111 Clerk Comp., Software       | 1,128.00   | Adobe License Renewal \$204, Firewall \$210, Office 365 \$237.53, Cyber software \$133.33, server license upgrade \$295.35, Polo shirts \$47                                                                                                                                      |
|                                              | 123,545.00 |                                                                                                                                                                                                                                                                                   |

| City Clerk and Council Other Sources | Amount | Justification & Supporting Information |
|--------------------------------------|--------|----------------------------------------|
|                                      |        |                                        |

| City Clerk and Council Other Uses    | Amount   | Justification & Supporting Information |
|--------------------------------------|----------|----------------------------------------|
| 100-000-3285-111 Transfer to Capital | 6,500.00 | E-Code 360 hyperlink code updates      |

## Communications & Events

Richard Leavens  
Development Services Director  
[rlavens@neoshomo.org](mailto:rlavens@neoshomo.org)

This office serves to provide public awareness of all information and events within the City while keeping City Official's best intentions at the forefront of all marketing efforts. The marketing and information distributed is provided to further enhance the quality of life in Neosho. This office is also responsible for coordinating city-sponsored events; booking City facilities; and managing the website and social media.

| Revenue              | FY2023           | FY2024           | FY2024           | FY2025           |
|----------------------|------------------|------------------|------------------|------------------|
| Category             | Actual           | Adopted          | Current YTD      | Proposed         |
| Category             | Actual           | Budget           | Actuals          | Budget           |
| Taxes                | -                | -                | -                | -                |
| Intergovernmental    | -                | -                | -                | -                |
| Licenses & Permits   | -                | -                | -                | -                |
| Charges for Services | 29,032.75        | 24,000.00        | 23,857.00        | 24,000.00        |
| Fines & Forfeitures  | -                | -                | -                | -                |
| Miscellaneous        | -                | -                | -                | -                |
| Other Sources        | 30,000.00        | 32,500.00        | 32,500.00        | 22,500.00        |
| <b>Total</b>         | <b>59,032.75</b> | <b>56,500.00</b> | <b>56,357.00</b> | <b>46,500.00</b> |
|                      | \$ -             | \$ -             | \$ -             | \$ -             |

| Expense                       | FY2023           | FY2024           | FY2024           | FY2025           |
|-------------------------------|------------------|------------------|------------------|------------------|
| Category                      | Actual           | Adopted          | Current YTD      | Proposed         |
| Category                      | Actual           | Budget           | Actuals          | Budget           |
| Salaries, Benefits, & Support | -                | -                | -                | -                |
| Supplies & Materials          | -                | -                | -                | -                |
| Maintenance & Repair          | -                | -                | -                | -                |
| Contractual Services          | -                | -                | -                | -                |
| Utilities                     | -                | -                | -                | -                |
| Other Expenses                | 30,783.33        | 56,500.00        | 38,621.03        | 36,500.00        |
| Capital                       | -                | -                | -                | -                |
| Other Uses                    | -                | -                | -                | -                |
| Debt Service                  | -                | -                | -                | -                |
| <b>Total</b>                  | <b>30,783.33</b> | <b>56,500.00</b> | <b>38,621.03</b> | <b>36,500.00</b> |
|                               | \$ -             | \$ -             | \$ -             | \$ -             |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

**Celebrate Neosho Expense-** Fireworks recorded under Hotel Motel

|                         | FY2023   | FY2024   | FY2024   | FY2025   |
|-------------------------|----------|----------|----------|----------|
| Staffing Levels         | Actual   | Adopted  | Current  | Proposed |
|                         | Actual   | Budget   | Budget   | Budget   |
| No FTE                  |          |          |          |          |
| <b>DEPARTMENT TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

|                         |
|-------------------------|
| Communications & Events |
|-------------------------|

| Account                                                | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|--------------------------------------------------------|-------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Communications & Events Revenues                       |                               |                     |                     |                              |                               |                              |
| 100-113-4470-755                                       | Celebrate Booth Fees          | 1,000.00            | -                   | -                            | -                             | -                            |
| 100-113-4470-756                                       | Fall Festival Booth Fees      | 11,410.00           | 8,000.00            | 5,660.00                     | 5,660.00                      | 8,000.00                     |
| 100-113-4471-755                                       | Celebrate Race Fees           | -                   | -                   | -                            | -                             | -                            |
| 100-113-4480-755                                       | Celebrate Neosho Shirt Sales  | 472.75              | -                   | 75.00                        | 75.00                         | -                            |
| 100-113-4990-755                                       | Celebrate Neosho Sponsors     | 8,550.00            | 8,000.00            | 9,322.00                     | 9,322.00                      | 8,000.00                     |
| 100-113-4990-756                                       | Fall Festival Sponsorships    | 7,600.00            | 8,000.00            | 8,800.00                     | 8,800.00                      | 8,000.00                     |
| <b>Total Communications &amp; Events Revenues</b>      |                               | <b>\$ 29,032.75</b> | <b>\$ 24,000.00</b> | <b>\$ 23,857.00</b>          | <b>\$ 23,857.00</b>           | <b>\$ 24,000.00</b>          |
| Communications & Events Expenditures                   |                               |                     |                     |                              |                               |                              |
| 100-113-6520-755                                       | Celebrate Neosho Expenses     | 25,862.79           | 27,500.00           | 26,495.63                    | 27,500.00                     | 7,500.00                     |
| 100-113-6530-756                                       | Fall Festival Expenses        | 4,920.54            | 29,000.00           | 12,125.40                    | 29,000.00                     | 29,000.00                    |
| <b>Total Communications &amp; Events Expenditures</b>  |                               | <b>\$ 30,783.33</b> | <b>\$ 56,500.00</b> | <b>\$ 38,621.03</b>          | <b>\$ 56,500.00</b>           | <b>\$ 36,500.00</b>          |
| Communications & Events Other Sources                  |                               |                     |                     |                              |                               |                              |
| 100-000-3355-000                                       | Transfer to Gen Celebrate     | 15,000.00           | 19,500.00           | 19,500.00                    | 19,500.00                     | 7,500.00                     |
| 100-000-3356-000                                       | Transfer to Gen Fall Festival | 15,000.00           | 13,000.00           | 13,000.00                    | 13,000.00                     | 15,000.00                    |
| <b>Total Communications &amp; Events Other Sources</b> |                               | <b>\$ 30,000.00</b> | <b>\$ 32,500.00</b> | <b>\$ 32,500.00</b>          | <b>\$ 32,500.00</b>           | <b>\$ 22,500.00</b>          |
| Communications & Events Other Uses                     |                               |                     |                     |                              |                               |                              |
|                                                        |                               | -                   | -                   | -                            | -                             | -                            |
| <b>Total Communications &amp; Events Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES           |                               | 28,249.42           | -                   | 17,735.97                    | (143.00)                      | 10,000.00                    |

| Communication & Events |          |
|------------------------|----------|
| Health Insurance Rate  | 7,794.72 |
| Work Comp Rate         | -        |
| Retirement Rate        | -        |

|                      |   |   |
|----------------------|---|---|
| Part Time & Seasonal |   |   |
| Total Salaries       | - | - |

|                                      |                               | Department Request |                                                              |
|--------------------------------------|-------------------------------|--------------------|--------------------------------------------------------------|
| Communication & Events Revenues      |                               | Amount             | Justification & Supporting Information                       |
| 100-113-4470-755                     | Celebrate Booth Fees          | -                  | No booth fees                                                |
| 100-113-4470-756                     | Fall Festival Booth Fees      | 8,000.00           |                                                              |
| 100-113-4471-755                     | Celebrate Race Fees           | -                  |                                                              |
| 100-113-4480-755                     | Celebrate Neosho Shirt Sales  |                    |                                                              |
| 100-113-4990-755                     | Celebrate Neosho Sponsors     | 8,000.00           | Historical                                                   |
| 100-113-4990-756                     | Fall Festival Sponsorships    | 8,000.00           | Historical                                                   |
|                                      |                               | 24,000.00          |                                                              |
| Communication & Events Expenditures  |                               | Amount             | Justification & Supporting Information                       |
| 100-113-6520-755                     | Celebrate Neosho Expenses     | 7,500.00           | Vendors, Port-a-Potties                                      |
| 100-113-6530-756                     | Fall Festival Expenses        | 29,000.00          | Entertainment, Dumpsters, Music, Port-a-Potties, Advertising |
|                                      |                               | 36,500.00          |                                                              |
| Communication & Events Other Sources |                               | Amount             | Justification & Supporting Information                       |
| 100-000-3355-000                     | Transfer to Gen Celebrate     | 7,500.00           |                                                              |
| 100-000-3356-000                     | Transfer to Gen Fall Festival | 15,000.00          |                                                              |
| Communication & Events Other Uses    |                               | Amount             | Justification & Supporting Information                       |
|                                      |                               |                    |                                                              |



## Development Services

Richard Leavens  
Development Services Director  
[rleavens@neoshomo.org](mailto:rleavens@neoshomo.org)

The Development Office ensures all new development meets the needs of the present, without compromising the ability of future generations to meet their own needs. Building Inspection Department is also responsible for enforcing building and public safety codes to protect the best interest of the public. This department issues building permits and reviews all commercial plans prior to building permit approval.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | 168,386.97        | 154,019.00            | 129,596.99                 | 116,932.00             |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forefeitures | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | -                 | 50,000.00             | 37,500.00                  | 50,000.00              |
| <b>Total</b>         | <b>168,386.97</b> | <b>204,019.00</b>     | <b>167,096.99</b>          | <b>166,932.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 178,487.20        | 254,918.00            | 153,330.80                 | 273,101.00             |
| Supplies & Materials          | 8,072.26          | 9,404.00              | 6,037.34                   | 17,217.00              |
| Maintenance & Repair          | 229.68            | 1,575.00              | 1,108.05                   | 1,575.00               |
| Contractual Services          | 62,765.36         | 134,179.00            | 44,213.17                  | 67,789.00              |
| Utilities                     | -                 | -                     | 301.31                     | 3,221.00               |
| Other Expenses                | 1,636.45          | 3,675.00              | 973.46                     | 3,675.00               |
| Capital                       | -                 | 12,434.00             | 11,177.51                  | -                      |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>251,190.95</b> | <b>416,185.00</b>     | <b>217,141.64</b>          | <b>366,578.00</b>      |
|                               | \$ -              | \$ -                  | \$ 0.00                    | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Building permits/Inspections-** Increase for historical growth

**Planning and Zoning-** Increase for historical growth

**Memberships/Training/Travel-** Increase \$1,800 based on current need

**Uniforms -**Increased based on current need for additional personnel

#### Decreases:

**Professional Service-** decrease based on grant closeout

|                               | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels               |               |                       |                       |                        |
| Development Services Director | 1             | 1                     | 1                     | 1                      |
| Facility Maintenance          | 1             | 1                     | 1                     | 1                      |
| Building Inspector            | 1             | 1                     | 1                     | 1                      |
| Code Assistance               |               |                       |                       | 1                      |
| <b>DEPARTMENT TOTAL</b>       | <b>3</b>      | <b>3</b>              | <b>3</b>              | <b>4</b>               |

Development Services

| Account                                         | Account Name                    | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------|---------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Development Services Revenues                   |                                 |                      |                      |                              |                               |                              |
| 100-115-4120-115                                | Building Permits/Inspec.        | 135,734.40           | 102,152.00           | 99,980.55                    | 102,152.00                    | 115,432.00                   |
| 100-115-4200-708                                | CDBG Grant Revenue              | 29,105.88            | 50,132.00            | 22,673.04                    | 30,230.72                     | -                            |
| 100-115-4770-115                                | Planning & Zoning Fees          | 577.00               | 1,735.00             | 2,443.40                     | 3,257.87                      | 1,500.00                     |
| 100-115-4800-115                                | Code Enforcement Miscellaneous  | 1,700.00             | -                    | 4,500.00                     | 6,000.00                      | -                            |
| 100-115-4820-115                                | Sale of Dev. Service Property   | -                    | -                    | -                            | -                             | -                            |
| 100-115-4791-115                                | Code Enforcement Fees           | 1,269.69             | -                    | -                            | -                             | -                            |
| <b>Total Development Services Revenues</b>      |                                 | <b>\$ 168,386.97</b> | <b>\$ 154,019.00</b> | <b>\$ 129,596.99</b>         | <b>\$ 141,640.59</b>          | <b>\$ 116,932.00</b>         |
| Development Services Expenditures               |                                 |                      |                      |                              |                               |                              |
| 100-115-5010-115                                | Bldg/Inspection Salaries        | 131,095.62           | 184,126.00           | 111,796.76                   | 149,062.35                    | 194,794.00                   |
| 100-115-5020-115                                | Bldg/Inspection Overtime        | 2,228.75             | 1,750.00             | 1,657.87                     | 2,210.49                      | 1,750.00                     |
| 100-115-5070-115                                | Availability Allowance          | 1,080.00             | 1,440.00             | 540.00                       | 720.00                        | 1,440.00                     |
| 100-115-5170-115                                | Bldg/Inspection Social Sec.     | 10,174.40            | 14,220.00            | 8,636.93                     | 11,515.91                     | 15,036.00                    |
| 100-115-5180-115                                | Bldg/Inspection Retirement      | 7,077.57             | 9,294.00             | 5,858.65                     | 7,811.53                      | 11,793.00                    |
| 100-115-5190-115                                | Bldg/Inspection Health Ins.     | 21,302.02            | 30,211.00            | 17,275.88                    | 23,034.51                     | 31,179.00                    |
| 100-115-5210-115                                | Bldg/Inspection Workers Comp.   | 3,945.88             | 8,142.00             | 6,510.08                     | 8,680.11                      | 8,609.00                     |
| 100-115-5260-115                                | Bldg/Inspection Prof. Services  | 62,333.01            | 132,980.00           | 43,744.05                    | 58,325.40                     | 66,580.00                    |
| 100-115-5270-115                                | Credit Card Fees                | 219.12               | 1,000.00             | 270.12                       | 360.16                        | 1,000.00                     |
| 100-115-5300-115                                | Bldg/Inspection Ins. & Bonds    | 213.23               | 199.00               | 199.00                       | 265.33                        | 209.00                       |
| 100-115-5330-115                                | Bldg/Inspection Equip Maint.    | 229.68               | 1,575.00             | 1,108.05                     | 1,477.40                      | 1,575.00                     |
| 100-115-5360-115                                | Bldg/Inspection Mem/Train/Trvl  | 1,077.75             | 5,000.00             | 108.00                       | 144.00                        | 6,500.00                     |
| 100-115-5380-115                                | Bldg/Inspection Uniforms        | 505.21               | 735.00               | 946.63                       | 1,262.17                      | 2,000.00                     |
| 100-115-5530-115                                | Bldg/Inspection Fuels           | 1,636.45             | 3,675.00             | 973.46                       | 1,297.95                      | 3,675.00                     |
| 100-115-5590-115                                | Bldg/Inspection Gen. Supplies   | 6,657.89             | 7,350.00             | 4,780.16                     | 6,373.55                      | 15,500.00                    |
| 100-115-5700-115                                | Development Computer/Software   | 1,414.37             | 2,054.00             | 1,257.18                     | 1,676.24                      | 1,717.00                     |
| 100-115-6350-115                                | Bldg/Inspection Phones          | -                    | -                    | 301.31                       | 401.75                        | 3,221.00                     |
| <b>Total Development Services Expenditures</b>  |                                 | <b>\$ 251,190.95</b> | <b>\$ 403,751.00</b> | <b>\$ 205,964.13</b>         | <b>\$ 274,618.84</b>          | <b>\$ 366,578.00</b>         |
| Development Services Other Sources              |                                 |                      |                      |                              |                               |                              |
| 100-000-3325-115                                | Transfer from Police Dept       | -                    | 50,000.00            | 37,500.00                    | 50,000.00                     | 50,000.00                    |
| <b>Total Development Services Other Sources</b> |                                 | <b>\$ -</b>          | <b>\$ 50,000.00</b>  | <b>\$ 37,500.00</b>          | <b>\$ 50,000.00</b>           | <b>\$ 50,000.00</b>          |
| Development Services Other Uses                 |                                 |                      |                      |                              |                               |                              |
| 100-000-3285-115                                | Transfer to Capital Improvement | -                    | 12,434.00            | 11,177.51                    | 11,177.51                     | -                            |
| <b>Total Development Services Other Uses</b>    |                                 | <b>\$ -</b>          | <b>\$ 12,434.00</b>  | <b>\$ 11,177.51</b>          | <b>\$ 11,177.51</b>           | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES    |                                 | (82,803.98)          | (212,166.00)         | (50,044.65)                  | (94,155.76)                   | (199,646.00)                 |

| Development           |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE              | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Leavens, Richard | 1    | 57,942.56  | \$ 64,830.84       |                       | 360                       | 4,960.00           | 3,890.00   | 7,795.00  | 2,840.00     | \$ 84,675.84               |
| Wright, Dustin   | 1    | 33,737.60  | \$ 34,749.73       |                       | 360                       | 2,659.00           | 2,085.00   | 7,795.00  | 1,523.00     | \$ 49,171.73               |
| Brown, Matthew   | 1    | 45,440.20  | \$ 46,803.41       |                       | 360                       | 3,581.00           | 2,809.00   | 7,795.00  | 2,050.00     | \$ 63,398.41               |
| Worster, Adam    | 1    | 46,999.94  | \$ 48,409.94       |                       | 360                       | 3,704.00           | 2,905.00   | 7,795.00  | 2,121.00     | \$ 65,294.94               |
|                  | 4.00 | 184,120.30 | 194,793.91         | -                     | 1,440.00                  | 14,904.00          | 11,689.00  | 31,180.00 | 8,534.00     | \$ 262,540.91              |

|                      |            |            |
|----------------------|------------|------------|
| Overtime             | 2,210.49   | 1,750.00   |
| Part Time & Seasonal |            |            |
| Total Salaries       | 186,330.79 | 196,543.91 |

|                      |                                | Department Request |                                                                           |  |  |  |
|----------------------|--------------------------------|--------------------|---------------------------------------------------------------------------|--|--|--|
|                      |                                | Amount             | Justification & Supporting Information                                    |  |  |  |
| Development Revenues |                                |                    |                                                                           |  |  |  |
| 100-115-4120-115     | Building Permits/Inspec.       | 115,432.00         | Historical                                                                |  |  |  |
| 100-115-4200-708     | CDBG Grant Revenue             | -                  |                                                                           |  |  |  |
| 100-115-4770-115     | Planning & Zoning Fees         | 1,500.00           | Based on 1 P&Z app/month and raising fees to \$50 app fee + \$200 deposit |  |  |  |
| 100-115-4800-115     | Code Enforcement Miscellaneous |                    |                                                                           |  |  |  |
| 100-115-4820-115     | Sale of Dev. Service Property  |                    |                                                                           |  |  |  |
| 100-115-4791-115     | Code Enforcement Fees          |                    |                                                                           |  |  |  |
|                      |                                | 116,932.00         |                                                                           |  |  |  |

|                          |                                | Amount     | Justification & Supporting Information                                                                                                                                            |
|--------------------------|--------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Development Expenditures |                                |            |                                                                                                                                                                                   |
| 100-115-5010-115         | Bldg/Inspection Salaries       | 194,794.00 |                                                                                                                                                                                   |
| 100-115-5020-115         | Bldg/Inspection Overtime       | 1,750.00   |                                                                                                                                                                                   |
| 100-115-5070-115         | Availability Allowance         | 1,440.00   |                                                                                                                                                                                   |
| 100-115-5170-115         | Bldg/Inspection Social Sec.    | 15,036.00  |                                                                                                                                                                                   |
| 100-115-5180-115         | Bldg/Inspection Retirement     | 11,793.00  |                                                                                                                                                                                   |
| 100-115-5190-115         | Bldg/Inspection Health Ins.    | 31,179.00  |                                                                                                                                                                                   |
| 100-115-5210-115         | Bldg/Inspection Workers Comp.  | 8,609.00   |                                                                                                                                                                                   |
| 100-115-5260-115         | Bldg/Inspection Prof. Services | 66,580.00  | Dangerous Buildings \$50,000, GIS renewal & maintenance - \$4,000, Public Hearing notices - \$2,500, Stronghold \$2280, CivicPlus annual fee \$6,300, CivicPay Annual Fee \$1,500 |
| 100-115-5270-115         | Credit Card Fees               | 1,000.00   | Credit Card Fees for Building Permits                                                                                                                                             |
| 100-115-5300-115         | Bldg/Inspection Ins. & Bonds   | 209.00     | Property Ins                                                                                                                                                                      |
| 100-115-5330-115         | Bldg/Inspection Equip Maint.   | 1,575.00   |                                                                                                                                                                                   |
| 100-115-5360-115         | Bldg/Inspection Mem/Train/Trvl | 6,500.00   | MML - \$1,000, floodplain training \$1,000, Codes training for Matt, Adam, and Richard - \$3,000, Code Enforcement \$1,500                                                        |
| 100-115-5380-115         | Bldg/Inspection Uniforms       | 2,000.00   |                                                                                                                                                                                   |
| 100-115-5530-115         | Bldg/Inspection Fuels          | 3,675.00   |                                                                                                                                                                                   |
| 100-115-5590-115         | Bldg/Inspection Gen. Supplies  | 15,500.00  | Mapping printer/scanner 36" \$8,150                                                                                                                                               |
| 100-115-5700-115         | Development Computer/Software  | 1,717.00   | Firewall \$210, Office 365 \$712.58, Cyber software \$399.98, Server license upgrade \$393.80                                                                                     |
| 100-115-6350-115         | Bldg/Inspection Phones         | 3,221.00   | Tablet mifi connection \$504 fiber \$2,717.04                                                                                                                                     |
|                          |                                | 366,578.00 |                                                                                                                                                                                   |

|                           |                           | Amount    | Justification & Supporting Information |
|---------------------------|---------------------------|-----------|----------------------------------------|
| Development Other Sources |                           |           |                                        |
| 100-000-3325-115          | Transfer from Police Dept | 50,000.00 | Code Enforcement Officer               |

|                        |                                 | Amount | Justification & Supporting Information |
|------------------------|---------------------------------|--------|----------------------------------------|
| Development Other Uses |                                 |        |                                        |
| 100-000-3285-115       | Transfer to Capital Improvement |        |                                        |



## Recycle Center

Nate Siler  
Public Works Director  
[nsiler@neoshomo.org](mailto:nsiler@neoshomo.org)

The Neosho Recycle Center is a regional drop-off recycling center. The facility serves over 7,000 individual rec as well as six other communities or organizations each year.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | 100,374.98        | 97,145.00             | 132,305.77                 | 142,261.00             |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | -                 | -                     | -                          | -                      |
| <b>Total</b>         | <b>100,374.98</b> | <b>97,145.00</b>      | <b>132,305.77</b>          | <b>142,261.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 121,033.00        | 139,868.00            | 103,306.88                 | 146,185.00             |
| Supplies & Materials          | 633.50            | 1,575.00              | 548.00                     | 1,944.00               |
| Maintenance & Repair          | 4,502.75          | 4,650.00              | 2,105.68                   | 5,500.00               |
| Contractual Services          | 6,454.62          | 8,710.00              | 9,785.81                   | 10,536.00              |
| Utilities                     | 9,297.14          | 9,105.00              | 6,114.09                   | 7,045.00               |
| Other Expenses                | 1,337.40          | 1,890.00              | 1,399.73                   | 3,500.00               |
| Capital                       | 115,447.20        | 68,000.00             | 42,166.78                  | 65,261.00              |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>258,705.61</b> | <b>233,798.00</b>     | <b>165,426.97</b>          | <b>239,971.00</b>      |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Grant Revenue-** Received additional grant for capital

**Shipping and Disposal** - Increase for need

**Fuels-** Additional fork truck

#### Decreases:

**Capital** - Decrease based on current need

**Facility Maintenance-** Decrease based on current need

|                          | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|--------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels          |               |                       |                       |                        |
| Lead Recycling Attendant | 1             | 1                     | 1                     | 1                      |
| Recycling Attendant      | 2             | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b>  | <b>3</b>      | <b>3</b>              | <b>3</b>              | <b>3</b>               |

|                |
|----------------|
| Recycle Center |
|----------------|

| Account                                      | Account Name                     | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|----------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Recycle Center Revenues                      |                                  |                      |                      |                              |                               |                              |
| 100-118-4200-118                             | Region M Grant                   | 68,832.95            | 71,491.00            | 60,949.51                    | 71,491.00                     | 97,261.00                    |
| 100-118-4420-118                             | Recycle Center Sales             | 31,542.03            | 25,654.00            | 71,356.26                    | 95,141.68                     | 45,000.00                    |
| 100-118-4760-118                             | Insurance Proceeds               | -                    | -                    | -                            | -                             | -                            |
| <b>Total Recycle Center Revenues</b>         |                                  | <b>\$ 100,374.98</b> | <b>\$ 97,145.00</b>  | <b>\$ 132,305.77</b>         | <b>\$ 166,632.68</b>          | <b>\$ 142,261.00</b>         |
| Recycle Center Expenditures                  |                                  |                      |                      |                              |                               |                              |
| 100-118-5010-118                             | Recycle Center Salaries          | 86,714.06            | 97,114.00            | 72,675.74                    | 96,900.99                     | 100,710.00                   |
| 100-118-5020-118                             | Recycle Center Overtime          | 56.40                | 1,500.00             | 66.99                        | 89.32                         | 1,500.00                     |
| 100-118-5030-118                             | Recycle Center Part Time         | 602.10               | -                    | -                            | -                             | 360.00                       |
| 100-118-5170-118                             | Recycle Center Social Sec.       | 6,678.74             | 7,544.00             | 5,547.98                     | 7,397.31                      | 7,820.00                     |
| 100-118-5180-118                             | Recycle Center Retirement        | 3,944.97             | 4,931.00             | 3,637.08                     | 4,849.44                      | 6,133.00                     |
| 100-118-5190-118                             | Recycle Center Health Ins.       | 19,797.92            | 22,659.00            | 16,382.30                    | 21,843.07                     | 23,385.00                    |
| 100-118-5210-118                             | Recycle Center Workers Comp      | 1,748.06             | 4,320.00             | 4,067.42                     | 5,423.23                      | 4,477.00                     |
| 100-118-5260-118                             | Recycle Center Professional Serv | 801.38               | 1,284.00             | 1,956.70                     | 2,608.93                      | 1,284.00                     |
| 100-118-5265-118                             | Shipping/Disposal                | 4,128.76             | 5,250.00             | 5,779.07                     | 7,705.43                      | 7,000.00                     |
| 100-118-5300-118                             | Recycle Center Ins. & Bonds      | 1,524.48             | 2,176.00             | 2,050.04                     | 2,733.39                      | 2,252.00                     |
| 100-118-5320-118                             | Recycle Center Facility Maint.   | 1,474.68             | 2,550.00             | 202.08                       | 269.44                        | 2,000.00                     |
| 100-118-5330-118                             | Recycle Center Equipment Maint   | 3,028.07             | 2,100.00             | 1,903.60                     | 2,538.13                      | 3,500.00                     |
| 100-118-5360-118                             | Recycle Center Memb/Train/Trvl   | 18.00                | -                    | -                            | -                             | -                            |
| 100-118-5380-118                             | Recycle Center Uniforms          | 1,472.75             | 1,800.00             | 929.37                       | 1,239.16                      | 1,800.00                     |
| 100-118-5530-118                             | Recycle Center Fuels             | 1,337.40             | 1,890.00             | 1,399.73                     | 1,866.31                      | 3,500.00                     |
| 100-118-5590-118                             | Recycle Center Gen. Supplies     | 476.00               | 1,575.00             | 548.00                       | 730.67                        | 1,575.00                     |
| 100-118-5700-118                             | Recycle Comp., Software          | 157.50               | -                    | -                            | -                             | 369.00                       |
| 100-118-6300-118                             | Recycle Center Electricity       | 2,309.57             | 1,874.00             | 1,570.64                     | 2,094.19                      | 1,874.00                     |
| 100-118-6310-118                             | Recycle Center Heating Fuels     | 2,067.28             | 2,077.00             | 1,325.53                     | 1,767.37                      | 2,100.00                     |
| 100-118-6350-118                             | Recycle Center Phones            | 4,920.29             | 5,154.00             | 3,217.92                     | 4,290.56                      | 3,071.00                     |
| <b>Total Recycle Center Expenditures</b>     |                                  | <b>\$ 143,258.41</b> | <b>\$ 165,798.00</b> | <b>\$ 123,260.19</b>         | <b>\$ 164,346.92</b>          | <b>\$ 174,710.00</b>         |
| Recycle Center Other Sources                 |                                  |                      |                      |                              |                               |                              |
| <b>Total Recycle Center Other Sources</b>    |                                  | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Recycle Center Other Uses                    |                                  |                      |                      |                              |                               |                              |
| 100-000-3285-118                             | Transfer to Capital              | 115,447.20           | 68,000.00            | 42,166.78                    | 56,222.37                     | 65,261.00                    |
| <b>Total Recycle Center Other Uses</b>       |                                  | <b>\$ 115,447.20</b> | <b>\$ 68,000.00</b>  | <b>\$ 42,166.78</b>          | <b>\$ 56,222.37</b>           | <b>\$ 65,261.00</b>          |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                  | (158,330.63)         | (136,653.00)         | (33,121.20)                  | (53,936.61)                   | (97,710.00)                  |

| Recycle Center        |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE             | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|-----------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Howell Diana L. | 1    | 35,913.54 | \$ 37,673.84       |                       | 360                       | 2,883.00           | 2,261.00   | 7,795.00  | 1,651.00     | \$ 52,623.84               |
| Wright Todd A.  | 1    | 31,200.00 | \$ 32,136.00       |                       |                           | 2,459.00           | 1,929.00   | 7,795.00  | 1,408.00     | \$ 45,727.00               |
| Kenny, Michael  | 1    | 30,000.10 | \$ 30,900.10       |                       |                           | 2,364.00           | 1,855.00   | 7,795.00  | 1,354.00     | \$ 44,268.10               |
|                 | 3.00 | 97,113.64 | 100,709.94         | -                     | 360.00                    | 7,706.00           | 6,045.00   | 62,360.00 | 4,413.00     | \$ 181,593.94              |

|                      |            |            |
|----------------------|------------|------------|
| Overtime             | 89.32      | 1,500.00   |
| Part Time & Seasonal | 13,000.00  |            |
| Total Salaries       | 110,202.96 | 102,209.94 |

| Department Request                       |            |                                                                       |
|------------------------------------------|------------|-----------------------------------------------------------------------|
| Recycle Center Revenues                  | Amount     | Justification & Supporting Information                                |
| 100-118-4200-118    Region M Grant       | 97,261.00  | Region M Grant 2024 award, DNR Grant skid steer and food waste hopper |
| 100-118-4420-118    Recycle Center Sales | 45,000.00  | 5 Year historical                                                     |
|                                          | 142,261.00 |                                                                       |

| Recycle Center Expenditures                         | Amount     | Justification & Supporting Information                          |
|-----------------------------------------------------|------------|-----------------------------------------------------------------|
| 100-118-5010-118    Recycle Center Salaries         | 100,710.00 |                                                                 |
| 100-118-5020-118    Recycle Center Overtime         | 1,500.00   | Increase for city wide clean up.                                |
| 100-118-5170-118    Recycle Center Social Sec.      | 7,820.00   |                                                                 |
| 100-118-5180-118    Recycle Center Retirement       | 6,133.00   |                                                                 |
| 100-118-5190-118    Recycle Center Health Ins.      | 23,385.00  |                                                                 |
| 100-118-5210-118    Recycle Center Workers Comp     | 4,477.00   |                                                                 |
| 100-118-5260-118    Recycle Center Professional Ser | 1,284.00   | Stronghold                                                      |
| 100-118-5265-118    Shipping/Disposal               | 7,000.00   |                                                                 |
| 100-118-5300-118    Recycle Center Ins. & Bonds     | 2,252.00   | Property Ins                                                    |
| 100-118-5320-118    Recycle Center Facility Maint.  | 2,000.00   | Repairs as needed, such as heat and air or damages to           |
| 100-118-5330-118    Recycle Center Equipment Main   | 3,500.00   | Repairs to equipment as needed                                  |
| 100-118-5380-118    Recycle Center Uniforms         | 1,800.00   | \$1,800 for jeans, boots, coat, shirts and hat allowance (for 3 |
| 100-118-5530-118    Recycle Center Fuels            | 3,500.00   | incl propane for forklift                                       |
| 100-118-5590-118    Recycle Center Gen. Supplies    | 1,575.00   |                                                                 |
| 100-118-5700-118    Recycle Comp., Software         | 369.00     | wifi booster \$270,server license upgrade \$98.45               |
| 100-118-6300-118    Recycle Center Electricity      | 1,874.00   |                                                                 |
| 100-118-6310-118    Recycle Center Heating Fuels    | 2,100.00   |                                                                 |
| 100-118-6350-118    Recycle Center Phones           | 3,071.00   |                                                                 |
|                                                     | 174,710.00 |                                                                 |

| Recycle Center Other Sources | Amount | Justification & Supporting Information |
|------------------------------|--------|----------------------------------------|
|                              |        |                                        |
|                              |        |                                        |

| Recycle Center Other Uses               | Amount    | Justification & Supporting Information         |
|-----------------------------------------|-----------|------------------------------------------------|
| 100-000-3285-118    Transfer to Capital | 65,261.00 | Skid Steer \$63,238. Food Waste Hopper \$2,023 |
|                                         |           |                                                |

## Police Department

Jason Baird  
Chief of Police  
[j.baird@neoshomo.org](mailto:j.baird@neoshomo.org)

The Police Department is proactive in reducing crime and protecting lives and property and provides quality law enforcement to everyone living, working, and traveling through the community. The Police Department is also responsible for investigating reports of violations of the City's Code of Ordinances covering community standards, public nuisances, and conditions affecting public health, safety, and welfare in the City. The Police Department also facilitates the Neosho High School and Crowder College with Police Officers to enforce violations for on campus crimes. The Police Department is funded by Fines, a 1/2 of 1% Public Safety Tax, and the City's General Fund

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 118,041.71        | 100,000.00            | 89,089.60                  | 100,000.00             |
| Intergovernmental    | 26,467.93         | 2,160.00              | 3,651.02                   | 2,160.00               |
| Licenses & Permits   | 183.00            | 500.00                | 438.00                     | 500.00                 |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | 330,873.52        | 256,710.00            | 184,359.83                 | 268,442.00             |
| Miscellaneous        | 106,923.73        | 7,500.00              | 3,951.50                   | 7,500.00               |
| Other Sources        | 317,688.00        | 522,441.00            | 766,809.00                 | 1,237,547.00           |
| <b>Total</b>         | <b>900,177.89</b> | <b>889,311.00</b>     | <b>1,048,298.95</b>        | <b>1,616,149.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 1,796,579.38        | 1,916,172.00          | 1,378,433.31               | 1,943,652.00           |
| Supplies & Materials          | 13,353.18           | 27,563.00             | 11,642.01                  | 26,013.00              |
| Maintenance & Repair          | 48,709.08           | 95,948.00             | 71,479.16                  | 40,749.00              |
| Contractual Services          | 56,453.30           | 76,423.00             | 58,796.99                  | 1,078,110.00           |
| Utilities                     | 27,183.69           | 30,133.00             | 17,958.86                  | 22,566.00              |
| Other Expenses                | 151,554.37          | 127,766.00            | 65,161.94                  | 122,407.00             |
| Capital                       | 362,232.62          | 151,000.00            | 259,719.57                 | 80,000.00              |
| Other Uses                    | 4,200.00            | 52,310.00             | 37,500.00                  | 52,310.00              |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>2,460,265.62</b> | <b>2,477,315.00</b>   | <b>1,900,691.84</b>        | <b>3,365,807.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Grant Revenue** -Additional grant received

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

**Comp./Software**- Increase Server License upgrade

**Professional Services**- Increase for Architect

#### Decreases:

**Equipment Maintenance** - Decrease due to current needs

**Minor Equipment** - Decrease based on need

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Chief of Police         | 1             | 1                     | 1                     | 1                      |
| Lieutenant              | 2             | 2                     | 2                     | 2                      |
| Crowder SSO             | 2             | 0                     | 0                     | 0                      |
| Detective               | 2             | 2                     | 2                     | 2                      |
| SRO/Patrol              | 2             | 0                     | 0                     | 0                      |
| ACO/Patrol              | 1             | 1                     | 1                     | 1                      |
| Codes                   | 1             | 1                     | 1                     | 1                      |
| Patrol                  | 12            | 12                    | 12                    | 12                     |
| Sergeant                | 4             | 4                     | 4                     | 4                      |
| Records Clerk           | 2             | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b> | <b>29</b>     | <b>25</b>             | <b>25</b>             | <b>25</b>              |



|                   |
|-------------------|
| Police Department |
|-------------------|

| Account                                      | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Police Department Revenues                   |                               |                        |                        |                              |                               |                              |
| 100-120-4080-122                             | Animal Licenses               | 183.00                 | 500.00                 | 438.00                       | 584.00                        | 500.00                       |
| 100-120-4130-120                             | Sanitation Enforcement        | 118,041.71             | 100,000.00             | 89,089.60                    | 118,786.13                    | 100,000.00                   |
| 100-120-4200-120                             | Grant Revenue                 | 2,278.71               | 4,310.00               | -                            | -                             | 16,042.00                    |
| 100-120-4205-120                             | MIRMA Grant                   | -                      | -                      | -                            | -                             | -                            |
| 100-120-4600-120                             | Court Fines                   | 324,173.71             | 250,000.00             | 180,963.96                   | 241,285.28                    | 250,000.00                   |
| 100-120-4610-120                             | Police Training Fees          | 3,729.00               | 2,000.00               | 2,866.00                     | 3,821.33                      | 2,000.00                     |
| 100-120-4620-120                             | C. Victim's Compensation      | 692.10                 | 400.00                 | 529.87                       | 706.49                        | 400.00                       |
| 100-120-4630-120                             | Recoupment Jail Fees          | -                      | -                      | -                            | -                             | -                            |
| 100-120-4640-120                             | Recoupment Arrest Fees        | 4,917.75               | 3,500.00               | 3,324.65                     | 4,432.87                      | 3,500.00                     |
| 100-120-4760-120                             | Insurance Proceeds            | 23,324.10              | -                      | 1,094.30                     | 1,094.30                      | -                            |
| 100-120-4800-120                             | Law Enforcement Miscellaneous | 3,143.83               | 2,160.00               | 2,556.72                     | 3,408.96                      | 2,160.00                     |
| 100-120-4810-120                             | School Resource Ofcr          | 85,983.48              | -                      | -                            | -                             | -                            |
| 100-120-4810-121                             | School Resource Ofcr Crowder  | -                      | -                      | -                            | -                             | -                            |
| 100-120-4820-120                             | Police Sale of Property       | 15,360.00              | -                      | -                            | -                             | -                            |
| 100-120-4840-120                             | Security Detail Reimburse     | 662.50                 | 4,000.00               | 525.00                       | 700.00                        | 4,000.00                     |
| 100-120-4990-120                             | Police Donations              | -                      | -                      | 101.85                       | 135.80                        | -                            |
| 100-120-4992-120                             | Donated Rewards               | -                      | -                      | -                            | -                             | -                            |
| <b>Total Police Department Revenues</b>      |                               | <b>\$ 582,489.89</b>   | <b>\$ 366,870.00</b>   | <b>\$ 281,489.95</b>         | <b>\$ 374,955.17</b>          | <b>\$ 378,602.00</b>         |
| Police Department Expenditures               |                               |                        |                        |                              |                               |                              |
| 100-120-5010-120                             | Police Dept Salaries          | 1,234,094.86           | 1,288,823.00           | 950,334.27                   | 1,199,433.00                  | 1,313,698.00                 |
| 100-120-5020-120                             | Police Dept Overtime          | 82,809.50              | 93,000.00              | 62,785.05                    | 83,713.40                     | 93,000.00                    |
| 100-120-5030-120                             | Police Dept Part Time         | 8,543.75               | 10,224.00              | 9,828.52                     | 13,104.69                     | 14,769.00                    |
| 100-120-5070-120                             | Availability Allowance        | 2,610.00               | 2,520.00               | 1,522.50                     | 2,030.00                      | 2,520.00                     |
| 100-120-5170-120                             | Police Dept Social Security   | 96,630.71              | 106,492.00             | 74,369.66                    | 99,163.21                     | 108,743.00                   |
| 100-120-5180-120                             | Police Dept Retirement        | 90,849.63              | 105,019.00             | 64,854.33                    | 86,472.44                     | 92,843.00                    |
| 100-120-5190-120                             | Police Dept Health Insurance  | 187,091.98             | 188,817.00             | 136,592.10                   | 182,122.80                    | 194,868.00                   |
| 100-120-5210-120                             | Police Dept Workers Comp.     | 45,678.41              | 60,972.00              | 62,613.27                    | 83,484.36                     | 62,261.00                    |
| 100-120-5260-120                             | Police Dept Prof. Services    | 48,262.03              | 62,675.00              | 47,133.18                    | 62,844.24                     | 1,062,975.00                 |
| 100-120-5300-120                             | Police Dept Insurance & Bonds | 8,191.27               | 13,748.00              | 11,663.81                    | 15,551.75                     | 15,135.00                    |
| 100-120-5320-120                             | Police Dept Facility Maint.   | 9,663.40               | 7,350.00               | 352.07                       | 469.43                        | 7,350.00                     |
| 100-120-5330-120                             | Police Dept Equipment Maint   | 27,786.59              | 31,500.00              | 23,297.65                    | 31,063.53                     | 28,000.00                    |
| 100-120-5360-120                             | Police Dept Member/Train/Trvl | 14,617.79              | 21,355.00              | 11,603.79                    | 15,471.72                     | 22,000.00                    |
| 100-120-5363-120                             | TSMCS Account                 | -                      | 2,000.00               | -                            | -                             | 2,000.00                     |
| 100-120-5380-120                             | Police Dept Uniforms          | 17,855.09              | 19,950.00              | 8,879.82                     | 11,839.76                     | 19,950.00                    |
| 100-120-5420-120                             | Police Care of Prisoners      | 31,680.00              | 40,000.00              | 22,175.00                    | 29,566.67                     | 40,000.00                    |
| 100-120-5500-120                             | Investigation Account         | -                      | -                      | -                            | -                             | -                            |
| 100-120-5530-120                             | Police Dept Fuels/Lubricants  | 54,049.51              | 70,000.00              | 38,613.64                    | 52,000.00                     | 60,000.00                    |
| 100-120-5540-120                             | Police Dept Chemicals         | 235.75                 | 263.00                 | -                            | -                             | 263.00                       |
| 100-120-5590-120                             | Police Dept General Supplies  | 7,632.37               | 11,550.00              | 6,570.61                     | 8,760.81                      | 10,000.00                    |
| 100-120-5590-122                             | ACO General Supplies          | 5,485.06               | 15,750.00              | 5,071.40                     | 6,761.87                      | 15,750.00                    |
| 100-120-5700-120                             | Police Dept Comp., Software   | 10,707.58              | 17,766.00              | 4,373.30                     | 5,831.07                      | 22,407.00                    |
| 100-120-6300-120                             | Police Dept Electricity       | 12,752.52              | 15,013.00              | 7,739.22                     | 10,318.96                     | 15,013.00                    |
| 100-120-6350-120                             | Police Dept Phones            | 14,431.17              | 15,120.00              | 10,219.64                    | 13,626.19                     | 7,553.00                     |
| 100-120-6380-120                             | Lease Purchase Payments       | 55,117.28              | -                      | -                            | -                             | -                            |
| 100-120-6390-120                             | Police Dept Minor Equipment   | 11,259.09              | 57,098.00              | 47,829.44                    | 63,772.59                     | 5,399.00                     |
| 100-120-5361-120                             | Police Academy Training       | 15,797.66              | 17,000.00              | (4,950.00)                   | -                             | 17,000.00                    |
| <b>Total Police Department Expenditures</b>  |                               | <b>\$ 2,093,833.00</b> | <b>\$ 2,274,005.00</b> | <b>\$ 1,603,472.27</b>       | <b>\$ 2,077,402.48</b>        | <b>\$ 3,233,497.00</b>       |
| Police Department Other Sources              |                               |                        |                        |                              |                               |                              |
| 100-000-3305-120                             | Trns from Public Safety Fund  | 317,688.00             | 522,441.00             | 766,809.00                   | 522,441.00                    | 1,237,547.00                 |
| <b>Total Police Department Other Sources</b> |                               | <b>\$ 317,688.00</b>   | <b>\$ 522,441.00</b>   | <b>\$ 766,809.00</b>         | <b>\$ 522,441.00</b>          | <b>\$ 1,237,547.00</b>       |

| Account                                     | Account Name                     | FY2023<br>Actual     | FY2024<br>Budget     | 6/30/2024<br>Actual  | FY2024<br>Actual     | FY2025<br>Budget     |
|---------------------------------------------|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Police Department Other Uses                |                                  |                      |                      |                      |                      |                      |
| 100-000-3224-000                            | Transfer to Police Grants        | 4,200.00             | 2,310.00             | -                    | 2,310.00             | 2,310.00             |
| 100-000-3285-120                            | Trns to Capital Improvement      | 362,232.62           | 151,000.00           | 259,719.57           | 151,000.00           | 80,000.00            |
| 100-000-3225-115                            | Transfer to Development Services | -                    | 50,000.00            | 37,500.00            | 50,000.00            | 50,000.00            |
|                                             |                                  |                      |                      |                      |                      | -                    |
|                                             |                                  |                      |                      |                      |                      | -                    |
| <b>Total Police Department Other Uses</b>   |                                  | <b>\$ 366,432.62</b> | <b>\$ 203,310.00</b> | <b>\$ 297,219.57</b> | <b>\$ 203,310.00</b> | <b>\$ 132,310.00</b> |
|                                             |                                  |                      |                      |                      |                      |                      |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSE |                                  | (1,560,087.73)       | (1,588,004.00)       | (852,392.89)         | (1,383,316.31)       | (1,749,658.00)       |

| Police                |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.60%    |

Payroll Detail

| FTE                       | #     | FY2024          | FY2025 Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance  | Work<br>Comp | Total Salary &<br>Benefits |
|---------------------------|-------|-----------------|-----------------|-----------------------|---------------------------|--------------------|------------|------------|--------------|----------------------------|
| Baird, Jason              | 1     | 75,358.92       | \$ 77,619.69    |                       |                           | 5,938.00           | 5,123.00   | 7,795.00   | 3,400.00     | \$ 99,875.69               |
| Sharp, Robert             | 1     | 64,138.36       | \$ 66,062.51    |                       |                           | 5,054.00           | 4,361.00   | 7,990.36   | 2,894.00     | \$ 86,361.87               |
| Whitehead, Michael        | 1     | 64,138.36       | \$ 66,062.51    |                       | 360                       | 5,054.00           | 4,361.00   | 7,795.00   | 2,894.00     | \$ 86,526.51               |
| Schlessman, Rustin        | 1     | 55,424.72       | \$ 57,087.46    |                       | 360                       | 4,368.00           | 3,768.00   | 7,990.36   | 2,501.00     | \$ 76,074.82               |
| Tomlinson, Jordan         | 1     | 49,603.06       | \$ 51,091.15    |                       | 0                         | 3,909.00           | 3,373.00   | 7,795.00   | 2,238.00     | \$ 68,406.15               |
| Beshears, Brandon         | 1     | 55,424.72       | \$ 57,087.46    |                       | 360                       | 4,368.00           | 3,768.00   | 7,795.00   | 2,501.00     | \$ 75,879.46               |
| Howe, Rodney              | 1     | 55,424.72       | \$ 57,087.46    |                       | 0                         | 4,368.00           | 3,768.00   | 7,878.72   | 2,501.00     | \$ 75,603.19               |
| Houghton, Joshua          | 1     | 53,909.70       | \$ 55,526.99    |                       | 360                       | 4,248.00           | 3,665.00   | 7,906.64   | 2,433.00     | \$ 74,139.63               |
| Estrada, James            | 1     | 45,995.04       | \$ 47,374.89    |                       | 0                         | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.89               |
| Hackworth, Connor         | 1     | 47,455.72       | \$ 48,879.39    |                       |                           | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
| Graham, Zach              | 1     | 45,995.04       | \$ 47,374.89    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.89               |
| Kuhlman, Drey             | 1     | 47,455.72       | \$ 48,879.39    |                       | 0                         | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
| Crespo-Sariles, Jacquelin | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Bailey, Mackenzie         | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Brumfield, Keith          | 1     | 49,603.06       | \$ 51,091.15    |                       | 360                       | 3,909.00           | 3,373.00   | 7,906.64   | 2,238.00     | \$ 68,877.79               |
| Open ACO                  | 1     | 52,339.56       | \$ 43,965.00    |                       |                           | 3,364.00           | 2,902.00   | 7,795.00   | 1,926.00     | \$ 59,952.00               |
| Vue, Brandon Sian         | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Drake, Curt               | 1     | 53,909.70       | \$ 55,526.99    |                       | 360                       | 4,248.00           | 3,665.00   | 7,795.00   | 2,433.00     | \$ 74,027.99               |
| Kimmel, Rachel            | 1     | 47,212.10       | \$ 48,628.46    |                       |                           | 3,721.00           | 3,210.00   | 7,878.72   | 2,130.00     | \$ 65,568.19               |
| Scheppert, Shadrack       | 1     | 45,995.04       | \$ 48,879.39    |                       |                           | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
| Moudy, Nathaniel          | 1     | 49,603.06       | \$ 51,091.15    |                       | 360                       | 3,909.00           | 3,373.00   | 7,795.00   | 2,238.00     | \$ 68,766.15               |
| Mallory, Mari             | 1     | 47,211.84       | \$ 48,628.20    |                       |                           | 3,721.00           | 3,210.00   | 7,795.00   | 2,130.00     | \$ 65,484.20               |
| Cook, Chevelle            | 1     | 45,995.04       | \$ 47,374.89    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.89               |
| Duckett, Hunter           | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Dulany, Brian             | 1     | 47,455.72       | \$ 48,879.39    |                       |                           | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
|                           | 25.00 | \$ 1,275,512.16 | 1,313,697.50    | -                     | 2,520.00                  | 100,514.00         | 86,717.00  | 195,656.44 | 57,553.00    | \$ 1,756,657.94            |

|                      | Current Estimated | Proposed     |
|----------------------|-------------------|--------------|
| Overtime             | 83,713.40         | 93,000.00    |
| Part Time & Seasonal | 13,104.69         | 14,769.00    |
| Total Salaries       | 1,372,330.25      | 1,421,466.50 |

| Police Revenues  |                               | Department Request |                                        |
|------------------|-------------------------------|--------------------|----------------------------------------|
|                  |                               | Amount             | Justification & Supporting Information |
| 100-120-4080-122 | Animal Licenses               | 500.00             |                                        |
| 100-120-4130-120 | Sanitation Enforcement        | 100,000.00         | historical average                     |
| 100-120-4200-120 | Grant Revenue                 | 16,042.00          | Vest grant, MODOT HMV and DWI grant    |
| 100-120-4205-120 | MIRMA Grant                   |                    | not eligible                           |
| 100-120-4600-120 | Court Fines                   | 250,000.00         |                                        |
| 100-120-4610-120 | Police Training Fees          | 2,000.00           |                                        |
| 100-120-4620-120 | C. Victim's Compensation      | 400.00             |                                        |
| 100-120-4630-120 | Recoupment Jail Fees          | -                  |                                        |
| 100-120-4640-120 | Recoupment Arrest Fees        | 3,500.00           | Receive on DWI only                    |
| 100-120-4800-120 | Law Enforcement Miscellaneous | 2,160.00           | NCSO Tower rental                      |
| 100-120-4840-120 | Security Detail Reimburse     | 4,000.00           |                                        |
|                  |                               | 378,602.00         |                                        |

| Police Expenditures |                             | Amount       | Justification & Supporting Information |
|---------------------|-----------------------------|--------------|----------------------------------------|
| 100-120-5010-120    | Police Dept Salaries        | 1,313,698.00 |                                        |
| 100-120-5020-120    | Police Dept Overtime        | 93,000.00    |                                        |
| 100-120-5030-120    | Police Dept Part Time       | 14,769.00    |                                        |
| 100-120-5070-120    | Availability Allowance      | 2,520.00     |                                        |
| 100-120-5170-120    | Police Dept Social Security | 108,743.00   |                                        |

**Police Expenditures**

|                  |                              |
|------------------|------------------------------|
| 100-120-5180-120 | Police Dept Retirement       |
| 100-120-5190-120 | Police Dept Health Insurance |
| 100-120-5210-120 | Police Dept Workers Comp.    |

| Amount     | Justification & Supporting Information |
|------------|----------------------------------------|
| 92,843.00  |                                        |
| 194,868.00 |                                        |
| 62,261.00  |                                        |

**Police Expenditures**

|                  |                            |
|------------------|----------------------------|
| 100-120-5260-120 | Police Dept Prof. Services |
|------------------|----------------------------|

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,062,975.00 | Pest Control \$540, Psych Eval \$200, AT&T Cell cards \$8,413, FileOnQ \$1200, Freeman Occumed (psychicals) \$600, Idemia Yearly Maint \$350, Harris Yearly Maint \$3,519, Lakeland (Copier) \$1200, Marmic Fire \$800, Mo Notary \$400, MSHP Tech Fund \$840, Netmotion Yearly \$4,273, Recorder of deeds \$270, Safety Kleen (oil Disposal) \$60, S&S Security Annual Monitor \$265, S&S Security Annual Maint \$104, Sam's Club \$45, Stronghold Storage \$1000, Stronghold Microsoft Firewall Month Maint \$31,496, Superior \$5000, Lawn Care for codes \$1000, Radar Shop (Annual Calibration Radars) \$1100, Architect \$1,000,000, Demo and testing 301 Wood \$15,000, Annual Maint ro Pub Saf Services (FTO Software) \$300 |
| 15,135.00    | Property Ins, Drone Ins \$1,618                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7,350.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 28,000.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 22,000.00    | SW MO Cyber Crime Task Force Membership \$100, MO Police Chief Association memberships \$200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2,000.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 19,950.00    | 4700 BVP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 40,000.00    | Increased due to jail fee increase (Average \$1880.00 per month)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 60,000.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 263.00       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10,000.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 15,750.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 22,407.00    | \$6,888.25, Cyber Software \$3,866.52, server license upgrade \$6,033.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 15,013.00    | Last 6 Month usage averaged out over 12 month.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7,553.00     | includes 15 voicemail only licenses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5,399.00     | \$3000 WolfCom redaction advanced software, needed to redact certain items from body cam video, (2) Fujitsu Fi-8170 Document scanners \$1300 to replace both clerk's scanners, HP Enterprise printer for report room \$1099.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 17,000.00    | Tuition \$7,000 books and fees \$1,500 each - for 2 cadets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3,233,497.00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Police Other Sources**

|                  |                              |
|------------------|------------------------------|
| 100-000-3305-120 | Trns from Public Safety Fund |
|------------------|------------------------------|

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,237,547.00 | Patrol Cars 2 \$80,000 would allow \$5000 trade in each \$3000 WolfCom redaction advanced software, needed to redact certain items from body cam video, (2) Fujitsu Fi-8170 Document scanners \$1300 to replace both clerk's scanners, HP Enterprise printer for report room \$1099. Architect \$1,000,000, Demo and Testing 301 Wood Property \$15,000 |

**Police Other Uses**

|                  |                                  |
|------------------|----------------------------------|
| 100-000-3224-000 | Transfer to Police Grants        |
| 100-000-3285-120 | Trns to Capital Improvement      |
| 100-000-3225-115 | Transfer to Development Services |

| Amount    | Justification & Supporting Information                  |
|-----------|---------------------------------------------------------|
| 2,310.00  |                                                         |
| 80,000.00 | Patrol Cars 2 \$80,000 would allow \$5000 trade in each |
| 50,000.00 | Code Enforcement Officer                                |

|              |
|--------------|
| Police Grant |
|--------------|

| Account                                                  | Account Name               | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------------------|----------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Police Grant Revenues                                    |                            |                     |                     |                              |                               |                              |
| 120-128-4240-120                                         | DWI Grant Revenue          | -                   | -                   | -                            | -                             | 5,000.00                     |
| 120-129-4230-120                                         | HMV Grant Revenue          | -                   | -                   | -                            | -                             | 9,180.00                     |
| 120-131-4220-120                                         | Justice Dept Vest Grant    | 4,200.00            | 2,310.00            | -                            | 2,310.00                      | 1,862.00                     |
| 120-131-4250-120                                         | LLEBG Grant Revenue        | -                   | 10,000.00           | -                            | 10,000.00                     | -                            |
| <b>Total Police Grant Revenues</b>                       |                            | <b>\$ 4,200.00</b>  | <b>\$ 12,310.00</b> | <b>\$ -</b>                  | <b>\$ 12,310.00</b>           | <b>\$ 16,042.00</b>          |
| Police Grant Expenditures                                |                            |                     |                     |                              |                               |                              |
| 120-128-5020-120                                         | DWI Overtime               | -                   | -                   | -                            | -                             | 5,000.00                     |
| 120-128-5590-120                                         | DWI Grant General Supplies | -                   | -                   | -                            | -                             | -                            |
| 120-129-5020-120                                         | HMV Overtime               | -                   | -                   | -                            | -                             | 9,180.00                     |
| 120-129-5360-120                                         | HMV Grant Training         | -                   | -                   | -                            | -                             | -                            |
| 120-129-5590-120                                         | HMV Grant General Supplies | -                   | -                   | -                            | -                             | -                            |
| 120-131-5380-120                                         | Police Dept Uniforms-Vests | 8,400.00            | 4,620.00            | 4,619.93                     | 4,620.00                      | 3,725.00                     |
| 120-131-5790-120                                         | LLEBG-Law Enf Safety Prog  | -                   | 10,000.00           | -                            | 10,000.00                     | -                            |
| <b>Total Police Grant Expenditures</b>                   |                            | <b>\$ 8,400.00</b>  | <b>\$ 14,620.00</b> | <b>\$ 4,619.93</b>           | <b>\$ 14,620.00</b>           | <b>\$ 17,905.00</b>          |
| Police Grant Other Sources                               |                            |                     |                     |                              |                               |                              |
| 120-000-3324-000                                         | Transfer from Police Dept  | 4,200.00            | 2,310.00            | -                            | 2,310.00                      | 2,310.00                     |
| 120-000-3326-000                                         | Trasnfer from Dare         | -                   | -                   | -                            | -                             | -                            |
| <b>Total Police Grant Other Sources</b>                  |                            | <b>\$ 4,200.00</b>  | <b>\$ 2,310.00</b>  | <b>\$ -</b>                  | <b>\$ 2,310.00</b>            | <b>\$ 2,310.00</b>           |
| Police Grant Other Uses                                  |                            |                     |                     |                              |                               |                              |
| <b>Total Police Grant Other Uses</b>                     |                            | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                   |                            | -                   | -                   | (4,619.93)                   | -                             | 447.00                       |
| <b>Police Grant Beginning Fund Balance"October 1"</b>    |                            | <b>\$ 10,338.00</b> | <b>\$ 10,338.00</b> | <b>\$ 10,338.00</b>          | <b>\$ 10,338.00</b>           | <b>\$ 10,338.00</b>          |
| <b>Total Police Grant Funding Sources</b>                |                            | <b>\$ 18,738.00</b> | <b>\$ 24,958.00</b> | <b>\$ 10,338.00</b>          | <b>\$ 24,958.00</b>           | <b>\$ 28,690.00</b>          |
| <b>Total Police Grant Funding Uses</b>                   |                            | <b>\$ 8,400.00</b>  | <b>\$ 14,620.00</b> | <b>\$ 4,619.93</b>           | <b>\$ 14,620.00</b>           | <b>\$ 17,905.00</b>          |
| <b>Police Grant Beginning Fund Balance"September 30"</b> |                            | <b>\$ 10,338.00</b> | <b>\$ 10,338.00</b> | <b>\$ 5,718.07</b>           | <b>\$ 10,338.00</b>           | <b>\$ 10,785.00</b>          |

| Police Grant          |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | -        |
| Retirement Rate       | -        |

Police Grant Revenues

|                  |                         |
|------------------|-------------------------|
| 120-128-4240-120 | DWI Grant Revenue       |
| 120-129-4230-120 | HMV Grant Revenue       |
| 120-131-4220-120 | Justice Dept Vest Grant |
| 120-131-4250-120 | LLEBG Grant Revenue     |

Police Grant Expenditures

|                  |                            |
|------------------|----------------------------|
| 120-128-5020-120 | DWI Overtime               |
| 120-128-5590-120 | DWI Grant General Supplies |
| 120-129-5020-120 | HMV Overtime               |
| 120-129-5360-120 | HMV Grant Training         |
| 120-129-5590-120 | HMV Grant General Supplies |
| 120-131-5380-120 | Police Dept Uniforms-Vests |
| 120-131-5790-120 | LLEBG-Law Enf Safety Prog  |

Police Grant Other Sources

|                  |                           |
|------------------|---------------------------|
| 120-000-3324-000 | Transfer from Police Dept |
|------------------|---------------------------|

Police Grant Other Uses

| Department Request |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| Amount             | Justification & Supporting Information                                                                       |
| 5,000.00           |                                                                                                              |
| 9,180.00           | Salary for the life of the detail plus the possibility of 4 radar units and LetSAC training for two officers |
| 1,862.00           |                                                                                                              |
| -                  |                                                                                                              |

16,042.00

| Amount   | Justification & Supporting Information           |
|----------|--------------------------------------------------|
| 5,000.00 |                                                  |
|          |                                                  |
| 9,180.00 |                                                  |
|          |                                                  |
|          |                                                  |
| 3,725.00 | 5 Officers 50% match for a total of \$3725.00    |
| -        | Has not even been offered for the last two years |

17,905.00

| Amount   | Justification & Supporting Information |
|----------|----------------------------------------|
| 2,310.00 |                                        |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Municipal Court

Vickie Smith  
Municipal Court Clerk  
[vsmith@neoshomo.org](mailto:vsmith@neoshomo.org)

The Municipal Court is authorized by the Missouri Constitution and is a part of the Circuit Court. The Court's function is to adjudicate legal disputes between parties and carry out the administration of justice in accordance with the rule of law. The Court's role is to determine disputes in the form of cases which are brought before the judge. The court provides defendants with a fair and impartial trial on any alleged violation of a city ordinance. These include, but are not limited to traffic enforcement, peace disturbance, shoplifting, assaults, drug/paraphernalia charges, code violations and animal charges. The Municipal Court is open to the public for any and all court hearings.

| Revenues<br>Category | FY2023<br>Actual | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|----------------------|------------------|-----------------------------|----------------------------------|------------------------------|
| Taxes                | -                | -                           | -                                | -                            |
| Intergovernmental    | -                | -                           | -                                | -                            |
| Licenses & Permits   | -                | -                           | -                                | -                            |
| Charges for Services | -                | -                           | -                                | -                            |
| Fines & Forfeitures  | 22,296.99        | 17,400.00                   | 17,089.34                        | 17,400.00                    |
| Miscellaneous        | -                | -                           | -                                | -                            |
| Other Sources        | -                | -                           | -                                | -                            |
| <b>Total</b>         | <b>22,296.99</b> | <b>17,400.00</b>            | <b>17,089.34</b>                 | <b>17,400.00</b>             |
|                      | \$ -             | \$ -                        | \$ -                             | \$ -                         |

| Expense<br>Category           | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|-------------------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Salaries, Benefits, & Support | 141,998.44        | 152,192.00                  | 114,979.33                       | 156,827.00                   |
| Supplies & Materials          | 1,977.20          | 2,730.00                    | 1,933.18                         | 2,877.00                     |
| Maintenance & Repair          | 479.98            | 500.00                      | -                                | 500.00                       |
| Contractual Services          | 4,975.20          | 4,850.00                    | 4,341.80                         | 9,850.00                     |
| Utilities                     | 1,200.00          | 1,260.00                    | 1,060.16                         | 2,837.00                     |
| Other Expenses                | 4,808.42          | 5,054.00                    | 3,118.35                         | 5,120.00                     |
| Capital                       | -                 | -                           | -                                | -                            |
| Other Uses                    | -                 | -                           | -                                | -                            |
| Debt Service                  | -                 | -                           | -                                | -                            |
| <b>Total</b>                  | <b>155,439.24</b> | <b>166,586.00</b>           | <b>125,432.82</b>                | <b>178,011.00</b>            |
|                               | \$ -              | \$ -                        | \$ -                             | \$ -                         |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Phones** - Increase for revised allocation fiber and phones

#### Decreases:

|                         | FY2023<br>Actual | FY2024<br>Adopted<br>Budget | FY2024<br>Current<br>Budget | FY2025<br>Proposed<br>Budget |
|-------------------------|------------------|-----------------------------|-----------------------------|------------------------------|
| Staffing Levels         |                  |                             |                             |                              |
| Municipal Court Clerk   | 1                | 1                           | 1                           | 1                            |
| Deputy Court Clerk      | 1                | 1                           | 1                           | 1                            |
| Municipal Judge         | 1                | 1                           | 1                           | 1                            |
| <b>DEPARTMENT TOTAL</b> | <b>3</b>         | <b>3</b>                    | <b>3</b>                    | <b>3</b>                     |

|                 |
|-----------------|
| Municipal Court |
|-----------------|

| Account                                      | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Municipal Court Revenues                     |                                |                      |                      |                              |                               |                              |
| 100-125-4590-125                             | Court Costs                    | 20,568.29            | 16,000.00            | 15,731.51                    | 20,568.29                     | 16,000.00                    |
| 100-125-4611-125                             | Court Clerk Training Fees      | 1,728.70             | 1,400.00             | 1,357.83                     | 1,810.44                      | 1,400.00                     |
| <b>Total Municipal Court Revenues</b>        |                                | <b>\$ 22,296.99</b>  | <b>\$ 17,400.00</b>  | <b>\$ 17,089.34</b>          | <b>\$ 22,378.73</b>           | <b>\$ 17,400.00</b>          |
| Municipal Court Expenditures                 |                                |                      |                      |                              |                               |                              |
| 100-125-5010-125                             | Municipal Court Salaries       | 100,895.19           | 106,746.00           | 80,598.58                    | 107,464.77                    | 109,138.00                   |
| 100-125-5020-125                             | Municipal Court Overtime       | 456.38               | 1,800.00             | 1,353.07                     | 1,804.09                      | 1,800.00                     |
| 100-125-5170-125                             | Municipal Court Social Secur.  | 6,477.62             | 8,304.00             | 5,478.98                     | 7,305.31                      | 8,487.00                     |
| 100-125-5180-125                             | Municipal Court Retirement     | 5,343.45             | 5,428.00             | 4,097.59                     | 5,463.45                      | 6,657.00                     |
| 100-125-5190-125                             | Municipal Court Health Ins.    | 23,603.08            | 22,659.00            | 17,409.66                    | 23,212.88                     | 23,385.00                    |
| 100-125-5210-125                             | Municipal Court Workers Comp.  | 2,937.82             | 4,755.00             | 4,624.95                     | 6,166.60                      | 4,860.00                     |
| 100-125-5260-125                             | Municipal Court Prof. Services | 4,975.20             | 3,850.00             | 4,341.80                     | 5,789.07                      | 8,850.00                     |
| 100-125-5261-125                             | Court Appointed Expenses       | -                    | 1,000.00             | -                            | -                             | 1,000.00                     |
| 100-125-5263-125                             | Domestic Violence Expense      | 3,738.50             | 3,600.00             | 2,461.00                     | 3,281.33                      | 3,600.00                     |
| 100-125-5330-125                             | Municipal Court Equip. Maint.  | 479.98               | 500.00               | -                            | -                             | 500.00                       |
| 100-125-5360-125                             | Municipal Court Mem/Train/Trvl | 2,284.90             | 2,500.00             | 1,416.50                     | 1,888.67                      | 2,500.00                     |
| 100-125-5590-125                             | Municipal Court Gen Supplies   | 1,977.20             | 2,730.00             | 1,933.18                     | 2,577.57                      | 2,877.00                     |
| 100-125-5700-125                             | Municipal Court Comp., Softwre | 1,069.92             | 1,454.00             | 657.35                       | 657.35                        | 1,520.00                     |
| 100-125-6350-125                             | Municipal Court Phones         | 1,200.00             | 1,260.00             | 1,060.16                     | 1,413.55                      | 2,837.00                     |
| <b>Total Municipal Court Expenditures</b>    |                                | <b>\$ 155,439.24</b> | <b>\$ 166,586.00</b> | <b>\$ 125,432.82</b>         | <b>\$ 167,024.64</b>          | <b>\$ 178,011.00</b>         |
| Municipal Court Other Sources                |                                |                      |                      |                              |                               |                              |
| <b>Total Municipal Court Other Sources</b>   |                                | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Municipal Court Other Uses                   |                                |                      |                      |                              |                               |                              |
| <b>Total Municipal Court Other Uses</b>      |                                | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                | (133,142.25)         | (149,186.00)         | (108,343.48)                 | (144,645.91)                  | (160,611.00)                 |



| Municipal Court       |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE           | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|---------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Smith, Vickie | 1    | 44,990.40  | \$ 46,340.11       |                       |                           | 3,546.00           | 2,781.00   | 7,795.00  | 2,030.00     | \$ 62,492.11               |
| Reding, Donna | 1    | 34,760.44  | \$ 35,803.25       |                       |                           | 2,739.00           | 2,149.00   | 7,795.00  | 1,569.00     | \$ 50,055.25               |
| Cooper, Duane | 1    | 26,994.24  | \$ 26,994.24       |                       |                           | 2,066.00           | 1,620.00   | 7,906.64  | 1,183.00     | \$ 39,769.88               |
|               | 3.00 | 106,745.08 | 109,137.61         | -                     | -                         | 8,351.00           | 6,550.00   | 23,496.64 | 4,782.00     | \$ 152,317.24              |

|                      |            |            |
|----------------------|------------|------------|
| Overtime             | 1,804.09   | 1,800.00   |
| Part Time & Seasonal |            |            |
| Total Salaries       | 108,549.17 | 110,937.61 |

| Department Request                         |                                        |                   |
|--------------------------------------------|----------------------------------------|-------------------|
| Amount                                     | Justification & Supporting Information |                   |
| 100-125-4590-125 Court Costs               | 16,000.00                              | 5 Year Historical |
| 100-125-4611-125 Court Clerk Training Fees | 1,400.00                               | 5 Year Historical |
|                                            |                                        |                   |
|                                            | 17,400.00                              |                   |

| Amount                                           | Justification & Supporting Information |                                                                                                                                      |
|--------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 100-125-5010-125 Municipal Court Salaries        | 109,138.00                             |                                                                                                                                      |
| 100-125-5020-125 Municipal Court Overtime        | 1,800.00                               |                                                                                                                                      |
| 100-125-5170-125 Municipal Court Social Secur.   | 8,487.00                               |                                                                                                                                      |
| 100-125-5180-125 Municipal Court Retirement      | 6,657.00                               |                                                                                                                                      |
| 100-125-5190-125 Municipal Court Health Ins.     | 23,385.00                              |                                                                                                                                      |
| 100-125-5210-125 Municipal Court Workers Comp.   | 4,860.00                               |                                                                                                                                      |
| 100-125-5260-125 Municipal Court Prof. Services  | 8,850.00                               | Stronghold \$1550, Copier Maintenance \$800, Interpreters \$1500                                                                     |
| 100-125-5261-125 Court Appointed Expenses        | 1,000.00                               |                                                                                                                                      |
| 100-125-5263-125 Domestic Violence Expense       | 3,600.00                               |                                                                                                                                      |
| 100-125-5330-125 Municipal Court Equip. Maint.   | 500.00                                 |                                                                                                                                      |
| 100-125-5360-125 Municipal Court Mem/Train/Trvl  | 2,500.00                               | MACA memberships \$120, 2 Judge membership and conference \$600, Clerk conference \$300, conference travel and hotel \$1200 for both |
| 100-125-5590-125 Municipal Court Gen Supplies    | 2,877.00                               | Postage \$1,330, Forms \$,1500, Neosho logo shirts \$47                                                                              |
| 100-125-5700-125 Municipal Court Comp., Software | 1,520.00                               | Firewall \$210, Office 365 \$712.58, Cyber software \$399.98, serv                                                                   |
| 100-125-6350-125 Municipal Court Phones          | 2,837.00                               |                                                                                                                                      |
|                                                  |                                        |                                                                                                                                      |
|                                                  | 178,011.00                             |                                                                                                                                      |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Information Technology

Richard Leavens  
Development Services Director  
[rlavens@neoshomo.org](mailto:rlavens@neoshomo.org)

The Information Technology Department oversees the City's use of existing and emerging technologies in government operations, and its delivery of services to the public. The City has one FTE plus contracts with a third party.

|                      |               | FY2024   | FY2024      | FY2025   |
|----------------------|---------------|----------|-------------|----------|
| Revenue              | FY2023        | Adopted  | Current YTD | Proposed |
| Category             | Actual        | Budget   | Actuals     | Budget   |
| Taxes                | -             | -        | -           | -        |
| Intergovernmental    | -             | -        | -           | -        |
| Licenses & Permits   | -             | -        | -           | -        |
| Charges for Services | -             | -        | -           | -        |
| Fines & Forefeitures | -             | -        | -           | -        |
| Miscellaneous        | 115.39        | -        | -           | -        |
| Other Sources        | -             | -        | -           | -        |
| <b>Total</b>         | <b>115.39</b> | <b>-</b> | <b>-</b>    | <b>-</b> |
|                      | \$ -          | \$ -     | \$ -        | \$ -     |

|                               |                  | FY2024            | FY2024           | FY2025            |
|-------------------------------|------------------|-------------------|------------------|-------------------|
| Expense                       | FY2023           | Adopted           | Current YTD      | Proposed          |
| Category                      | Actual           | Budget            | Actuals          | Budget            |
| Salaries, Benefits, & Support | 44,400.84        | 47,980.00         | 35,495.62        | 49,712.00         |
| Supplies & Materials          | -                | 260.00            | 27.48            | 260.00            |
| Maintenance & Repair          | -                | -                 | -                | -                 |
| Contractual Services          | 21,279.55        | 53,058.00         | 9,895.40         | 53,243.00         |
| Utilities                     | -                | -                 | -                | -                 |
| Other Expenses                | 6,865.73         | 2,840.00          | 810.81           | 699.00            |
| Capital                       | -                | -                 | -                | -                 |
| Other Uses                    | -                | -                 | -                | -                 |
| Debt Service                  | -                | -                 | -                | -                 |
| <b>Total</b>                  | <b>72,546.12</b> | <b>104,138.00</b> | <b>46,229.31</b> | <b>103,914.00</b> |
|                               | \$ -             | \$ -              | \$ -             | \$ -              |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Computers/ Software-** Increase based on current need server upgrade

#### Decreases:

|                         | FY2023 | FY2024   | FY2024   | FY2025   |
|-------------------------|--------|----------|----------|----------|
| Staffing Levels         | Actual | Adopted  | Current  | Proposed |
|                         |        | Budget   | Budget   | Budget   |
| IT Technician           |        | 1        | 1        | 1        |
|                         |        |          |          |          |
| <b>DEPARTMENT TOTAL</b> |        | <b>1</b> | <b>1</b> | <b>1</b> |

|                        |
|------------------------|
| Information Technology |
|------------------------|

| Account                                           | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------|-------------------------------|---------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Information Technology Revenues                   |                               |                     |                      |                              |                               |                              |
| 100-141-4820-141                                  | Sale of IT Property           | 115.39              | -                    | -                            | -                             | -                            |
| <b>Total Information Technology Revenues</b>      |                               | <b>\$ 115.39</b>    | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Information Technology Expenditures               |                               |                     |                      |                              |                               |                              |
| 100-141-5010-141                                  | IT Salaries                   | 31,544.88           | 32,754.00            | 24,904.19                    | 33,205.59                     | 33,736.00                    |
| 100-141-5020-141                                  | IT Overtime                   | 221.66              | 200.00               | 336.36                       | 448.48                        | 200.00                       |
| 100-141-5070-141                                  | Availability Allowance        | 360.00              | 360.00               | 270.00                       | 360.00                        | 360.00                       |
| 100-141-5170-141                                  | IT Social Security            | 2,417.47            | 2,521.00             | 1,932.62                     | 2,576.83                      | 2,597.00                     |
| 100-141-5180-141                                  | IT Retirement                 | 1,694.70            | 1,648.00             | 1,276.96                     | 1,702.61                      | 2,037.00                     |
| 100-141-5190-141                                  | IT Health Insurance           | 7,199.24            | 7,553.00             | 5,338.55                     | 7,118.07                      | 7,795.00                     |
| 100-141-5210-141                                  | IT Workers Compensation       | 944.89              | 1,444.00             | 1,436.94                     | 1,915.92                      | 1,487.00                     |
| 100-141-5260-141                                  | IT Professional Services      | 21,279.55           | 53,058.00            | 9,895.40                     | 13,193.87                     | 53,243.00                    |
| 100-141-5360-141                                  | IT Membership/Training/Travel | 18.00               | 1,500.00             | -                            | 1,500.00                      | 1,500.00                     |
| 100-141-5590-141                                  | IT General Supplies           | -                   | 260.00               | 27.48                        | 36.64                         | 260.00                       |
| 100-141-5700-141                                  | IT Computers, Software, Etc.  | 6,865.73            | 2,840.00             | 810.81                       | 810.81                        | 699.00                       |
| <b>Total Information Technology Expenditures</b>  |                               | <b>\$ 72,546.12</b> | <b>\$ 104,138.00</b> | <b>\$ 46,229.31</b>          | <b>\$ 62,868.81</b>           | <b>\$ 103,914.00</b>         |
| Information Technology Other Sources              |                               |                     |                      |                              |                               |                              |
| <b>Total Information Technology Other Sources</b> |                               | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Information Technology Other Uses                 |                               |                     |                      |                              |                               |                              |
| <b>Total Information Technology Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES      |                               | (72,430.73)         | (104,138.00)         | (46,229.31)                  | (62,868.81)                   | (103,914.00)                 |

| Information Technology |          |
|------------------------|----------|
| Health Insurance Rate  | 7,794.72 |
| Work Comp Rate         | 4.38%    |
| Retirement Rate        | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Moody, George        | 1    | 32,752.98 | \$ 33,735.57       |                       | 360                       | 2,581.00           | 2,025.00   | 7,795.00  | 1,478.00     | \$ 47,974.57               |
|                      | 1.00 | 32,752.98 | 33,735.57          | -                     | 360.00                    | 2,581.00           | 2,025.00   | 7,795.00  | 1,478.00     | 47,974.57                  |
| Overtime             |      | 448.48    | 200.00             |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      |           |                    |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 33,201.46 | 33,935.57          |                       |                           |                    |            |           |              |                            |

|                                 |                     | Department Request |                                        |
|---------------------------------|---------------------|--------------------|----------------------------------------|
|                                 |                     | Amount             | Justification & Supporting Information |
| Information Technology Revenues |                     |                    |                                        |
| 100-141-4820-141                | Sale of IT Property |                    |                                        |
|                                 |                     |                    |                                        |

|                                     |                               | Amount     | Justification & Supporting Information                                                                                      |
|-------------------------------------|-------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Information Technology Expenditures |                               |            |                                                                                                                             |
| 100-141-5010-141                    | IT Salaries                   | 33,736.00  |                                                                                                                             |
| 100-141-5020-141                    | IT Overtime                   | 200.00     |                                                                                                                             |
| 100-141-5070-141                    | Availability Allowance        | 360.00     |                                                                                                                             |
| 100-141-5170-141                    | IT Social Security            | 2,597.00   |                                                                                                                             |
| 100-141-5180-141                    | IT Retirement                 | 2,037.00   |                                                                                                                             |
| 100-141-5190-141                    | IT Health Insurance           | 7,795.00   |                                                                                                                             |
| 100-141-5210-141                    | IT Workers Compensation       | 1,487.00   |                                                                                                                             |
| 100-141-5260-141                    | IT Professional Services      | 53,243.00  | Stronghold \$43,176, CivicEngage \$4,500, Vspere-\$400, SSL Certificate-\$192, Zoom \$149.9, Vmware \$176.75, GoGov \$4,104 |
| 100-141-5360-141                    | IT Membership/Training/Travel | 1,500.00   |                                                                                                                             |
| 100-141-5590-141                    | IT General Supplies           | 260.00     | Battery Backups                                                                                                             |
| 100-141-5700-141                    | IT Computers, Software, Etc.  | 699.00     | firewall \$210, Office 365 \$237.53, Cyber Software \$133.33, Domain .ORG renewal 19.50, server software 5 upgrades \$98.45 |
|                                     |                               | 103,914.00 |                                                                                                                             |

|                                      |  | Amount | Justification & Supporting Information |
|--------------------------------------|--|--------|----------------------------------------|
| Information Technology Other Sources |  |        |                                        |
|                                      |  |        |                                        |

|                                   |  | Amount | Justification & Supporting Information |
|-----------------------------------|--|--------|----------------------------------------|
| Information Technology Other Uses |  |        |                                        |
|                                   |  |        |                                        |

## Fleet Maintenance

Nate Siler  
Public Works Director

[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

Fleet Maintenance is responsible for over 150 vehicles and equipment from every department throughout the City. Services range from oil changes, brakes, and major replacement and repairs.

| Revenue Category     | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------|-----------------------|----------------------------|------------------------|
| Taxes                | -             | -                     | -                          | -                      |
| Intergovernmental    | -             | -                     | -                          | -                      |
| Licenses & Permits   | -             | -                     | -                          | -                      |
| Charges for Services | -             | -                     | -                          | -                      |
| Fines & Forfeitures  | -             | -                     | -                          | -                      |
| Miscellaneous        | -             | -                     | -                          | -                      |
| Other Sources        | -             | -                     | -                          | -                      |
| <b>Total</b>         | -             | -                     | -                          | -                      |
|                      | \$ -          | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual   | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-----------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -               | -                     | -                          | -                      |
| Supplies & Materials          | 1,112.36        | 2,100.00              | 226.89                     | 2,100.00               |
| Maintenance & Repair          | -               | -                     | -                          | -                      |
| Contractual Services          | -               | -                     | -                          | -                      |
| Utilities                     | -               | -                     | -                          | -                      |
| Other Expenses                | 3,481.85        | 6,300.00              | 4,587.80                   | 17,200.00              |
| Capital                       | -               | -                     | -                          | -                      |
| Other Uses                    | -               | -                     | -                          | -                      |
| Debt Service                  | -               | -                     | -                          | -                      |
| <b>Total</b>                  | <b>4,594.21</b> | <b>8,400.00</b>       | <b>4,814.69</b>            | <b>19,300.00</b>       |
|                               | \$ -            | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Minor Equipment** -Increase for tooling needs

#### Decreases:

| Staffing Levels                             | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|---------------------------------------------|---------------|-----------------------|-----------------------|------------------------|
| No FTE                                      | 0             | 0                     | 0                     | 0                      |
| *Mechanic was moved to public works in FY21 |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b>                     | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

|                   |
|-------------------|
| Fleet Maintenance |
|-------------------|

| Account                                      | Account Name                       | FY2023<br>Actual   | FY2024<br>Budget   | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|------------------------------------|--------------------|--------------------|------------------------------|-------------------------------|------------------------------|
| Fleet Maintenance Revenues                   |                                    |                    |                    |                              |                               |                              |
| 100-143-4820-143                             | Fleet Maintenance Sale of Property | -                  | -                  | -                            | -                             | -                            |
| <b>Total Fleet Maintenance Revenues</b>      |                                    | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Fleet Maintenance Expenditures               |                                    |                    |                    |                              |                               |                              |
| 100-143-5380-143                             | Fleet Mtce Uniforms                | -                  | -                  | -                            | -                             | -                            |
| 100-143-5530-143                             | Fleet Mtce Fuels                   | 1,964.70           | 3,150.00           | 1,391.47                     | 1,855.29                      | 2,000.00                     |
| 100-143-5590-143                             | Fleet Maint. General Supplies      | 1,112.36           | 2,100.00           | 226.89                       | 302.52                        | 2,100.00                     |
| 100-143-6390-143                             | Fleet Mtce Minor Equipment         | 1,517.15           | 3,150.00           | 3,196.33                     | 4,261.77                      | 15,200.00                    |
| <b>Total Fleet Maintenance Expenditures</b>  |                                    | <b>\$ 4,594.21</b> | <b>\$ 8,400.00</b> | <b>\$ 4,814.69</b>           | <b>\$ 6,419.59</b>            | <b>\$ 19,300.00</b>          |
| Fleet Maintenance Other Sources              |                                    |                    |                    |                              |                               | -                            |
| <b>Total Fleet Maintenance Other Sources</b> |                                    | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Fleet Maintenance Other Uses                 |                                    |                    |                    |                              |                               | -                            |
| <b>Total Fleet Maintenance Other Uses</b>    |                                    | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                    | (4,594.21)         | (8,400.00)         | (4,814.69)                   | (6,419.59)                    | (19,300.00)                  |

| Fleet Maintenance     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

Fleet Maintenance Revenues  
100-143-4820-143     Fleet Maintenance Sale of Property

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
|                    |                                        |
|                    |                                        |

-

Fleet Maintenance Expenditures  
100-143-5380-143     Fleet Mtce Uniforms  
100-143-5530-143     Fleet Mtce Fuels  
100-143-5590-143     Fleet Maint. General Supplies  
100-143-6390-143     Fleet Mtce Minor Equipment

| Amount    | Justification & Supporting Information                                                |
|-----------|---------------------------------------------------------------------------------------|
|           |                                                                                       |
| 2,000.00  |                                                                                       |
| 2,100.00  |                                                                                       |
| 15,200.00 | Increase for purchasing tools needed, cooling fan \$4,000, exhaust system fan \$6,200 |
|           |                                                                                       |

19,300.00

Fleet Maintenance Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

Fleet Maintenance Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

## Emergency Management

Aaron Houk

Fire Chief

[ahouk@neoshomo.org](mailto:ahouk@neoshomo.org)

The Department of Emergency Management serves to provide the citizens of Neosho with an appropriate emergency situation in order to maintain the public safety and well-being of Neosho and its citizens. Management is funded by a 1/2 of 1% Public Safety Tax.

| Revenue              | FY2023           | FY2024           | FY2024           | FY2025           |
|----------------------|------------------|------------------|------------------|------------------|
| Category             | Actual           | Adopted          | Current YTD      | Proposed         |
| Taxes                | -                | -                | -                | -                |
| Intergovernmental    | -                | -                | -                | -                |
| Licenses & Permits   | -                | -                | -                | -                |
| Charges for Services | -                | -                | -                | -                |
| Fines & Forfeitures  | -                | -                | -                | -                |
| Miscellaneous        | -                | -                | -                | -                |
| Other Sources        | 18,696.00        | 20,047.00        | 15,039.00        | 20,144.00        |
| <b>Total</b>         | <b>18,696.00</b> | <b>20,047.00</b> | <b>15,039.00</b> | <b>20,144.00</b> |
|                      | \$ -             | \$ -             | \$ -             | \$ -             |

| Expense                       | FY2023           | FY2024           | FY2024           | FY2025           |
|-------------------------------|------------------|------------------|------------------|------------------|
| Category                      | Actual           | Adopted          | Current YTD      | Proposed         |
| Salaries, Benefits, & Support | -                | -                | -                | -                |
| Supplies & Materials          | -                | -                | -                | -                |
| Maintenance & Repair          | -                | -                | -                | -                |
| Contractual Services          | 12,276.00        | 16,821.00        | 13,521.00        | 16,821.00        |
| Utilities                     | 3,075.55         | 3,226.00         | 1,944.25         | 3,323.00         |
| Other Expenses                | -                | -                | -                | -                |
| Capital                       | -                | -                | -                | -                |
| Other Uses                    | -                | -                | -                | -                |
| Debt Service                  | -                | -                | -                | -                |
| <b>Total</b>                  | <b>15,351.55</b> | <b>20,047.00</b> | <b>15,465.25</b> | <b>20,144.00</b> |
|                               | \$ -             | \$ -             | \$ -             | \$ -             |

Highlights - Variances of 10% (FY2024 Projected/FY2025)

Increases:

Decreases:

|                         | FY2023   | FY2024   | FY2024   | FY2025   |
|-------------------------|----------|----------|----------|----------|
| Staffing Levels         | Actual   | Adopted  | Current  | Proposed |
| No FTE                  | 0        | 0        | 0        | 0        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |



|                      |
|----------------------|
| Emergency Management |
|----------------------|

| Account                                         | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------|-------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Emergency Management Revenues                   |                               |                     |                     |                              |                               |                              |
| <b>Total Emergency Management Revenues</b>      |                               | \$ -                | \$ -                | \$ -                         | \$ -                          | \$ -                         |
| Emergency Management Expenditures               |                               |                     |                     |                              |                               |                              |
| 100-144-5260-144                                | Emergency Mgmt Prof. Services | 12,276.00           | 13,521.00           | 13,521.00                    | 13,521.00                     | 13,521.00                    |
| 100-144-5300-144                                | Emergency Mgmt Ins. & Bonds   | -                   | 3,300.00            | -                            | 2,730.00                      | 3,300.00                     |
| 100-144-5330-144                                | Emergency Mgmt Equip. Mtce    | -                   | -                   | -                            | -                             | -                            |
| 100-144-6300-144                                | Emergency Mgmt Electricity    | 3,075.55            | 3,226.00            | 1,944.25                     | 2,592.33                      | 3,323.00                     |
| <b>Total Emergency Management Expenditures</b>  |                               | <b>\$ 15,351.55</b> | <b>\$ 20,047.00</b> | <b>\$ 15,465.25</b>          | <b>\$ 18,843.33</b>           | <b>\$ 20,144.00</b>          |
| Emergency Management Other Sources              |                               |                     |                     |                              |                               |                              |
| 100-000-3305-144                                | Trns from Public Safety Fund  | 18,696.00           | 20,047.00           | 15,039.00                    | 20,047.00                     | 20,144.00                    |
| <b>Total Emergency Management Other Sources</b> |                               | <b>\$ 18,696.00</b> | <b>\$ 20,047.00</b> | <b>\$ 15,039.00</b>          | <b>\$ 20,047.00</b>           | <b>\$ 20,144.00</b>          |
| Emergency Management Other Uses                 |                               |                     |                     |                              |                               |                              |
| <b>Total Emergency Management Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES    |                               | 3,344.45            | -                   | (426.25)                     | 1,203.67                      | -                            |

| Emergency Management  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 9.20%    |

Payroll Detail

Emergency Management Revenues

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
|                    |                                        |

Emergency Management Expenditures

|                  |                               | Amount    | Justification & Supporting Information                    |
|------------------|-------------------------------|-----------|-----------------------------------------------------------|
| 100-144-5260-144 | Emergency Mgmt Prof. Services | 13,521.00 | Increased / Blue Valley Storm Siren Maintenance Agreement |
| 100-144-5300-144 | Emergency Mgmt Ins. & Bonds   | 3,300.00  |                                                           |
| 100-144-5330-144 | Emergency Mgmt Equip. Mtce    |           |                                                           |
| 100-144-6300-144 | Emergency Mgmt Electricity    | 3,323.00  |                                                           |
|                  |                               | 20,144.00 |                                                           |

Emergency Management Other Sources

|                  |                              | Amount    | Justification & Supporting Information |
|------------------|------------------------------|-----------|----------------------------------------|
| 100-000-3305-144 | Trns from Public Safety Fund | 20,144.00 |                                        |

Emergency Management Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|--------|----------------------------------------|

## Human Resources

Krysti Muhic  
Human Resource Director  
[Kmuhic@neoshomo.org](mailto:Kmuhic@neoshomo.org)

The HR office handles the administration of all HR functions including recruitment, testing, selection, compensation & benefits, workers' compensation as well as employee counseling & employee relations. The Director supervises front desk personnel and associated duties to ensure citizens issues are handled appropriately. The Director answers incoming phone calls as well as assisting citizens visiting city hall. The Director inputs payroll changes and additions into Springbrook payroll system and also administers any online banking needs for the finance department.

| Revenue Category     | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------|-----------------------|----------------------------|------------------------|
| Taxes                | -             | -                     | -                          | -                      |
| Intergovernmental    | -             | -                     | -                          | -                      |
| Licenses & Permits   | -             | -                     | -                          | -                      |
| Charges for Services | -             | -                     | -                          | -                      |
| Fines & Forfeitures  | -             | -                     | -                          | -                      |
| Miscellaneous        | -             | -                     | -                          | -                      |
| Other Sources        | -             | -                     | -                          | -                      |
| <b>Total</b>         | -             | -                     | -                          | -                      |
|                      | \$ -          | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 78,580.01        | 84,283.00             | 61,692.43                  | 87,777.00              |
| Supplies & Materials          | 1,044.40         | 5,800.00              | 2,101.95                   | 4,747.00               |
| Maintenance & Repair          | -                | -                     | -                          | -                      |
| Contractual Services          | 3,782.25         | 3,935.00              | 3,157.21                   | 3,400.00               |
| Utilities                     | -                | -                     | -                          | -                      |
| Other Expenses                | 637.21           | 6,400.00              | 917.86                     | 1,776.00               |
| Capital                       | -                | -                     | -                          | -                      |
| Other Uses                    | -                | -                     | -                          | -                      |
| Debt Service                  | -                | -                     | -                          | -                      |
| <b>Total</b>                  | <b>84,043.87</b> | <b>100,418.00</b>     | <b>67,869.45</b>           | <b>97,700.00</b>       |
|                               | \$ -             | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Member/Train/ Travel** - Increase for additional conference

#### Decreases:

**Professional Services**- Decrease for current needs

**General Supplies**- Decrease for needs

|                          | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|--------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels          |               |                       |                       |                        |
| Human Resource Director  | 1             | 1                     | 1                     | 1                      |
| Administrative Assistant | 0             | 0                     | 0                     | 0                      |
| <b>DEPARTMENT TOTAL</b>  | <b>1</b>      | <b>1</b>              | <b>1</b>              | <b>1</b>               |

|                 |
|-----------------|
| Human Resources |
|-----------------|

| Account                                      | Account Name                   | FY2023<br>Actual    | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|--------------------------------|---------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Human Resources Revenues                     |                                |                     |                      |                              |                               |                              |
| <b>Total Human Resources Revenues</b>        |                                | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Human Resources Expenditures                 |                                |                     |                      |                              |                               |                              |
| 100-145-5010-145                             | Human Resources Salaries       | 57,340.79           | 62,368.00            | 45,601.07                    | 60,801.43                     | 64,239.00                    |
| 100-145-5170-145                             | Human Resources Social Secur.  | 3,938.47            | 4,542.00             | 3,162.71                     | 4,216.95                      | 4,685.00                     |
| 100-145-5180-145                             | Human Resources Retirement     | 3,023.06            | 2,969.00             | 2,280.07                     | 3,040.09                      | 3,675.00                     |
| 100-145-5190-145                             | Human Resources Health Ins.    | 7,898.70            | 7,553.00             | 6,049.62                     | 8,066.16                      | 7,795.00                     |
| 100-145-5210-145                             | Human Resources Workers Comp.  | 1,580.17            | 2,601.00             | 2,600.48                     | 3,467.31                      | 2,683.00                     |
| 100-145-5260-145                             | Human Resources Prof. Services | 3,782.25            | 3,935.00             | 3,157.21                     | 4,209.61                      | 3,400.00                     |
| 100-145-5360-145                             | Human Resources Mem/Train/Trvl | 4,798.82            | 4,250.00             | 1,998.48                     | 2,664.64                      | 4,700.00                     |
| 100-145-5590-145                             | Human Resources GenSupplies    | 1,044.40            | 5,800.00             | 2,101.95                     | 2,802.60                      | 4,747.00                     |
| 100-145-5700-145                             | HR Computer/Software           | 637.21              | 6,400.00             | 917.86                       | 1,223.81                      | 1,776.00                     |
| <b>Total Human Resources Expenditures</b>    |                                | <b>\$ 84,043.87</b> | <b>\$ 100,418.00</b> | <b>\$ 67,869.45</b>          | <b>\$ 90,492.60</b>           | <b>\$ 97,700.00</b>          |
| Human Resources Other Sources                |                                |                     |                      |                              |                               |                              |
| <b>Total Human Resources Other Sources</b>   |                                | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Human Resources Other Uses                   |                                |                     |                      |                              |                               |                              |
| <b>Total Human Resources Other Uses</b>      |                                | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                | (84,043.87)         | (100,418.00)         | (67,869.45)                  | (90,492.60)                   | (97,700.00)                  |

| Human Resources       |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Muhic, Krysti        | 1    | 62,367.76 | \$ 61,238.79       | \$ 3,000.00           |                           | 4,685.00           | 3,675.00   | 7,878.72  | 2,683.00     | \$ 83,160.52               |
|                      | 1.00 | 62,367.76 | 61,238.79          | 3,000.00              | -                         | 4,685.00           | 3,675.00   | 7,878.72  | 2,683.00     | \$ 83,160.52               |
| Overtime             |      |           |                    |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      |           |                    |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 62,367.76 | 61,238.79          |                       |                           |                    |            |           |              |                            |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
|                    |                                        |

| Human Resources Expenditures |                                | Amount    | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|--------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-145-5010-145             | Human Resources Salaries       | 64,239.00 |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5170-145             | Human Resources Social Secur.  | 4,685.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5180-145             | Human Resources Retirement     | 3,675.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5190-145             | Human Resources Health Ins.    | 7,795.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5210-145             | Human Resources Workers Comp.  | 2,683.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5260-145             | Human Resources Prof. Services | 3,400.00  | CLIAwaived.com iScreen OFD 5-Panel Saliva Drug Test Kit (25/kit)- \$1000 (estimating tax and shipping)<br><a href="https://www.cliawaived.com/iscreen-ofd-5-panel-saliva-drug-test-kit.html">https://www.cliawaived.com/iscreen-ofd-5-panel-saliva-drug-test-kit.html</a> , Background checks \$1500, Pop125-\$200, Driver's/CDL check \$400, Laserfiche split with finance and city clerk \$300 |
| 100-145-5360-145             | Human Resources Mem/Train/Trvl | 4,700.00  | MIRMA Annual- \$1200; SHRM Membership Renewal- \$300; SHRM/HRCI/Misc. Training- \$1000; LAGERS- \$500; TSHRA Chapter fees \$200, MML September Conference \$1500                                                                                                                                                                                                                                 |
| 100-145-5590-145             | Human Resources GenSupplies    | 4,747.00  | Magicards, 3 ring binders, general supplies, ink cartridge, etc. \$1000; Employee Service/Appreciation End of Year Awards for 2024 (\$1500-2000) Sho-Me Expo (Booth, outlet, theme decor) \$700, Marketing Materials and misc. items for expos, job fairs, etc. - \$1000, Shirts 47                                                                                                              |
| 100-145-5700-145             | HR Computer/Software           | 1,776.00  | Encrypted email renewal- \$200 (16/mo through Stronghold), Adobe \$195.59, Firewall \$210, Office 365 \$237.53, Cyber Software \$133.33; Stronghold Microsoft Office Contract \$535, server license upgrade \$196.90                                                                                                                                                                             |
|                              |                                | 97,700.00 |                                                                                                                                                                                                                                                                                                                                                                                                  |

| Human Resources Other Sources | Amount | Justification & Supporting Information |
|-------------------------------|--------|----------------------------------------|
|                               |        |                                        |

| Human Resources Other Uses | Amount | Justification & Supporting Information |
|----------------------------|--------|----------------------------------------|
|                            |        |                                        |
|                            |        |                                        |

## Airport

Richard Leavens  
Development Services Director  
[rleavens@neoshomo.org](mailto:rleavens@neoshomo.org)

The Neosho Hugh Robinson Memorial Airport is located 3 miles south of town off of Highway 59. Its location allows are visitors easy access to our restaurants, hotels, and the historic downtown district. We offer a courtesy car for pilots and passengers who need to go to town for brief periods.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | 270,021.76        | 572,946.00            | 484,947.00                 | 680,000.00             |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | 241,860.68        | 247,320.00            | 134,519.68                 | 174,320.00             |
| Fines & Forefeitures | -                 | -                     | -                          | -                      |
| Miscellaneous        | (1,984.68)        | -                     | 2.00                       | -                      |
| Other Sources        | 5,660.04          | 5,660.00              | 4,245.03                   | 5,660.00               |
| <b>Total</b>         | <b>515,557.80</b> | <b>825,926.00</b>     | <b>623,713.71</b>          | <b>859,980.00</b>      |
|                      | \$ 0.00           | \$ -                  | \$ 0.00                    | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 77,625.61         | 89,023.00             | 64,891.47                  | 91,079.00              |
| Supplies & Materials          | 2,810.32          | 4,935.00              | 1,524.70                   | 3,235.00               |
| Maintenance & Repair          | 20,665.75         | 14,660.00             | 36,748.90                  | 12,500.00              |
| Contractual Services          | 21,674.09         | 29,877.00             | 26,272.29                  | 28,645.00              |
| Utilities                     | 20,916.10         | 19,775.00             | 12,749.37                  | 18,722.00              |
| Other Expenses                | 159,905.68        | 138,165.00            | 72,810.79                  | 138,500.00             |
| Capital                       | 50,136.19         | 727,538.00            | 481,713.09                 | 754,000.00             |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>353,733.74</b> | <b>1,023,973.00</b>   | <b>696,710.61</b>          | <b>1,046,681.00</b>    |
|                               | \$ (0.00)         | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Grant Revenue** - Increase for current project

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

**Computer Software**- Increase for Server License Upgrade

#### Decreases:

**Facility Maintenance** - Decrease in current need

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| Airport Manager         |               | 1                     | 1                     | 1                      |
| <b>DEPARTMENT TOTAL</b> |               | <b>1</b>              | <b>1</b>              | <b>1</b>               |

Airport

| Account                                      | Account Name                  | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Airport Revenues                             |                               |                      |                      |                              |                               |                              |
| 100-160-4200-160                             | Grant Revenue                 | 270,021.76           | 572,946.00           | 484,947.00                   | 646,596.00                    | 680,000.00                   |
| 100-160-4201-160                             | Grant Revenue -CARES          | -                    | -                    | -                            | -                             | -                            |
| 100-160-4400-160                             | Land Lease at Airport         | 18,567.04            | 22,000.00            | 16,471.54                    | 21,962.05                     | 22,000.00                    |
| 100-160-4410-160                             | Airport Land Lease - City     | 9,700.08             | 9,700.00             | 7,275.06                     | 9,700.08                      | 9,700.00                     |
| 100-160-4500-160                             | Airport Hangar Rentals        | 58,204.61            | 60,120.00            | 40,109.98                    | 53,479.97                     | 60,120.00                    |
| 100-160-4540-160                             | Sale of Jet Fuel              | 39,122.77            | 70,000.00            | 19,248.94                    | 25,665.25                     | 22,000.00                    |
| 100-160-4550-160                             | Sale of Aviation Gas          | 115,663.99           | 85,000.00            | 50,963.95                    | 67,951.93                     | 60,000.00                    |
| 100-160-4560-160                             | Sale of Pilot Supplies        | 602.19               | 500.00               | 450.21                       | 600.28                        | 500.00                       |
| 100-160-4800-160                             | Miscellaneous Income          | 15.32                | -                    | 2.00                         | 2.67                          | -                            |
| 100-160-4820-160                             | Airport Sale of Property      | (2,000.00)           | -                    | -                            | -                             | -                            |
| <b>Total Airport Revenues</b>                |                               | <b>\$ 509,897.76</b> | <b>\$ 820,266.00</b> | <b>\$ 619,468.68</b>         | <b>\$ 825,958.24</b>          | <b>\$ 854,320.00</b>         |
| Airport Expenditures                         |                               |                      |                      |                              |                               |                              |
| 100-160-5010-160                             | Airport Salaries              | 38,897.92            | 39,772.00            | 30,517.83                    | 40,690.44                     | 40,965.00                    |
| 100-160-5020-160                             | Airport Overtime              | 146.19               | 900.00               | 236.62                       | 315.49                        | 900.00                       |
| 100-160-5030-160                             | Airport Part Time             | 22,110.69            | 28,704.00            | 19,919.25                    | 26,559.00                     | 28,704.00                    |
| 100-160-5070-160                             | Availability Allowance        | 360.00               | 360.00               | 270.00                       | 360.00                        | 360.00                       |
| 100-160-5170-160                             | Airport Social Security       | 4,705.97             | 5,308.00             | 3,897.14                     | 5,196.19                      | 5,399.00                     |
| 100-160-5180-160                             | Airport Retirement            | 1,991.84             | 2,034.00             | 1,552.39                     | 2,069.85                      | 2,512.00                     |
| 100-160-5190-160                             | Airport Health Insurance      | 7,199.24             | 7,553.00             | 5,350.81                     | 7,134.41                      | 7,795.00                     |
| 100-160-5210-160                             | Airport Workers Compensation  | 2,011.28             | 3,039.00             | 3,037.46                     | 4,049.95                      | 3,091.00                     |
| 100-160-5260-160                             | Airport Professional Services | 8,550.79             | 10,410.00            | 8,069.20                     | 10,758.93                     | 9,960.00                     |
| 100-160-5300-160                             | Airport Insurance & Bonds     | 13,123.30            | 19,467.00            | 18,203.09                    | 24,270.79                     | 18,685.00                    |
| 100-160-5320-160                             | Airport Facility Maintenance  | 16,797.49            | 5,250.00             | 16,026.01                    | 21,368.01                     | 7,500.00                     |
| 100-160-5330-160                             | Airport Equipment Maintenance | 3,868.26             | 9,410.00             | 20,722.89                    | 27,630.52                     | 5,000.00                     |
| 100-160-5360-160                             | Membership/Training/Travel    | 122.50               | 525.00               | -                            | -                             | 525.00                       |
| 100-160-5380-160                             | Airport Uniforms              | 79.98                | 828.00               | 109.97                       | 146.63                        | 828.00                       |
| 100-160-5460-160                             | Cost of Av Gas Sold           | 117,441.45           | 74,550.00            | 52,084.19                    | 69,445.59                     | 74,550.00                    |
| 100-160-5470-160                             | Cost of Jet Fuel Sold         | 40,424.58            | 60,900.00            | 19,257.78                    | 25,677.04                     | 60,900.00                    |
| 100-160-5480-160                             | Cost of Pilot Supplies        | 639.34               | 735.00               | 549.86                       | 733.15                        | 735.00                       |
| 100-160-5530-160                             | Airport Fuels/Lubricants      | 1,578.13             | 2,100.00             | 1,138.84                     | 1,518.45                      | 2,100.00                     |
| 100-160-5590-160                             | Airport General Supplies      | 2,170.98             | 4,200.00             | 974.84                       | 1,299.79                      | 2,500.00                     |
| 100-160-5700-160                             | Airport Computer/Software     | 461.52               | 615.00               | 329.98                       | 439.97                        | 950.00                       |
| 100-160-6300-160                             | Airport Electricity           | 15,650.51            | 14,231.00            | 9,284.10                     | 12,378.80                     | 15,651.00                    |
| 100-160-6350-160                             | Airport Phones                | 5,265.59             | 5,544.00             | 3,465.27                     | 4,620.36                      | 3,071.00                     |
| 100-160-5790-160                             | Airport Capital Improvement   | -                    | -                    | -                            | -                             | -                            |
| <b>Total Airport Expenditures</b>            |                               | <b>\$ 303,597.55</b> | <b>\$ 296,435.00</b> | <b>\$ 214,997.52</b>         | <b>\$ 286,663.36</b>          | <b>\$ 292,681.00</b>         |
| Airport Other Sources                        |                               |                      |                      |                              |                               |                              |
| 100-000-3316-000                             | Transfer fm Street >Land      | 5,660.04             | 5,660.00             | 4,245.03                     | 5,660.00                      | 5,660.00                     |
| <b>Total Airport Other Sources</b>           |                               | <b>\$ 5,660.04</b>   | <b>\$ 5,660.00</b>   | <b>\$ 4,245.03</b>           | <b>\$ 5,660.00</b>            | <b>\$ 5,660.00</b>           |
| Airport Other Uses                           |                               |                      |                      |                              |                               |                              |
| 100-000-3285-160                             | Trns to Capital Improvement   | 50,136.19            | 727,538.00           | 481,713.09                   | 642,284.12                    | 754,000.00                   |
| <b>Total Airport Other Uses</b>              |                               | <b>\$ 50,136.19</b>  | <b>\$ 727,538.00</b> | <b>\$ 481,713.09</b>         | <b>\$ 642,284.12</b>          | <b>\$ 754,000.00</b>         |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                               | 161,824.06           | (198,047.00)         | (72,996.90)                  | (97,329.24)                   | (186,701.00)                 |

| Airport               |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Graves, Charles      | 1    | 39,771.42 | \$ 40,964.56       |                       | 360                       | 3,134.00           | 2,458.00   | 7,795.00  | 1,795.00     | \$ 56,506.56               |
|                      | 1.00 | 39,771.42 | 40,964.56          | -                     | 360.00                    | 3,134.00           | 2,458.00   | 7,795.00  | 1,795.00     | \$ 56,506.56               |
| Overtime             |      | 900.00    | 900.00             |                       | 46                        | 2392               | 28704      |           |              |                            |
| Part Time & Seasonal |      | 28,704.00 | 28,704.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 69,375.42 | 70,568.56          |                       |                           |                    |            |           |              |                            |

|                  |                           | Department Request |                                                                                 |
|------------------|---------------------------|--------------------|---------------------------------------------------------------------------------|
|                  |                           | Amount             | Justification & Supporting Information                                          |
| Airport Revenues | Grant Revenue             | 680,000.00         | NPE 2019- 2024- MODOT grant revenue annual amount received based on expenditure |
| 100-160-4200-160 | Land Lease at Airport     | 22,000.00          |                                                                                 |
| 100-160-4410-160 | Airport Land Lease - City | 9,700.00           |                                                                                 |
| 100-160-4500-160 | Airport Hangar Rentals    | 60,120.00          |                                                                                 |
| 100-160-4540-160 | Sale of Jet Fuel          | 22,000.00          |                                                                                 |
| 100-160-4550-160 | Sale of Aviation Gas      | 60,000.00          |                                                                                 |
| 100-160-4560-160 | Sale of Pilot Supplies    | 500.00             | 5 Year Historical                                                               |
| 100-160-4820-160 | Airport Sale of Property  |                    | Timber Sales                                                                    |
|                  |                           | 854,320.00         |                                                                                 |

|                      |                               | Amount     | Justification & Supporting Information                                                                                                                                                                                                                          |
|----------------------|-------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Airport Expenditures | Airport Salaries              | 40,965.00  |                                                                                                                                                                                                                                                                 |
| 100-160-5010-160     | Airport Overtime              | 900.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5020-160     | Airport Part Time             | 28,704.00  | John works 20 , Roger 26 hours                                                                                                                                                                                                                                  |
| 100-160-5030-160     | Availability Allowance        | 360.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5070-160     | Airport Social Security       | 5,399.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5170-160     | Airport Retirement            | 2,512.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5180-160     | Airport Health Insurance      | 7,795.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5190-160     | Airport Workers Compensation  | 3,091.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5210-160     | Airport Professional Services | 9,960.00   | Pest Control \$500, Precision Line Test \$500, Fire Inspection \$350, DNR permit \$2800, Stormwater Testing \$1200, QT Annual Agreement \$1425, Stronghold \$1300, AED \$50, Floor wax \$1,000, Alarm Monitor \$335, Portable fire suppression inspection \$500 |
| 100-160-5260-160     | Airport Insurance & Bonds     | 18,685.00  | Property Ins                                                                                                                                                                                                                                                    |
| 100-160-5300-160     | Airport Facility Maintenance  | 7,500.00   | Seal Parking lot \$2,500                                                                                                                                                                                                                                        |
| 100-160-5320-160     | Airport Equipment Maintenance | 5,000.00   | annual maintenance on fuel truck and tanks \$1200                                                                                                                                                                                                               |
| 100-160-5330-160     | Membership/Training/Travel    | 525.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5360-160     | Airport Uniforms              | 828.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5380-160     | Cost of Av Gas Sold           | 74,550.00  |                                                                                                                                                                                                                                                                 |
| 100-160-5460-160     | Cost of Jet Fuel Sold         | 60,900.00  |                                                                                                                                                                                                                                                                 |
| 100-160-5470-160     | Cost of Pilot Supplies        | 735.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5480-160     | Airport Fuels/Lubricants      | 2,100.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5530-160     | Airport General Supplies      | 2,500.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5590-160     | Airport Computer/Software     | 950.00     | Firewall \$210, Office 365 \$237.53, Cyber Software \$133.33, Wifi booster \$270, server license upgrade \$98.45                                                                                                                                                |
| 100-160-5700-160     | Airport Electricity           | 15,651.00  |                                                                                                                                                                                                                                                                 |
| 100-160-6300-160     | Airport Phones                | 3,071.00   |                                                                                                                                                                                                                                                                 |
|                      |                               | 292,681.00 |                                                                                                                                                                                                                                                                 |



|                       |                          |          |                                        |
|-----------------------|--------------------------|----------|----------------------------------------|
| Airport Other Sources |                          | Amount   | Justification & Supporting Information |
| 100-000-3316-000      | Transfer fm Street >Land | 5,660.00 |                                        |

|                    |                             |            |                                                                                         |
|--------------------|-----------------------------|------------|-----------------------------------------------------------------------------------------|
| Airport Other Uses |                             | Amount     | Justification & Supporting Information                                                  |
| 100-000-3285-160   | Trns to Capital Improvement | 754,000.00 | T-Hanger - \$680,000 with City funds of \$63,000, Slurry Seal<br>Terry Johnson \$11,000 |

## Public Safety Tax

David Kennedy  
City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

On June 2, 2020, the voters of the City of Neosho approved an additional 1/2% city general sales tax under RSMo 94.510. The tax will go towards increasing salaries for our emergency services personnel to hire and retain qualified employees and for Capital Purchases for Police and Fire. Emergency Management services capital projects will also be funded through this public safety tax.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 1,665,997.53        | 1,546,225.00          | 1,216,487.30               | 1,546,225.00           |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 5,874.35            | 1,000.00              | 41,355.20                  | 55,000.00              |
| Other Sources        | -                   | -                     | -                          | -                      |
| <b>Total</b>         | <b>1,671,871.88</b> | <b>1,547,225.00</b>   | <b>1,257,842.50</b>        | <b>1,601,225.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                   | -                     | -                          | -                      |
| Supplies & Materials          | -                   | -                     | -                          | -                      |
| Maintenance & Repair          | -                   | -                     | -                          | -                      |
| Contractual Services          | -                   | -                     | -                          | -                      |
| Utilities                     | -                   | -                     | -                          | -                      |
| Other Expenses                | -                   | -                     | -                          | -                      |
| Capital                       | -                   | -                     | -                          | -                      |
| Other Uses                    | 1,183,872.10        | 1,316,206.00          | 1,362,168.00               | 2,144,454.00           |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,183,872.10</b> | <b>1,316,206.00</b>   | <b>1,362,168.00</b>        | <b>2,144,454.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

Architectural Fees increased transfer to Police

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No FTE                  |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

|                   |
|-------------------|
| Public Safety Tax |
|-------------------|

| Account                                      | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Public Safety Tax Revenues                   |                               |                        |                        |                              |                               |                              |
| 100-199-4031-199                             | Public Safety Tax             | 1,665,997.53           | 1,546,225.00           | 1,216,487.30                 | 1,621,983.07                  | 1,546,225.00                 |
| 100-199-4700-199                             | Public Safety Interest Earned | 5,874.35               | 1,000.00               | 41,355.20                    | 55,140.27                     | 55,000.00                    |
| <b>Total Public Safety Tax Revenues</b>      |                               | <b>\$ 1,671,871.88</b> | <b>\$ 1,547,225.00</b> | <b>\$ 1,257,842.50</b>       | <b>\$ 1,677,123.33</b>        | <b>\$ 1,601,225.00</b>       |
| Public Safety Tax Expenditures               |                               |                        |                        |                              |                               |                              |
| <b>Total Public Safety Tax Expenditures</b>  |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Public Safety Tax Other Sources              |                               |                        |                        |                              |                               |                              |
| <b>Total Public Safety Tax Other Sources</b> |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Public Safety Tax Other Uses                 |                               |                        |                        |                              |                               |                              |
| 100-000-3205-000                             | Transfer to Fire Dept         | 847,488.10             | 753,748.00             | 565,317.00                   | 753,748.00                    | 866,763.00                   |
| 100-000-3205-120                             | Trns to Police Department     | 317,688.00             | 522,411.00             | 766,809.00                   | 522,411.00                    | 1,237,547.00                 |
| 100-000-3205-144                             | Trns to Emergency Mgmt        | 18,696.00              | 20,047.00              | 15,039.00                    | 20,047.00                     | 20,144.00                    |
| 100-000-3205-110                             | Trns to General               | -                      | 20,000.00              | 15,003.00                    | 20,000.00                     | 20,000.00                    |
| <b>Total Public Safety Tax Other Uses</b>    |                               | <b>\$ 1,183,872.10</b> | <b>\$ 1,316,206.00</b> | <b>\$ 1,362,168.00</b>       | <b>\$ 1,316,206.00</b>        | <b>\$ 2,144,454.00</b>       |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                               | 487,999.78             | 231,019.00             | (104,325.50)                 | 360,917.33                    | (543,229.00)                 |

| Public Safety Tax     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | -        |
| Retirement Rate       | -        |

Payroll Detail

| FTE                                   | #     | FY2020       | FY2025 Budgeted | Increase   |      |
|---------------------------------------|-------|--------------|-----------------|------------|------|
| Police Department Salaries & Benefits | 25.00 | 1,745,554.00 | \$ 1,882,702.00 | 137,148.00 | 0.08 |
| Fire Department Salaries & Benefits   | 27.00 | 1,566,920.00 | \$ 1,948,698.00 | 381,778.00 | 0.24 |
|                                       | 52.00 | 3,312,474.00 | 3,831,400.00    | 518,926.00 |      |

|                                 |                               | Department Request |                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
| Public Safety Tax Revenues      |                               | 1,546,225.00       |                                                                                                                                                                                                                                                                                                                                                         |
| 100-199-4031-199                | Public Safety Tax             | 55,000.00          |                                                                                                                                                                                                                                                                                                                                                         |
| 100-199-4700-199                | Public Safety Interest Earned |                    |                                                                                                                                                                                                                                                                                                                                                         |
|                                 |                               | 1,601,225.00       |                                                                                                                                                                                                                                                                                                                                                         |
| Public Safety Tax Expenditures  |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
|                                 |                               | -                  |                                                                                                                                                                                                                                                                                                                                                         |
| Public Safety Tax Other Sources |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
| Public Safety Tax Other Uses    |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
| 100-000-3205-000                | Transfer to Fire Dept         | 866,763.00         | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000                                                                                                                                                                                                                      |
| 100-000-3205-120                | Trns to Police Department     | 1,237,547.00       | Patrol Cars 2 \$80,000 would allow \$5000 trade in each \$3000 WolfCom redaction advanced software, needed to redact certain items from body cam video, (2) Fujitsu Fi-8170 Document scanners \$1300 to replace both clerk's scanners, HP Enterprise printer for report room \$1099. Architect \$1,000,000, Demo and Testing 301 Wood Property \$15,000 |
| 100-000-3205-144                | Trns to Emergency Mgmt        | 20,144.00          |                                                                                                                                                                                                                                                                                                                                                         |
| 100-000-3205-110                | Trns to General               | 20,000.00          |                                                                                                                                                                                                                                                                                                                                                         |
|                                 |                               |                    |                                                                                                                                                                                                                                                                                                                                                         |

## IOOF Cemetery

Cheyenne Wright

City Clerk

[Cwright@neoshomo.org](mailto:Cwright@neoshomo.org)

The Neosho IOOF Cemetery was developed as a community cemetery in 1855. In recent years, the cemetery had become difficult to maintain by the Neosho IOOF Board due to financial and employment difficulties. The City of Neosho accepted the IOOF Cemetery on November 5th, 2019 per Missouri State Legislative actions, ultimately stating local political subdivisions must assure the continued presence, care, and upkeep of its cemeteries

| Revenue Category     | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                | -                     | -                          | -                      |
| Intergovernmental    | -                | -                     | -                          | -                      |
| Licenses & Permits   | -                | -                     | -                          | -                      |
| Charges for Services | 40,000.00        | 48,000.00             | 27,600.00                  | 32,000.00              |
| Fines & Forfeitures  | -                | -                     | -                          | -                      |
| Miscellaneous        | 4,500.00         | 3,500.00              | 3,483.00                   | 3,500.00               |
| Other Sources        | -                | -                     | -                          | -                      |
| <b>Total</b>         | <b>44,500.00</b> | <b>51,500.00</b>      | <b>31,083.00</b>           | <b>35,500.00</b>       |
|                      | \$ -             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 15,115.52         | 13,214.00             | 10,413.98                  | 13,014.00              |
| Supplies & Materials          | -                 | 725.00                | 215.47                     | 925.00                 |
| Maintenance & Repair          | 4,558.06          | 16,376.00             | 476.71                     | 11,576.00              |
| Contractual Services          | 105,360.01        | 132,052.00            | 93,974.12                  | 134,226.00             |
| Utilities                     | 502.17            | 571.00                | 328.47                     | 571.00                 |
| Other Expenses                | -                 | 420.00                | -                          | 420.00                 |
| Capital                       | 69,899.28         | 91,107.00             | 41,400.30                  | 39,000.00              |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>195,435.04</b> | <b>254,465.00</b>     | <b>146,809.05</b>          | <b>199,732.00</b>      |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

#### Decreases:

**Capital** - Decrease as a result of need

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Cemetery Manager        | 0.2           | 0.16                  | 0.16                  | 0.16                   |
| <b>DEPARTMENT TOTAL</b> | <b>0.2</b>    | <b>0.16</b>           | <b>0.16</b>           | <b>0.16</b>            |

|               |
|---------------|
| IOOF Cemetery |
|---------------|

| Account                                      | Account Name                    | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|---------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| IOOF Cemetery Revenues                       |                                 |                      |                      |                              |                               |                              |
| 100-204-4420-204                             | Plot Sales                      | 16,900.00            | 20,000.00            | 7,150.00                     | 9,533.33                      | 9,000.00                     |
| 100-204-4524-204                             | Burial Fees                     | 23,100.00            | 28,000.00            | 20,450.00                    | 27,266.67                     | 23,000.00                    |
| 100-204-4700-204                             | Interest Earned                 | -                    | -                    | -                            | -                             | -                            |
| 100-204-4800-204                             | Cemetery Miscellaneous Revenue  | 482.00               | -                    | 758.00                       | 758.00                        | -                            |
| 100-204-4990-204                             | Cemetery Donations              | 4,018.00             | 3,500.00             | 2,725.00                     | 3,633.33                      | 3,500.00                     |
| <b>Total IOOF Cemetery Revenues</b>          |                                 | <b>\$ 44,500.00</b>  | <b>\$ 51,500.00</b>  | <b>\$ 31,083.00</b>          | <b>\$ 41,191.33</b>           | <b>\$ 35,500.00</b>          |
| IOOF Cemetery Expenditures                   |                                 |                      |                      |                              |                               |                              |
| 100-204-5010-204                             | IOOF Salaries                   | 12,077.27            | 10,000.00            | 8,011.29                     | 10,681.72                     | 10,000.00                    |
| 100-204-5170-204                             | IOOF Social Security            | 853.21               | 765.00               | 558.23                       | 744.31                        | 765.00                       |
| 100-204-5180-204                             | IOOF Retirement                 | 637.01               | 500.00               | 400.53                       | 534.04                        | 600.00                       |
| 100-204-5190-204                             | IOOF Health Insurance           | 1,548.03             | 1,511.00             | 1,005.93                     | 1,341.24                      | 1,211.00                     |
| 100-204-5210-204                             | IOOF Workers Compensation       | -                    | 438.00               | 438.00                       | 584.00                        | 438.00                       |
| 100-204-5260-204                             | I.O.O.F. Professional Services  | 88,380.45            | 110,035.00           | 77,102.20                    | 102,802.93                    | 111,402.00                   |
| 100-204-5262-204                             | I.O.O.F. Burial Costs           | 16,270.00            | 21,000.00            | 15,880.00                    | 21,173.33                     | 21,630.00                    |
| 100-204-5300-204                             | Cemetery Insurance & Bonds      | 709.56               | 1,017.00             | 991.92                       | 900.00                        | 1,194.00                     |
| 100-204-5320-204                             | Cemetery Facility Maintenance   | 94.19                | 4,526.00             | (8.64)                       | (11.52)                       | 4,526.00                     |
| 100-204-5325-204                             | Grounds Maintenance             | 2,496.16             | 10,600.00            | 485.35                       | 647.13                        | 5,800.00                     |
| 100-204-5330-204                             | Cemetery Equipment Maintenance  | 1,967.71             | 1,250.00             | -                            | -                             | 1,250.00                     |
| 100-204-5530-204                             | Cemetery Fuels/Lubricants       | -                    | 420.00               | -                            | -                             | 420.00                       |
| 100-204-5590-204                             | General Supplies                | -                    | 725.00               | 215.47                       | 287.29                        | 925.00                       |
| 100-204-6300-204                             | I.O.O.F. Electricity Costs      | 502.17               | 571.00               | 328.47                       | 437.96                        | 571.00                       |
| <b>Total IOOF Cemetery Expenditures</b>      |                                 | <b>\$ 125,535.76</b> | <b>\$ 163,358.00</b> | <b>\$ 105,408.75</b>         | <b>\$ 140,122.44</b>          | <b>\$ 160,732.00</b>         |
| IOOF Cemetery Other Sources                  |                                 |                      |                      |                              |                               |                              |
| <b>Total IOOF Cemetery Other Sources</b>     |                                 | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| IOOF Cemetery Other Uses                     |                                 |                      |                      |                              |                               |                              |
| 100-000-3285-204                             | Transfer to Capital Improvement | 69,899.28            | 91,107.00            | 41,400.30                    | 16,953.40                     | 39,000.00                    |
| <b>Total IOOF Cemetery Other Uses</b>        |                                 | <b>\$ 69,899.28</b>  | <b>\$ 91,107.00</b>  | <b>\$ 41,400.30</b>          | <b>\$ 16,953.40</b>           | <b>\$ 39,000.00</b>          |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                 | (150,935.04)         | (202,965.00)         | (115,726.05)                 | (115,884.51)                  | (164,232.00)                 |
| Restricted Fund Balance                      |                                 |                      |                      |                              |                               |                              |
| Trust                                        |                                 | 154,680.59           | 154,680.59           | 161,642.90                   | 161,642.90                    | 161,642.90                   |

| I.O.O.F. Cemetery     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE              | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Wright, Cheyenne | 16%  | 10,000.00 | \$ 10,000.00       |                       |                           | 765.00             | 600.00     | 1,211.00  | 438.00       | \$ 13,014.00               |
|                  | 0.16 | 10,000.00 | 10,000.00          | -                     | -                         | 765.00             | 600.00     | 1,211.00  | 438.00       | \$ 13,014.00               |

|                      |           |           |
|----------------------|-----------|-----------|
| Overtime             |           |           |
| Part Time & Seasonal |           |           |
| Total Salaries       | 10,000.00 | 10,000.00 |

| Department Request                              |           |                                        |
|-------------------------------------------------|-----------|----------------------------------------|
| I.O.O.F. Cemetery Revenues                      | Amount    | Justification & Supporting Information |
| 100-204-4420-204 Plot Sales                     | 9,000.00  |                                        |
| 100-204-4524-204 Burial Fees                    | 23,000.00 |                                        |
| 100-204-4700-204 Interest Earned                |           |                                        |
| 100-204-4800-204 Cemetery Miscellaneous Revenue |           |                                        |
| 100-204-4990-204 Cemetery Donations             | 3,500.00  |                                        |
|                                                 | 35,500.00 |                                        |

| I.O.O.F. Cemetery Expenditures                  | Amount     | Justification & Supporting Information                                                               |
|-------------------------------------------------|------------|------------------------------------------------------------------------------------------------------|
| 100-204-5010-204 IOOF Salaries                  | 10,000.00  |                                                                                                      |
| 100-204-5170-204 IOOF Social Security           | 765.00     |                                                                                                      |
| 100-204-5180-204 IOOF Retirement                | 600.00     |                                                                                                      |
| 100-204-5190-204 IOOF Health Insurance          | 1,211.00   |                                                                                                      |
| 100-204-5210-204 IOOF Workers Compensation      | 438.00     |                                                                                                      |
| 100-204-5260-204 I.O.O.F. Professional Services | 111,402.00 | \$108000 Groundskeeping; Pest Control; Alarm Monitoring; Recorder Fees, Cemsite annual fee \$2866.50 |
| 100-204-5262-204 I.O.O.F. Burial Costs          | 21,630.00  |                                                                                                      |
| 100-204-5300-204 Cemetery Insurance & Bonds     | 1,194.00   | Property Ins                                                                                         |
| 100-204-5320-204 Cemetery Facility Maintenance  | 4,526.00   |                                                                                                      |
| 100-204-5325-204 Grounds Maintenance            | 5,800.00   | Signage \$200, Tree removal \$5,000, stone repairs \$600                                             |
| 100-204-5330-204 Cemetery Equipment Maintenance | 1,250.00   |                                                                                                      |
| 100-204-5530-204 Cemetery Fuels/Lubricants      | 420.00     |                                                                                                      |
| 100-204-5590-204 General Supplies               | 925.00     | flags \$200                                                                                          |
| 100-204-6300-204 I.O.O.F. Electricity Costs     | 571.00     |                                                                                                      |
|                                                 | 160,732.00 |                                                                                                      |

| I.O.O.F. Cemetery Other Sources | Amount | Justification & Supporting Information |
|---------------------------------|--------|----------------------------------------|
|                                 |        |                                        |

| I.O.O.F. Cemetery Other Uses                     | Amount    | Justification & Supporting Information    |
|--------------------------------------------------|-----------|-------------------------------------------|
| 100-000-3285-204 Transfer to Capital Improvement | 39,000.00 | Cemetery Roads \$35,000, Surveyor \$4,000 |
|                                                  |           |                                           |

## Fire Department

Aaron Houk

Fire Chief

[ahouk@neoshomo.org](mailto:ahouk@neoshomo.org)

The Fire Department's mission is to assist the citizens of Neosho through prevention, planning, education and action. The Fire Department is funded by a 1/4 of 1% sales tax, a 1/2 of 1% public safety tax, a contract with the Neosho Area Fire Protection District, and the City's General Fund.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 999,399.94          | 909,973.00            | 859,196.74                 | 976,309.00             |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | -                   | -                     | -                          | -                      |
| Other Sources        | 2,139,581.96        | 1,468,499.00          | 1,101,384.00               | 1,521,690.00           |
| <b>Total</b>         | <b>3,138,981.90</b> | <b>2,378,472.00</b>   | <b>1,960,580.74</b>        | <b>2,497,999.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 1,813,656.50        | 1,860,258.00          | 1,387,720.51               | 1,957,948.00           |
| Supplies & Materials          | 8,911.16            | 10,025.00             | 5,714.25                   | 10,590.00              |
| Maintenance & Repair          | 64,882.29           | 54,742.00             | 57,058.88                  | 61,100.00              |
| Contractual Services          | 54,896.92           | 88,948.00             | 67,804.99                  | 105,744.00             |
| Utilities                     | 44,095.65           | 42,730.00             | 30,531.79                  | 32,522.00              |
| Other Expenses                | 56,072.77           | 61,369.00             | 21,900.55                  | 82,633.00              |
| Capital                       | 1,134,002.20        | 640,345.00            | 289,000.84                 | 484,985.00             |
| Other Uses                    | -                   | -                     | -                          | -                      |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>3,176,517.49</b> | <b>2,758,417.00</b>   | <b>1,859,731.81</b>        | <b>2,735,522.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Professional Services** - Ladder maintenance agreement, engineering services, SCBA Testing services

**Facility Maintenance** - Replace HVAC Station 2

**Increase in base salary** of 6%

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

#### Decreases:

| Staffing Levels          | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|--------------------------|---------------|-----------------------|-----------------------|------------------------|
| Fire Chief               | 1             | 1                     | 1                     | 1                      |
| Deputy Chief             |               |                       |                       | 1                      |
| Battalion Chief          | 3             | 3                     | 3                     | 3                      |
| Captain                  | 3             | 3                     | 3                     | 3                      |
| Training Chief           |               |                       |                       |                        |
| Engineer                 | 12            | 12                    | 12                    | 12                     |
| Firefighter              | 6             | 6                     | 6                     | 6                      |
| Administrative Assistant | 1             | 1                     | 1                     | 1                      |
| Marshall                 | 1             | 1                     |                       |                        |
| <b>DEPARTMENT TOTAL</b>  | <b>27</b>     | <b>27</b>             | <b>27</b>             | <b>27</b>              |



|                 |
|-----------------|
| Fire Department |
|-----------------|

| Account                                                  | Account Name                   | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------------------|--------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Fire Department Revenues                                 |                                |                        |                        |                              |                               |                              |
| 130-130-4030-130                                         | Fire Department Sales Tax      | 838,035.53             | 678,809.00             | 610,381.23                   | 813,841.64                    | 678,809.00                   |
| 130-130-4150-130                                         | Fire Department Fees           | 230.00                 | 300.00                 | 370.00                       | 493.33                        | -                            |
| 130-130-4200-130                                         | Grant Revenues                 | 17,630.00              | 105,000.00             | 94,884.86                    | 126,513.15                    | 167,500.00                   |
| 130-130-4760-130                                         | Insurance Proceeds             | -                      | -                      | 10,456.11                    | 13,941.48                     | -                            |
| 130-130-4800-130                                         | Fire Department Miscellaneous  | 16,313.94              | -                      | 675.00                       | 900.00                        | -                            |
| 130-130-4820-130                                         | Fire Sale of Property          | 591.05                 | -                      | -                            | -                             | -                            |
| 130-130-4850-130                                         | Contract: Fire District        | 125,863.20             | 125,864.00             | 130,000.00                   | 173,333.33                    | 130,000.00                   |
| 130-130-4990-130                                         | Donations - Fire Dept.         | 40.00                  | -                      | 70.00                        | 93.33                         | -                            |
| <b>Total Fire Department Revenues</b>                    |                                | <b>\$ 999,399.94</b>   | <b>\$ 909,973.00</b>   | <b>\$ 859,196.74</b>         | <b>\$ 1,145,595.65</b>        | <b>\$ 976,309.00</b>         |
| Fire Department Expenditures                             |                                |                        |                        |                              |                               |                              |
| 130-130-5010-130                                         | Fire Dept Salaries             | 1,168,296.05           | 1,229,372.00           | 910,580.58                   | 1,229,372.00                  | 1,287,459.00                 |
| 130-130-5020-130                                         | Fire Dept Overtime             | 153,560.16             | 134,000.00             | 126,282.45                   | 168,376.60                    | 134,000.00                   |
| 130-130-5030-130                                         | Fire Dept Part Time            | 330.20                 | 3,500.00               | 432.60                       | 576.80                        | 3,500.00                     |
| 130-130-5070-130                                         | Availability Allowance         | 1,635.00               | 1,800.00               | 1,155.00                     | 1,540.00                      | 3,240.00                     |
| 130-130-5170-130                                         | Fire Dept Social Security      | 97,148.78              | 104,528.00             | 76,934.27                    | 104,528.00                    | 113,997.00                   |
| 130-130-5180-130                                         | Fire Dept Retirement           | 114,151.77             | 111,797.00             | 80,176.54                    | 111,797.00                    | 130,775.00                   |
| 130-130-5190-130                                         | Fire Dept Health Insurance     | 195,450.75             | 203,923.00             | 133,421.56                   | 203,923.00                    | 210,458.00                   |
| 130-130-5210-130                                         | Fire Dept Workers Compensation | 77,977.89              | 59,848.00              | 56,973.16                    | 59,848.00                     | 65,269.00                    |
| 130-130-5230-130                                         | Physicals                      | 514.08                 | 1,500.00               | 147.60                       | 196.80                        | 1,500.00                     |
| 130-130-5260-130                                         | Fire Dept Prof. Services       | 33,027.30              | 52,336.00              | 30,750.62                    | 41,000.83                     | 61,320.00                    |
| 130-130-5300-130                                         | Fire Dept Insurance and Bonds  | 21,355.54              | 35,112.00              | 36,906.77                    | 49,209.03                     | 42,924.00                    |
| 130-130-5320-130                                         | Fire Dept Facility Maintenance | 19,103.42              | 15,500.00              | 4,511.89                     | 6,015.85                      | 31,600.00                    |
| 130-130-5330-130                                         | Fire Dept Equipment Maint.     | 45,778.87              | 39,242.00              | 52,546.99                    | 70,062.65                     | 29,500.00                    |
| 130-130-5360-130                                         | Fire Dept Member/Train/Trvl    | 4,605.90               | 7,990.00               | 1,764.35                     | 2,352.47                      | 2,850.00                     |
| 130-130-5380-130                                         | Fire Dept Uniforms             | -                      | 1,100.00               | -                            | -                             | 4,000.00                     |
| 130-130-5530-130                                         | Fire Dept Fuels/Lubricants     | 17,567.52              | 15,750.00              | 13,399.61                    | 17,866.15                     | 15,750.00                    |
| 130-130-5540-130                                         | Fire Dept Chemicals            | 474.12                 | 525.00                 | 419.30                       | 559.07                        | 1,130.00                     |
| 130-130-5590-130                                         | Fire Dept General Supplies     | 8,437.04               | 9,500.00               | 5,294.95                     | 7,059.93                      | 9,460.00                     |
| 130-130-5700-130                                         | Fire Dept Comp., Software      | 8,137.08               | 11,724.00              | 3,782.10                     | 5,042.80                      | 15,225.00                    |
| 130-130-6300-130                                         | Fire Dept Electricity          | 16,690.89              | 15,430.00              | 9,988.83                     | 13,318.44                     | 15,430.00                    |
| 130-130-6310-130                                         | Fire Dept Heating Fuels        | 7,794.30               | 8,400.00               | 6,597.79                     | 8,797.05                      | 8,400.00                     |
| 130-130-6350-130                                         | Fire Dept Phones               | 19,610.46              | 18,900.00              | 13,945.17                    | 18,593.56                     | 8,692.00                     |
| 130-130-6380-130                                         | Lease Purchase Payments        | 47,604.56              | -                      | -                            | -                             | -                            |
| 130-130-6390-130                                         | Fire Dept. Minor Equipment     | 30,368.17              | 33,895.00              | 4,718.84                     | 4,718.84                      | 51,658.00                    |
| 130-130-5361-130                                         | Fire Academy Training          | 500.00                 | 2,400.00               | -                            | -                             | 2,400.00                     |
| <b>Total Fire Department Expenditures</b>                |                                | <b>\$ 2,090,119.85</b> | <b>\$ 2,118,072.00</b> | <b>\$ 1,570,730.97</b>       | <b>\$ 2,124,754.87</b>        | <b>\$ 2,250,537.00</b>       |
| Fire Department Other Sources                            |                                |                        |                        |                              |                               |                              |
| 130-000-3305-000                                         | Transfer fm Public Safety Fund | 847,488.10             | 753,748.00             | 565,317.00                   | 753,748.00                    | 866,763.00                   |
| 130-000-3330-000                                         | Transfer fm General            | 1,292,093.86           | 714,751.00             | 536,067.00                   | 714,751.00                    | 654,927.00                   |
| <b>Total Fire Department Other Sources</b>               |                                | <b>\$ 2,139,581.96</b> | <b>\$ 1,468,499.00</b> | <b>\$ 1,101,384.00</b>       | <b>\$ 1,468,499.00</b>        | <b>\$ 1,521,690.00</b>       |
| Fire Department Other Uses                               |                                |                        |                        |                              |                               |                              |
| 130-000-3285-000                                         | Trns to Capital Improvement    | 1,086,397.64           | 640,345.00             | 289,000.84                   | 289,000.84                    | 484,985.00                   |
| <b>Total Fire Department Other Uses</b>                  |                                | <b>\$ 1,086,397.64</b> | <b>\$ 640,345.00</b>   | <b>\$ 289,000.84</b>         | <b>\$ 289,000.84</b>          | <b>\$ 484,985.00</b>         |
| Change in Fund Balance                                   |                                | (37,535.59)            | (379,945.00)           | 100,848.93                   | 200,338.95                    | (237,523.00)                 |
| <b>Fire Department Beginning Fund Balance"October 1"</b> |                                | <b>\$ 641,074.00</b>   | <b>\$ 603,538.41</b>   | <b>\$ 603,538.41</b>         | <b>\$ 603,538.41</b>          | <b>\$ 803,877.36</b>         |

| Account                                              | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|------------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Total Fire Department Funding Sources                |              | \$ 3,780,055.90  | \$ 2,982,010.41  | \$ 2,564,119.15     | \$ 3,217,633.06  | \$ 3,301,876.36  |
| Total Fire Department Funding Uses                   |              | \$ 3,176,517.49  | \$ 2,758,417.00  | \$ 1,859,731.81     | \$ 2,413,755.71  | \$ 2,735,522.00  |
| Fire Department Beginning Fund Balance"September 30" |              | \$ 603,538.41    | \$ 223,593.41    | \$ 704,387.34       | \$ 803,877.36    | \$ 566,354.36    |

|                |               |
|----------------|---------------|
| 90-Day Reserve | \$ 554,926.93 |
|----------------|---------------|

|              |       |
|--------------|-------|
| Days reserve | 91.85 |
|--------------|-------|

| Fire Sales Tax        |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 9.20%    |

Payroll Detail

| FTE                  | #     | FY2024       | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance  | Work Comp | Total Salary &<br>Benefits |
|----------------------|-------|--------------|--------------------|-----------------------|---------------------------|--------------------|------------|------------|-----------|----------------------------|
| Houk, Aaron          | 1     | 75,358.92    | \$ 77,619.69       |                       | 360                       | 5,938.00           | 7,142.00   | 7,795.00   | 3,400.00  | \$ 102,254.69              |
| Williams, Derek      | 1     | 64,138.36    | \$ 66,062.51       |                       | 360                       | 5,054.00           | 6,078.00   | 7,795.00   | 2,894.00  | \$ 88,243.51               |
| Christainsen, Daniel | 1     | 38,064.69    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   |            | 1,772.00  | \$ 49,023.16               |
| Dobbs, Spencer       | 1     | 38,064.69    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Rogers, John         | 1     | 52,252.72    | \$ 55,050.89       |                       | 360                       | 4,212.00           | 5,065.00   | 7,878.72   | 2,412.00  | \$ 74,978.61               |
| Forester, Billy      | 1     | 36,554.70    | \$ 39,206.63       |                       |                           | 3,000.00           | 3,608.00   | 7,795.00   | 1,718.00  | \$ 55,327.63               |
| Cockrum, Jason       | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Lake, Dennis         | 1     | 38,064.69    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Solomon, Mark        | 1     | 45,158.88    | \$ 46,603.62       |                       |                           | 3,566.00           | 4,288.00   | 7,990.36   | 2,042.00  | \$ 64,489.98               |
| Davis, Michael Beau  | 1     | 52,252.72    | \$ 55,050.89       |                       | 360                       | 4,212.00           | 5,065.00   | 7,795.00   | 2,412.00  | \$ 74,894.89               |
| Kelly, Taylor        | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Bracht, Travis       | 1     | 47,477.30    | \$ 50,130.90       |                       | 360                       | 3,836.00           | 4,613.00   | 7,795.00   | 2,196.00  | \$ 68,930.90               |
| Vaughn,Trenton       | 1     | 36,554.70    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Pim, Jacob           | 1     | 47,477.30    | \$ 50,130.90       |                       | 360                       | 3,836.00           | 4,613.00   | 7,795.00   | 2,196.00  | \$ 68,930.90               |
| Doke, Phillip        | 1     | 43,965.74    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Parsons, Lance       | 1     | 52,252.72    | \$ 55,050.89       |                       | 360                       | 4,212.00           | 5,065.00   | 7,878.72   | 2,412.00  | \$ 74,978.61               |
| Burns, Brandon       | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| McKee, Zachary       | 1     | 38,064.78    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Naugle, Lawrence Dan | 1     | 47,477.30    | \$ 50,130.90       |                       | 360                       | 3,836.00           | 4,613.00   | 7,878.72   | 2,196.00  | \$ 69,014.62               |
| Pringle, Shelby      | 1     | 40,881.10    | \$ 42,107.53       |                       | \$ 360.00                 | 3,222.00           | 3,874.00   | 7,795.00   | 1,845.00  | \$ 59,203.53               |
| Sanders, Mark        | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Hutchens, Christen   | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Hammonds, Tyler      | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Ridenour, Caleb      | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Chapman, Zachary     | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Nance, Shawn         | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Sanders, Nathan      | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
|                      | 27.00 | 1,221,771.71 | 1,287,458.62       | -                     | 3,240.00                  | 98,509.00          | 118,466.00 | 203,116.53 | 56,407.00 | \$ 1,767,197.15            |
|                      |       |              | 65,686.91          |                       |                           |                    |            |            |           |                            |

| Current Estimate     |            | Proposed   |
|----------------------|------------|------------|
| Overtime             | 168,376.60 | 134,000.00 |
| Part Time & Seasonal | 576.80     | 3,000.00   |

|                |              |              |
|----------------|--------------|--------------|
| Total Salaries | 1,390,725.11 | 1,490,145.53 |
|----------------|--------------|--------------|

| Department Request |                                        |            |
|--------------------|----------------------------------------|------------|
| Amount             | Justification & Supporting Information |            |
| 130-130-4030-130   | Fire Department Sales Tax              | 678,809.00 |
| 130-130-4150-130   | Fire Department Fees                   |            |
| 130-130-4200-130   | Grant Revenues                         |            |
|                    |                                        | \$167,500  |
| 130-130-4850-130   | Contract: Fire District                | 130,000.00 |
|                    |                                        |            |
|                    |                                        | 976,309.00 |

| Department Request |                                        |                                       |
|--------------------|----------------------------------------|---------------------------------------|
| Amount             | Justification & Supporting Information |                                       |
| 130-130-5010-130   | Fire Dept Salaries                     | 1,287,459.00                          |
| 130-130-5020-130   | Fire Dept Overtime                     | 134,000.00                            |
| 130-130-5030-130   | Fire Dept Part Time                    | 3,500.00                              |
| 130-130-5070-130   | Availability Allowance                 | 3,240.00                              |
| 130-130-5170-130   | Fire Dept Social Security              | 113,997.00                            |
| 130-130-5180-130   | Fire Dept Retirement                   | 130,775.00                            |
| 130-130-5190-130   | Fire Dept Health Insurance             | 210,458.00                            |
| 130-130-5210-130   | Fire Dept Workers Compensation         | 65,269.00                             |
| 130-130-5230-130   | Physicals                              | 1,500.00                              |
|                    |                                        | Return to work Physicals after injury |

Fire Sales Tax Expenditures

130-130-5260-130 Fire Dept Prof. Services

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 61,320.00    | Pest Control \$1,000, Airgas Lease \$175, Ladder Testing \$3,100, Reporting software \$12,000, SCBA Testing \$3,285, Copier Mtce \$650, BAM unit Mtce \$1,700, Pump testing \$2,250, Stronghold \$14,316, Air Sample Testing \$800, AED testing, \$550, AT&T Air connection \$4,860, Cummins Generator service \$660, SCBA Fit testing \$850, Ladder Maintenance (25 hour req'd maint ) \$7,500 (\$1,500 per visit, est. @ 5 visits), Superion \$1779, Net Motion \$3,500, Hydro testing SCBA Bottles \$3,300    |
| 42,924.00    | Property Ins, includes critical illness                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 31,600.00    | Repair front and rear of station 1 where the wood is rotting away. Use metal \$7,500. Replace HVAC at station 2 \$14,500, Repair parking lot and seal station 1 \$3,600.                                                                                                                                                                                                                                                                                                                                         |
| \$29,500.00  | New tires \$3,600 x 4, Repair Scene lights on Rescue 4 \$1,000, Annual service on all equipment, Annual service on small engines and saws, Delete kit E-6 \$7,500 New K-12 blades \$600                                                                                                                                                                                                                                                                                                                          |
| 2,850.00     | Membership to Ozark Gateway Chiefs. FDIC 2500, MoChiefs 300,                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4,000.00     | Class A uniforms x 5 Chief Officers Jackets, ,Hats, Shoes                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 15,750.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1,130.00     | Test gas for meters \$500 130 for CO gas 500 for chemicals                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9,460.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 15,225.00    | Firewall \$210, Office 365 \$6,413.20, Cyber Software \$3,599.86, Adobe \$204, Wifi Booster \$810, server license upgrade \$4,191.10                                                                                                                                                                                                                                                                                                                                                                             |
| 15,430.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8,400.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8,692.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 51,658.00    | New Thermal Camera for Engine 6 \$6,400 , SCBA Mask 2516, SCBA Mask Bags 200, Hose Roller \$7500, 2 new battery operated K-12 saws 1850, 8 Motorola Portable batteries 1200, corded mics for portables 1779, 2 tac med back pack med bags 600, Portable scene lighting 600, Milwaukee battery powered sawzalls 850, Strap for Irons 650, 4 Hotel packs 1,260, Fuel tank 2,000, Swift water gear 3 full sets 5,000. 4" Supply hose for Engine 8 \$7,453, Station 2 binker gear extractor washing machine \$12,000 |
| 2,400.00     | 3 trainees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2,250,537.00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Fire Sales Tax Other Sources

130-000-3305-000 Transfer fm Public Safety Fund

130-000-3330-000 Transfer fm General

| Amount     | Justification & Supporting Information                                                                                             |
|------------|------------------------------------------------------------------------------------------------------------------------------------|
| 866,763.00 | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000 |
| 654,927.00 | Additional 100,000 included to keep Fire at 90 days                                                                                |

Fire Sales Tax Other Uses

130-000-3285-000 Trns to Capital Improvement

| Amount     | Justification & Supporting Information                                                                                             |
|------------|------------------------------------------------------------------------------------------------------------------------------------|
| 484,985.00 | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000 |

## Drainage Department

Nate Siler  
Public Works Director  
[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

Storm water Management – The Department maintains the storm sewer system and storm water detention and retention basins and ensures the city complies with the increasingly stringent water quality standards of the EPA, the DNR.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 501,620.77        | 407,468.00            | 366,228.98                 | 407,468.00             |
| Intergovernmental    | 154,261.10        | 300,000.00            | 247,625.63                 | 7,200,936.00           |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | 7,583.59          | 2,500.00              | 13,454.71                  | 18,500.00              |
| Other Sources        | -                 | 1,129,114.00          | -                          | -                      |
| <b>Total</b>         | <b>663,465.46</b> | <b>1,839,082.00</b>   | <b>627,309.32</b>          | <b>7,626,904.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 99,689.55         | 86,738.00             | 55,110.76                  | 89,300.00              |
| Supplies & Materials          | -                 | -                     | -                          | -                      |
| Maintenance & Repair          | 24,528.14         | 36,750.00             | 7,974.70                   | 36,750.00              |
| Contractual Services          | 9,607.35          | 10,650.00             | 1,783.62                   | 10,650.00              |
| Utilities                     | -                 | -                     | 226.43                     | 3,198.00               |
| Other Expenses                | 5,250.22          | 8,000.00              | 3,027.57                   | 8,099.00               |
| Capital                       | 284,955.57        | 2,084,114.00          | 1,414,047.84               | 7,703,160.00           |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>424,030.83</b> | <b>2,226,252.00</b>   | <b>1,482,170.92</b>        | <b>7,851,157.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

**Capital - Partial Completion** DED project on Stratford and Freeman \$2,652,000, ARPA Grant with cost share \$6,329,114

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Drainage Foreman        |               | 1                     | 1                     | 1                      |
| Drainage Maintenance    |               | 1                     |                       |                        |
| <b>DEPARTMENT TOTAL</b> |               | <b>2</b>              | <b>1</b>              | <b>1</b>               |

|                     |
|---------------------|
| Drainage Department |
|---------------------|

| Account                                                         | Account Name                   | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------------|--------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Drainage Department Revenues                                    |                                |                        |                        |                              |                               |                              |
| 170-990-4030-990                                                | Sales Tax Drainage             | 501,620.77             | 407,468.00             | 366,228.98                   | 488,305.31                    | 407,468.00                   |
| 170-990-4200-990                                                | Grant Revenue                  | 154,261.10             | 300,000.00             | 247,625.63                   | 330,167.51                    | 7,200,936.00                 |
| 170-990-4700-990                                                | Interest Earned-Drainage Fund  | 3,917.39               | 2,500.00               | 13,454.71                    | 17,939.61                     | 18,500.00                    |
| 170-990-4820-990                                                | Sale of Drainage Property      | -                      | -                      | -                            | -                             | -                            |
| <b>Total Drainage Department Revenues</b>                       |                                | <b>\$ 663,465.46</b>   | <b>\$ 709,968.00</b>   | <b>\$ 627,309.32</b>         | <b>\$ 836,412.43</b>          | <b>\$ 7,626,904.00</b>       |
| Drainage Department Expenditures                                |                                |                        |                        |                              |                               |                              |
| 170-990-5010-990                                                | Drainage Salaries              | 65,079.59              | 50,079.00              | 38,025.52                    | 50,079.00                     | 51,582.00                    |
| 170-990-5020-990                                                | Drainage Overtime              | 5,213.15               | 4,667.00               | 1,943.66                     | 2,591.55                      | 4,667.00                     |
| 170-990-5030-990                                                | Drainage Part Time             | 4,759.64               | 12,000.00              | -                            | -                             | 12,000.00                    |
| 170-990-5070-990                                                | Availability Allowance         | 345.00                 | 360.00                 | 270.00                       | 360.00                        | 360.00                       |
| 170-990-5170-990                                                | Drainage Social Security       | 5,731.47               | 5,107.00               | 3,051.03                     | 4,068.04                      | 5,221.00                     |
| 170-990-5180-990                                                | Drainage Retirement            | 2,658.99               | 2,738.00               | 2,012.03                     | 2,682.71                      | 3,375.00                     |
| 170-990-5190-990                                                | Drainage Health Insurance      | 12,298.69              | 7,553.00               | 5,361.48                     | 7,148.64                      | 7,795.00                     |
| 170-990-5210-990                                                | Drainage Workers Compensation  | 2,502.60               | 2,924.00               | 3,960.85                     | 5,281.13                      | 2,990.00                     |
| 170-990-5260-990                                                | Drainage Professional Services | 8,777.15               | 10,250.00              | 1,783.62                     | 2,378.16                      | 10,250.00                    |
| 170-990-5300-990                                                | Drainage Insurance & Bonds     | 830.20                 | 400.00                 | -                            | 400.00                        | 400.00                       |
| 170-990-5330-990                                                | Drainage Equipment Maintenance | 18,191.43              | 15,750.00              | 4,452.38                     | 5,936.51                      | 15,750.00                    |
| 170-990-5380-990                                                | Drainage Uniforms              | 1,100.42               | 1,310.00               | 486.19                       | 648.25                        | 1,310.00                     |
| 170-990-5530-990                                                | Drainage Fuels/Lubricants      | 5,250.22               | 8,000.00               | 3,027.57                     | 4,036.76                      | 8,000.00                     |
| 170-990-5590-990                                                | Drainage General Supplies      | -                      | -                      | -                            | -                             | -                            |
| 170-990-5640-990                                                | Drainage Maintenance           | 6,336.71               | 21,000.00              | 3,522.32                     | 4,696.43                      | 21,000.00                    |
| 170-990-5700-990                                                | Drainage Computer/Software     | -                      | -                      | -                            | -                             | 99.00                        |
| 170-990-6350-990                                                | Drainage Phones                | -                      | -                      | 226.43                       | 301.91                        | 3,198.00                     |
| 170-990-6380-990                                                | Lease Purchase Payments        | -                      | -                      | -                            | -                             | -                            |
| <b>Total Drainage Department Expenditures</b>                   |                                | <b>\$ 139,075.26</b>   | <b>\$ 142,138.00</b>   | <b>\$ 68,123.08</b>          | <b>\$ 90,609.08</b>           | <b>\$ 147,997.00</b>         |
| Drainage Department Other Sources                               |                                |                        |                        |                              |                               |                              |
| 170-000-3306-000                                                | Transfer fm ARPA               | -                      | 1,129,114.00           | -                            | 1,129,114.00                  | -                            |
| <b>Total Drainage Department Other Sources</b>                  |                                | <b>\$ -</b>            | <b>\$ 1,129,114.00</b> | <b>\$ -</b>                  | <b>\$ 1,129,114.00</b>        | <b>\$ -</b>                  |
| Drainage Department Other Uses                                  |                                |                        |                        |                              |                               |                              |
| 170-000-3285-000                                                | Trns to Capital Improvement    | 284,955.57             | 2,084,114.00           | 1,414,047.84                 | 1,885,397.12                  | 7,703,160.00                 |
| 170-000-3243-000                                                | Transfer to Parks Capital Imp  | -                      | -                      | -                            | -                             | -                            |
| <b>Total Drainage Department Other Uses</b>                     |                                | <b>\$ 284,955.57</b>   | <b>\$ 2,084,114.00</b> | <b>\$ 1,414,047.84</b>       | <b>\$ 1,885,397.12</b>        | <b>\$ 7,703,160.00</b>       |
| Change in Fund Balance                                          |                                | 239,434.63             | (387,170.00)           | (854,861.60)                 | (10,479.77)                   | (224,253.00)                 |
| <b>Drainage Department Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 1,162,813.00</b> | <b>\$ 1,402,247.63</b> | <b>\$ 1,402,247.63</b>       | <b>\$ 1,402,247.63</b>        | <b>\$ 1,391,767.86</b>       |
| <b>Total Drainage Department Funding Sources</b>                |                                | <b>\$ 1,826,278.46</b> | <b>\$ 3,241,329.63</b> | <b>\$ 2,029,556.95</b>       | <b>\$ 3,367,774.06</b>        | <b>\$ 9,018,671.86</b>       |
| <b>Total Drainage Department Funding Uses</b>                   |                                | <b>\$ 424,030.83</b>   | <b>\$ 2,226,252.00</b> | <b>\$ 1,482,170.92</b>       | <b>\$ 1,976,006.20</b>        | <b>\$ 7,851,157.00</b>       |
| <b>Drainage Department Beginning Fund Balance"September 30"</b> |                                | <b>\$ 1,402,247.63</b> | <b>\$ 1,015,077.63</b> | <b>\$ 547,386.03</b>         | <b>\$ 1,391,767.86</b>        | <b>\$ 1,167,514.86</b>       |

90-Day Reserve

|              |
|--------------|
| \$ 36,492.41 |
|--------------|

Days reserve

2,879.40

| Drainage Sales Tax    |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Noah, Ethan          | 1    | 50,078.86 | \$ 51,581.23       |                       | 360                       | 3,946.00           | 3,095.00   | 7,795.00  | 2,260.00     | \$ 69,037.23               |
|                      |      |           |                    |                       |                           |                    |            |           |              | \$ -                       |
|                      | 1.00 | 50,078.86 | 51,581.23          | -                     | 360.00                    | 3,946.00           | 3,095.00   | 7,795.00  | 2,260.00     | \$ 69,037.23               |
| Overtime             |      | 2,591.55  | 4,667.00           |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      | 10,000.00 | 12,000.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 62,670.41 | 68,248.22          |                       |                           |                    |            |           |              |                            |

|                             |                               | Department Request |                                                    |
|-----------------------------|-------------------------------|--------------------|----------------------------------------------------|
|                             |                               | Amount             | Justification & Supporting Information             |
| Drainage Sales Tax Revenues |                               |                    |                                                    |
| 170-990-4030-990            | Sales Tax Drainage            | 407,468.00         |                                                    |
| 170-990-4200-990            | Grant Revenue                 |                    | DED Stormwater \$2,390,497, DNR ARPA Grant Revenue |
|                             |                               | 7,200,936.00       | \$4,952,664                                        |
| 170-990-4700-990            | Interest Earned-Drainage Fund | 18,500.00          |                                                    |
|                             |                               |                    |                                                    |
|                             |                               | 7,626,904.00       |                                                    |

|                                 |                                | Amount     | Justification & Supporting Information                         |
|---------------------------------|--------------------------------|------------|----------------------------------------------------------------|
| Drainage Sales Tax Expenditures |                                |            |                                                                |
| 170-990-5010-990                | Drainage Salaries              | 51,582.00  |                                                                |
| 170-990-5020-990                | Drainage Overtime              | 4,667.00   |                                                                |
| 170-990-5030-990                | Drainage Part Time             | 12,000.00  | Seasonal employees during leaf pickup and mowing               |
| 170-990-5070-990                | Availability Allowance         | 360.00     |                                                                |
| 170-990-5170-990                | Drainage Social Security       | 5,221.00   |                                                                |
| 170-990-5180-990                | Drainage Retirement            | 3,375.00   |                                                                |
| 170-990-5190-990                | Drainage Health Insurance      | 7,795.00   |                                                                |
| 170-990-5210-990                | Drainage Workers Compensation  | 2,990.00   |                                                                |
| 170-990-5260-990                | Drainage Professional Services |            | As needed engineering for various on call flooding issues      |
|                                 |                                | 10,250.00  | \$10,000, Stronghold 250                                       |
| 170-990-5300-990                | Drainage Insurance & Bonds     | 400.00     | bonds only                                                     |
| 170-990-5330-990                | Drainage Equipment Maintenance | 15,750.00  | Used for heavy equipment and service truck maintenance and rep |
| 170-990-5380-990                | Drainage Uniforms              | 1,310.00   | \$1,310 for jeans, boots, coat, vest and hat allowance         |
| 170-990-5530-990                | Drainage Fuels/Lubricants      | 8,000.00   | increase for fuel cost                                         |
| 170-990-5590-990                | Drainage General Supplies      |            |                                                                |
| 170-990-5640-990                | Drainage Maintenance           | 21,000.00  |                                                                |
| 170-990-5700-990                | Drainage Computer/Software     | 99.00      | Server license upgrade \$98.45                                 |
| 170-990-6350-990                | Drainage Phones                | 3,198.00   | tablet phone line, fiber                                       |
| 170-990-6380-990                | Lease Purchase Payments        |            |                                                                |
|                                 |                                |            |                                                                |
|                                 |                                | 147,997.00 |                                                                |

|                                  |                  | Amount | Justification & Supporting Information |
|----------------------------------|------------------|--------|----------------------------------------|
| Drainage Sales Tax Other Sources |                  |        |                                        |
| 170-000-3306-000                 | Transfer fm ARPA |        |                                        |
|                                  |                  |        |                                        |

|                               |                             | Amount       | Justification & Supporting Information                                   |
|-------------------------------|-----------------------------|--------------|--------------------------------------------------------------------------|
| Drainage Sales Tax Other Uses |                             |              |                                                                          |
| 170-000-3285-000              | Trns to Capital Improvement |              | ARPA Cost Share \$4,952,664, Land Purchase retention                     |
|                               |                             | 7,703,160.00 | \$300,000, Mower replacement \$20,000, 20% match retention pond \$40,000 |

## Senior Center

David Kennedy

City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

The Neosho Senior Center is available for the senior citizens to come for fellowship and have a nutritious lunch, play pool, dominos, bridge, exercise and enjoy other activities.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 209,004.11        | 169,780.00            | 152,595.33                 | 169,780.00             |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | 719.14            | 400.00                | 5,389.26                   | 6,970.00               |
| Other Sources        | 34,899.00         | -                     | -                          | -                      |
| <b>Total</b>         | <b>244,622.25</b> | <b>170,180.00</b>     | <b>157,984.59</b>          | <b>176,750.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 9,177.12          | 8,817.00              | 6,372.15                   | 9,120.00               |
| Supplies & Materials          | 659.23            | 1,050.00              | 210.41                     | 1,000.00               |
| Maintenance & Repair          | 9,475.50          | 12,848.00             | 1,919.85                   | 12,500.00              |
| Contractual Services          | 11,320.81         | 13,011.00             | 12,113.74                  | 13,331.00              |
| Utilities                     | 32,586.69         | 31,473.00             | 20,687.32                  | 30,248.00              |
| Other Expenses                | 1,961.65          | 3,675.00              | 1,136.92                   | 3,525.00               |
| Capital                       | 160,489.43        | 43,000.00             | 24,345.00                  | 25,000.00              |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | 52,196.06         | 53,680.00             | 48,695.00                  | 53,680.00              |
| <b>Total</b>                  | <b>277,866.49</b> | <b>167,554.00</b>     | <b>115,480.39</b>          | <b>148,404.00</b>      |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

**Phones** - Decrease current rates

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| No FTE                  | 0.16          | 0.16                  | 0.16                  | 0.16                   |
| <b>DEPARTMENT TOTAL</b> | <b>0.16</b>   | <b>0.16</b>           | <b>0.16</b>           | <b>0.16</b>            |



|               |
|---------------|
| Senior Center |
|---------------|

| Account                                                   | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Senior Center Revenues                                    |                                |                      |                      |                              |                               |                              |
| 175-175-4030-175                                          | Sales Tax - 1/16-Cent          | 209,004.11           | 169,780.00           | 152,595.33                   | 203,460.44                    | 169,780.00                   |
| 175-175-4700-175                                          | Interest Earned-Senior Center  | 541.78               | 400.00               | 5,389.26                     | 7,185.68                      | 6,970.00                     |
| 175-175-4820-175                                          | Sale of Property               | 177.36               | -                    | -                            | -                             | -                            |
| <b>Total Senior Center Revenues</b>                       |                                | <b>\$ 209,723.25</b> | <b>\$ 170,180.00</b> | <b>\$ 157,984.59</b>         | <b>\$ 210,646.12</b>          | <b>\$ 176,750.00</b>         |
| Senior Center Expenditures                                |                                |                      |                      |                              |                               |                              |
| 175-175-5010-175                                          | Senior Center Salaries         | 5,131.59             | 5,743.00             | 4,383.64                     | 5,844.85                      | 5,915.00                     |
| 175-175-5020-175                                          | Senior Center Overtime         | 50.74                | 500.00               | 27.60                        | 36.80                         | 500.00                       |
| 175-175-5170-175                                          | Senior Center Social Security  | 393.30               | 478.00               | 333.11                       | 444.15                        | 491.00                       |
| 175-175-5180-175                                          | Senior Center Retirement       | 158.09               | 313.00               | 220.54                       | 294.05                        | 385.00                       |
| 175-175-5190-175                                          | Senior Center Health Insurance | 1,055.93             | 1,209.00             | 857.89                       | 1,143.85                      | 1,248.00                     |
| 175-175-5210-175                                          | Senior Center Workers Comp.    | 2,387.47             | 274.00               | 249.37                       | 332.49                        | 281.00                       |
| 175-175-5260-175                                          | Senior Center Prof. Services   | 7,594.39             | 7,430.00             | 6,822.99                     | 9,097.32                      | 7,430.00                     |
| 175-175-5300-175                                          | Senior Center Ins. & Bonds     | 3,726.42             | 5,581.00             | 5,290.75                     | 7,054.33                      | 5,901.00                     |
| 175-175-5320-175                                          | Senior Center Facility Maint.  | 9,368.52             | 12,348.00            | 1,912.87                     | 2,550.49                      | 12,000.00                    |
| 175-175-5330-175                                          | Senior Center Equipment Maint. | 106.98               | 500.00               | 6.98                         | 9.31                          | 500.00                       |
| 175-175-5360-175                                          | Senior Center Memb/Train/Trvl  | -                    | 300.00               | 300.00                       | 400.00                        | 300.00                       |
| 175-175-5590-175                                          | Senior Center General Supplies | 659.23               | 1,050.00             | 210.41                       | 280.55                        | 1,000.00                     |
| 175-175-5610-175                                          | Senior Center Activity/Event   | 1,961.65             | 3,150.00             | 1,136.92                     | 1,515.89                      | 3,000.00                     |
| 175-175-5700-175                                          | Senior Center Comp., Software  | -                    | 525.00               | -                            | -                             | 525.00                       |
| 175-175-6300-175                                          | Senior Center Electricity      | 28,357.05            | 27,000.00            | 17,949.39                    | 23,932.52                     | 27,000.00                    |
| 175-175-6350-175                                          | Senior Center Phones           | 4,229.64             | 4,473.00             | 2,737.93                     | 3,650.57                      | 3,248.00                     |
| <b>Total Senior Center Expenditures</b>                   |                                | <b>\$ 65,181.00</b>  | <b>\$ 70,874.00</b>  | <b>\$ 42,440.39</b>          | <b>\$ 56,587.19</b>           | <b>\$ 69,724.00</b>          |
| Senior Center Other Sources                               |                                |                      |                      |                              |                               |                              |
| 175-000-3303-000                                          | Transfer from General          | -                    | -                    | -                            | -                             | -                            |
| 175-000-3364-000                                          | Transfer to Capital Reserve    | 34,899.00            | -                    | -                            | -                             | -                            |
| <b>Total Senior Center Other Sources</b>                  |                                | <b>\$ 34,899.00</b>  | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Senior Center Other Uses                                  |                                |                      |                      |                              |                               |                              |
| 175-000-3285-000                                          | Trns to Capital Improvement    | 125,590.43           | 43,000.00            | 24,345.00                    | 43,000.00                     | 25,000.00                    |
| 175-000-3221-000                                          | Transfer to 2021 Series DS     | 52,196.06            | 53,680.00            | 48,695.00                    | 48,695.00                     | 53,680.00                    |
| 175-000-3264-000                                          | Transfer to Capital Reserve    | 34,899.00            | -                    | -                            | -                             | -                            |
| <b>Total Senior Center Other Uses</b>                     |                                | <b>\$ 212,685.49</b> | <b>\$ 96,680.00</b>  | <b>\$ 73,040.00</b>          | <b>\$ 91,695.00</b>           | <b>\$ 78,680.00</b>          |
| Change in Fund Balance                                    |                                | (33,244.24)          | 2,626.00             | 42,504.20                    | 62,363.93                     | 28,346.00                    |
| <b>Senior Center Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 267,483.00</b> | <b>\$ 234,238.76</b> | <b>\$ 234,238.76</b>         | <b>\$ 234,238.76</b>          | <b>\$ 296,602.69</b>         |
| <b>Total Senior Center Funding Sources</b>                |                                | <b>\$ 512,105.25</b> | <b>\$ 404,418.76</b> | <b>\$ 392,223.35</b>         | <b>\$ 444,884.88</b>          | <b>\$ 473,352.69</b>         |
| <b>Total Senior Center Funding Uses</b>                   |                                | <b>\$ 277,866.49</b> | <b>\$ 167,554.00</b> | <b>\$ 115,480.39</b>         | <b>\$ 148,282.19</b>          | <b>\$ 148,404.00</b>         |
| <b>Senior Center Beginning Fund Balance"September 30"</b> |                                | <b>\$ 234,238.76</b> | <b>\$ 236,864.76</b> | <b>\$ 276,742.96</b>         | <b>\$ 296,602.69</b>          | <b>\$ 324,948.69</b>         |
| Assigned Fund Balance - HVAC                              |                                | 34,899.00            | \$ 40,000.00         | \$ -                         | \$ -                          | \$ -                         |

| Account                       | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|-------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Total Committed Fund Balance  |              | \$ 34,899.00     | \$ 40,000.00     | \$ -                | \$ -             | \$ -             |
| Total Unassigned Fund Balance |              | 199,339.76       | 196,864.76       | 276,742.96          | 296,602.69       | 324,948.69       |

|                |  |  |  |              |  |              |
|----------------|--|--|--|--------------|--|--------------|
| 90-Day Reserve |  |  |  |              |  | \$ 17,192.22 |
|                |  |  |  | Days reserve |  | 1,701.08     |

| Senior Ctr Sales Tax  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE            | #    | FY2024   | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------|------|----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Weston, Deanna | 0.16 | 5,742.00 | \$ 5,914.26        |                       |                           | 453.00             | 355.00     | 1,248.00  | 260.00       | \$ 8,230.26                |
|                | 0.16 | 5,742.00 | 5,914.26           | -                     | -                         | 453.00             | 355.00     | 1,248.00  | 260.00       | \$ 8,230.26                |
| Overtime       |      | 36.80    | 500.00             |                       |                           |                    |            |           |              |                            |
| Total Salaries |      | 5,778.80 | 6,414.26           |                       |                           |                    |            |           |              |                            |

| Senior Ctr Sales Tax Revenues |                               | Department Request |                                        |
|-------------------------------|-------------------------------|--------------------|----------------------------------------|
|                               |                               | Amount             | Justification & Supporting Information |
| 175-175-4030-175              | Sales Tax - 1/16-Cent         | 169,780.00         |                                        |
| 175-175-4700-175              | Interest Earned-Senior Center | 6,970.00           |                                        |
|                               |                               | 176,750.00         |                                        |

| Senior Ctr Sales Tax Expenditures |                                | Amount    | Justification & Supporting Information                                                                                                                                                                                   |
|-----------------------------------|--------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 175-175-5010-175                  | Senior Center Salaries         | 5,915.00  |                                                                                                                                                                                                                          |
| 175-175-5020-175                  | Senior Center Overtime         | 500.00    |                                                                                                                                                                                                                          |
| 175-175-5170-175                  | Senior Center Social Security  | 491.00    |                                                                                                                                                                                                                          |
| 175-175-5180-175                  | Senior Center Retirement       | 385.00    |                                                                                                                                                                                                                          |
| 175-175-5190-175                  | Senior Center Health Insurance | 1,248.00  |                                                                                                                                                                                                                          |
| 175-175-5210-175                  | Senior Center Workers Comp.    | 281.00    |                                                                                                                                                                                                                          |
| 175-175-5260-175                  | Senior Center Prof. Services   | 7,430.00  | Pest Control \$1020, Fire Inspection \$500, Kitchen Inspection \$150, Hood Inspection \$400, Trap Cleaning \$1000, Floor cleaning \$2700, Security monitoring \$500, Hood cleaning \$1,060, AED annual inspections \$200 |
| 175-175-5300-175                  | Senior Center Ins. & Bonds     | 5,901.00  | Property Ins                                                                                                                                                                                                             |
| 175-175-5320-175                  | Senior Center Facility Maint.  | 12,000.00 |                                                                                                                                                                                                                          |
| 175-175-5330-175                  | Senior Center Equipment Maint. | 500.00    |                                                                                                                                                                                                                          |
| 175-175-5360-175                  | Senior Center Memb/Train/Trvl  | 300.00    | AED/CPR Certifications                                                                                                                                                                                                   |
| 175-175-5590-175                  | Senior Center General Supplies | 1,000.00  |                                                                                                                                                                                                                          |
| 175-175-5610-175                  | Senior Center Activity/Event   | 3,000.00  |                                                                                                                                                                                                                          |
| 175-175-5700-175                  | Senior Center Comp., Software  | 525.00    |                                                                                                                                                                                                                          |
| 175-175-6300-175                  | Senior Center Electricity      | 27,000.00 |                                                                                                                                                                                                                          |
| 175-175-6350-175                  | Senior Center Phones           | 3,248.00  | add 3 phones                                                                                                                                                                                                             |
|                                   |                                | 69,724.00 |                                                                                                                                                                                                                          |

| Senior Ctr Sales Tax Other Sources |                             | Amount | Justification & Supporting Information |
|------------------------------------|-----------------------------|--------|----------------------------------------|
| 175-000-3303-000                   | Transfer from General       |        |                                        |
| 175-000-3364-000                   | Transfer to Capital Reserve |        |                                        |

| Senior Ctr Sales Tax Other Uses |                             | Amount    | Justification & Supporting Information              |
|---------------------------------|-----------------------------|-----------|-----------------------------------------------------|
| 175-000-3285-000                | Trns to Capital Improvement | 25,000.00 | Kitchen cabinets and stove replacement \$25,000     |
| 175-000-3221-000                | Transfer to 2021 Series DS  | 53,680.00 | 2021 Debt Principal & Interest Payment & Admin Fees |
| 175-000-3264-000                | Transfer to Capital Reserve |           |                                                     |

## Parks & Recreation

Kenny Balls

Parks & Recreation Manager

[Kballs@neoshomo.org](mailto:Kballs@neoshomo.org)

The Parks Department administers and maintains Neosho Parks and other properties assigned to Parks Department under the direction of the City Manager. This includes annual budgeting, bidding projects, land management, and maintaining and training the work force. The Parks Department is funded by a 3/8 of 1% sales tax shared with the Drainage Department. This tax was approved by the Neosho voters August of 1997.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 752,431.09          | 616,102.00            | 553,639.73                 | 811,454.00             |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 8,316.00            | 5,000.00              | 6,143.00                   | 5,800.00               |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 45,424.59           | 4,900.00              | 22,417.05                  | 23,214.00              |
| Other Sources        | 508,610.26          | 115,180.00            | 86,391.00                  | 743,380.00             |
| <b>Total</b>         | <b>1,314,781.94</b> | <b>741,182.00</b>     | <b>668,590.78</b>          | <b>1,583,848.00</b>    |
|                      | \$ (0.00)           | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 294,713.18          | 331,510.00            | 236,598.96                 | 350,211.00             |
| Supplies & Materials          | 19,409.55           | 20,200.00             | 15,359.40                  | 19,000.00              |
| Maintenance & Repair          | 73,205.02           | 63,775.00             | 52,006.37                  | 69,000.00              |
| Contractual Services          | 59,110.92           | 74,593.00             | 52,543.76                  | 78,563.00              |
| Utilities                     | 28,061.96           | 28,714.00             | 19,028.65                  | 26,794.00              |
| Other Expenses                | 33,112.22           | 39,928.00             | 29,608.02                  | 36,669.00              |
| Capital                       | 401,462.20          | 276,376.00            | 277,055.10                 | 987,652.00             |
| Other Uses                    | 101,992.00          | 65,180.00             | 48,888.00                  | 66,530.00              |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,011,067.05</b> | <b>900,276.00</b>     | <b>731,088.26</b>          | <b>1,634,419.00</b>    |
|                               | \$ 0.00             | \$ -                  | \$ 0.00                    | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Professional Services** - Increase for need

**Equipment Maintenance**- Increase due to need

**Fuels and Lubricants**- Increase in fuel use \$1,500

**Wading Pool**- Increase for current need

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

#### Decreases:

**Minor Equipment**- Decrease due to current needs

|                             | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-----------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels             |               |                       |                       |                        |
| Parks & Recreation Director | 1             | 1                     | 1                     | 1                      |
| Crew Leader                 | 1             | 1                     | 1                     | 1                      |
| Parks Maintenance           | 5             | 5                     | 4                     | 4                      |
| <b>DEPARTMENT TOTAL</b>     | <b>7</b>      | <b>7</b>              | <b>6</b>              | <b>6</b>               |

|                  |
|------------------|
| Parks Department |
|------------------|

| Account                                     | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Parks Department Revenues                   |                                |                      |                      |                              |                               |                              |
| 180-750-4030-750                            | Sales Tax Parks                | 752,431.09           | 611,202.00           | 549,343.49                   | 532,457.99                    | 611,202.00                   |
| 180-750-4200-750                            | Grant Revenue                  | -                    | 4,900.00             | 4,296.24                     | 5,728.32                      | 200,252.00                   |
| 180-750-4500-750                            | Park Fees                      | 2,830.00             | 2,000.00             | 2,961.00                     | 3,948.00                      | 2,800.00                     |
| 180-750-4500-752                            | RV Pad Rental                  | 5,486.00             | 3,000.00             | 3,182.00                     | 4,242.67                      | 3,000.00                     |
| 180-750-4530-750                            | Fish Food Monies               | 5,291.78             | 3,500.00             | 5,473.40                     | 7,297.87                      | 4,000.00                     |
| 180-750-4700-750                            | Interest Earned-Parks Fund     | 786.55               | 1,400.00             | 14,408.15                    | 19,210.87                     | 19,214.00                    |
| 180-750-4760-750                            | Insurance Proceeds             | 20,000.00            | -                    | -                            | -                             | -                            |
| 180-750-4800-750                            | Parks Miscellaneous            | 206.35               | -                    | 381.50                       | 381.50                        | -                            |
| 180-750-4820-750                            | Sale and Use of Property       | 2,650.52             | -                    | 2,154.00                     | 2,154.00                      | -                            |
| 180-750-4990-750                            | Donations Parks                | 16,489.39            | -                    | -                            | -                             | -                            |
| 180-750-4990-753                            | Skate Park Donations           | -                    | -                    | -                            | -                             | -                            |
| <b>Total Parks Department Revenues</b>      |                                | <b>\$ 806,171.68</b> | <b>\$ 626,002.00</b> | <b>\$ 582,199.78</b>         | <b>\$ 575,421.21</b>          | <b>\$ 840,468.00</b>         |
| Parks Department Expenditures               |                                |                      |                      |                              |                               |                              |
| 180-750-5010-750                            | Parks Salaries                 | 193,030.97           | 232,051.00           | 168,535.85                   | 224,714.47                    | 246,631.00                   |
| 180-750-5020-750                            | Parks Overtime                 | 5,758.83             | 8,000.00             | 2,844.55                     | 3,792.73                      | 6,000.00                     |
| 180-750-5030-750                            | Parks Part Time                | -                    | -                    | -                            | -                             | -                            |
| 180-750-5070-750                            | Availability Allowance         | 720.00               | 720.00               | 540.00                       | 720.00                        | 720.00                       |
| 180-750-5170-750                            | Parks Social Security          | 15,026.05            | 18,364.00            | 12,980.57                    | 17,307.43                     | 19,327.00                    |
| 180-750-5180-750                            | Parks Retirement               | 7,957.11             | 12,003.00            | 6,760.12                     | 9,013.49                      | 15,158.00                    |
| 180-750-5190-750                            | Parks Health Insurance         | 42,114.23            | 45,317.00            | 31,765.08                    | 42,353.44                     | 46,769.00                    |
| 180-750-5210-750                            | Parks Workers Compensation     | 26,830.74            | 10,515.00            | 10,316.29                    | 13,755.05                     | 11,066.00                    |
| 180-750-5260-750                            | Parks Professional Services    | 2,808.91             | 2,395.00             | 3,974.37                     | 5,299.16                      | 2,780.00                     |
| 180-750-5300-750                            | Parks Insurance and Bonds      | 15,897.01            | 27,198.00            | 25,859.39                    | 34,479.19                     | 29,073.00                    |
| 180-750-5320-750                            | Parks Facility Maintenance     | 25,550.02            | 28,000.00            | 24,051.42                    | 32,068.56                     | 30,000.00                    |
| 180-750-5320-753                            | Skatepark Facility Maintenance | -                    | 1,000.00             | 22.92                        | 30.56                         | 1,000.00                     |
| 180-750-5330-750                            | Parks Equipment Maintenance    | 17,066.21            | 18,000.00            | 15,239.22                    | 20,318.96                     | 20,000.00                    |
| 180-750-5360-750                            | Parks Member/Training/Travel   | 54.00                | 1,040.00             | 110.00                       | 146.67                        | 1,040.00                     |
| 180-750-5380-750                            | Parks Uniforms                 | 3,221.25             | 3,500.00             | 2,746.50                     | 3,662.00                      | 3,500.00                     |
| 180-750-5530-750                            | Parks Fuels/Lubricants         | 15,589.56            | 13,500.00            | 11,123.68                    | 14,831.57                     | 15,000.00                    |
| 180-750-5590-750                            | Parks General Supplies         | 9,824.05             | 10,000.00            | 7,656.45                     | 10,208.60                     | 10,000.00                    |
| 180-750-5590-752                            | RV Park Expenses               | 29.85                | 1,000.00             | 119.99                       | 159.99                        | 1,000.00                     |
| 180-750-5610-750                            | Christmas Lighting             | 3,805.85             | 4,200.00             | 3,978.79                     | 5,305.05                      | 5,000.00                     |
| 180-750-5630-750                            | Wading Pool Expenses           | 1,148.40             | 1,050.00             | 1,601.52                     | 2,135.36                      | 2,000.00                     |
| 180-750-5700-750                            | Parks Computer/Software        | 2,408.57             | 3,132.00             | 1,436.92                     | 1,915.89                      | 3,140.00                     |
| 180-750-6300-750                            | Parks Electricity              | 19,725.29            | 17,000.00            | 14,465.88                    | 19,287.84                     | 17,000.00                    |
| 180-750-6310-750                            | Parks Heating Fuels            | 2,129.21             | 2,900.00             | 1,645.05                     | 2,193.40                      | 2,900.00                     |
| 180-750-6350-750                            | Parks Phones                   | 4,574.94             | 4,814.00             | 2,955.81                     | 3,941.08                      | 2,894.00                     |
| 180-750-6390-750                            | Parks Minor Equipment          | 6,628.09             | 10,500.00            | 4,917.16                     | 6,556.21                      | 5,000.00                     |
| 180-750-6410-750                            | Flowers & Plants               | 3,485.08             | 4,725.00             | 4,231.81                     | 5,642.41                      | 5,000.00                     |
| 180-750-5331-750                            | Helicopter Maintenance         | 4,565.96             | 5,000.00             | 284.57                       | 379.43                        | 5,000.00                     |
| <b>Total Parks Department Expenditures</b>  |                                | <b>\$ 429,950.18</b> | <b>\$ 485,924.00</b> | <b>\$ 360,163.91</b>         | <b>\$ 480,218.55</b>          | <b>\$ 506,998.00</b>         |
| Parks Department Other Sources              |                                |                      |                      |                              |                               |                              |
| 180-000-3343-000                            | Transfer from Other Funds      | 468,610.26           | 50,000.00            | 37,503.00                    | 50,000.00                     | 676,850.00                   |
|                                             | Transfer from Parks Sales Tax  | -                    | -                    | -                            | -                             | -                            |
| <b>Total Parks Department Other Sources</b> |                                | <b>\$ 468,610.26</b> | <b>\$ 50,000.00</b>  | <b>\$ 37,503.00</b>          | <b>\$ 50,000.00</b>           | <b>\$ 676,850.00</b>         |
| Parks Department Other Uses                 |                                |                      |                      |                              |                               |                              |
| 180-000-3241-000                            | Transfer to GC fm Parks -Mtce  | 61,992.00            | -                    | -                            | -                             | -                            |
| 180-000-3285-000                            | Trns to Capital Improvement    | 401,462.20           | 276,376.00           | 277,055.10                   | 247,449.00                    | 987,652.00                   |
| 180-000-3290-000                            | Transfer to Parks Recreation   | 40,000.00            | 65,180.00            | 48,888.00                    | 65,180.00                     | 66,530.00                    |
| <b>Total Parks Department Other Uses</b>    |                                | <b>\$ 503,454.20</b> | <b>\$ 341,556.00</b> | <b>\$ 325,943.10</b>         | <b>\$ 312,629.00</b>          | <b>\$ 1,054,182.00</b>       |
| Change in Fund Balance                      |                                | 303,714.89           | (159,094.00)         | (62,497.48)                  | (180,988.13)                  | (50,571.00)                  |

| Account                                               | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|-------------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Parks Department Beginning Fund Balance"October 1"    |              | \$ 386,357.00    | \$ 690,071.89    | \$ 690,071.89       | \$ 690,071.89    | \$ 509,083.76    |
| Total Parks Department Funding Sources                |              | \$ 1,701,138.94  | \$ 1,431,253.89  | \$ 1,358,662.67     | \$ 1,380,677.10  | \$ 2,092,931.76  |
| Total Parks Department Funding Uses                   |              | \$ 1,011,067.05  | \$ 900,276.00    | \$ 731,088.26       | \$ 871,593.33    | \$ 1,634,419.00  |
| Parks Department Beginning Fund Balance"September 30" |              | \$ 690,071.89    | \$ 530,977.89    | \$ 627,574.41       | \$ 509,083.76    | \$ 458,512.76    |

|                |  |  |  |  |  |               |
|----------------|--|--|--|--|--|---------------|
| 90-Day Reserve |  |  |  |  |  | \$ 143,072.14 |
|----------------|--|--|--|--|--|---------------|

Days reserve 288.43

| Parks Sales Tax       |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE            | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Balls, Kenneth | 1    | 52,910.52  | \$ 58,656.00       |                       | 360                       | 4,488.00           | 3,520.00   | 7,795.00  | 2,570.00     | \$ 77,389.00               |
| Townzen, Tylar | 1    | 35,499.88  | \$ 38,110.00       |                       |                           | 2,916.00           | 2,287.00   | 7,795.00  | 1,670.00     | \$ 52,778.00               |
| Martin, Joshua | 1    | 42,640.00  | \$ 44,805.00       |                       | 360                       | 3,428.00           | 2,689.00   | 7,795.00  | 1,963.00     | \$ 61,040.00               |
| Splitt, Steven | 1    | 30,000.10  | \$ 35,020.00       |                       |                           | 2,680.00           | 2,102.00   | 7,795.00  | 1,534.00     | \$ 49,131.00               |
| Harper, Jacob  | 1    | 32,999.98  | \$ 35,020.00       |                       |                           | 2,680.00           | 2,102.00   | 7,795.00  | 1,534.00     | \$ 49,131.00               |
| Lasiter, Dusty | 1    | 32,999.98  | \$ 35,020.00       |                       |                           | 2,680.00           | 2,102.00   | 7,795.00  | 1,534.00     | \$ 49,131.00               |
|                | 6.00 | 227,050.46 | 246,631.00         | -                     | 720.00                    | 18,872.00          | 14,802.00  | 46,770.00 | 10,805.00    | \$ 338,600.00              |

|                      |          |          |
|----------------------|----------|----------|
| Overtime             | 3,792.73 | 6,000.00 |
| Part Time & Seasonal | -        | -        |

|                |            |            |
|----------------|------------|------------|
| Total Salaries | 230,843.19 | 252,631.00 |
|----------------|------------|------------|

| Department Request |                                        |                                                                  |
|--------------------|----------------------------------------|------------------------------------------------------------------|
| Amount             | Justification & Supporting Information |                                                                  |
| 180-750-4030-750   | Sales Tax Parks                        | 611,202.00                                                       |
| 180-750-4200-750   | Grant Revenue                          | 200,252.00 RTP Grant - City match is 39.31%, ADA Grant \$112,500 |
| 180-750-4500-750   | Park Fees                              | 2,800.00 5 Year Historical                                       |
| 180-750-4500-752   | RV Pad Rental                          | 3,000.00 Reduced                                                 |
| 180-750-4530-750   | Fish Food Monies                       | 4,000.00 5 Year Historical                                       |
| 180-750-4700-750   | Interest Earned-Parks Fund             | 19,214.00 5 Year Historical                                      |
|                    |                                        | 840,468.00                                                       |

| Parks Sales Tax Expenditures |                                        |                                                                                                                                                  |
|------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Amount                       | Justification & Supporting Information |                                                                                                                                                  |
| 180-750-5010-750             | Parks Salaries                         | 246,631.00                                                                                                                                       |
| 180-750-5020-750             | Parks Overtime                         | 6,000.00                                                                                                                                         |
| 180-750-5030-750             | Parks Part Time                        | -                                                                                                                                                |
| 180-750-5070-750             | Availability Allowance                 | 720.00                                                                                                                                           |
| 180-750-5170-750             | Parks Social Security                  | 19,327.00                                                                                                                                        |
| 180-750-5180-750             | Parks Retirement                       | 15,158.00                                                                                                                                        |
| 180-750-5190-750             | Parks Health Insurance                 | 46,769.00                                                                                                                                        |
| 180-750-5210-750             | Parks Workers Compensation             | 11,066.00                                                                                                                                        |
| 180-750-5260-750             | Parks Professional Services            | 2,780.00 Stronghold \$1620, Fire Inspections \$200, Alarms for concession \$360, pest \$240, Security monitoring \$360 (29.99 month- new camera) |
| 180-750-5300-750             | Parks Insurance and Bonds              | 29,073.00 Property Ins                                                                                                                           |
| 180-750-5320-750             | Parks Facility Maintenance             | 30,000.00 Skid Steer rental for clearing at creek \$1,151 weekly rate                                                                            |
| 180-750-5320-753             | Skatepark Facility Maintenance         | 1,000.00                                                                                                                                         |
| 180-750-5330-750             | Parks Equipment Maintenance            | 20,000.00                                                                                                                                        |
| 180-750-5360-750             | Parks Member/Training/Travel           | 1,040.00                                                                                                                                         |
| 180-750-5380-750             | Parks Uniforms                         | 3,500.00                                                                                                                                         |
| 180-750-5530-750             | Parks Fuels/Lubricants                 | 15,000.00                                                                                                                                        |
| 180-750-5590-750             | Parks General Supplies                 | 10,000.00                                                                                                                                        |
| 180-750-5590-752             | RV Park Expenses                       | 1,000.00                                                                                                                                         |
| 180-750-5610-750             | Christmas Lighting                     | 5,000.00                                                                                                                                         |
| 180-750-5630-750             | Wading Pool Expenses                   | 2,000.00                                                                                                                                         |
| 180-750-5700-750             | Parks Computer/Software                | 3,140.00 Firewall \$210, Office 365 \$1,662.68, Cyber Software \$799.97 wifi booster \$270, server licesne upgrade \$196.90                      |
| 180-750-6300-750             | Parks Electricity                      | 17,000.00                                                                                                                                        |
| 180-750-6310-750             | Parks Heating Fuels                    | 2,900.00                                                                                                                                         |
| 180-750-6350-750             | Parks Phones                           | 2,894.00                                                                                                                                         |
| 180-750-6390-750             | Parks Minor Equipment                  | 5,000.00 hydraulic jack                                                                                                                          |
| 180-750-6410-750             | Flowers & Plants                       | 5,000.00                                                                                                                                         |
| 180-750-5331-750             | Helicopter Maintenance                 | 5,000.00                                                                                                                                         |
|                              |                                        | 506,998.00                                                                                                                                       |

Parks Sales Tax Other Sources

180-000-3343-000 Transfer from Other Funds

| Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                           |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Recreation-Pool \$46,350, Helicopter Maintenance \$5,000, Morse Park Field Lighting \$30,000, Christmas Lighting \$10,000, Asphalt two areas \$10,000, New Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architect Design Aquatic Center \$500,000, New ADA Bathroom and pavilion Scenic Park with parking and sidewalk \$225,000 split with Parks |
| 676,850.00 |                                                                                                                                                                                                                                                                                                                                                                                  |

180-000-3390-000 Transfer from Parks Sales Tax

|  |  |
|--|--|
|  |  |
|--|--|

Parks Sales Tax Other Uses

180-000-3241-000 Transfer to GC fm Parks -Mtce

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Parks Sales Tax Other Uses

180-000-3285-000 Trns to Capital Improvement

| Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                        |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Bicycle Trails \$152,652, City share \$60,000, Morse Park Ball Field Lighting \$30,000, Christmas Lighting Displays \$10,000, Asphalt two areas \$ 10,000, New Sidewalk- ADA Restroom Scenic Park-Pavillion Scenic Park with ADA parking \$225,000, Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architectural Design Aquatic Center \$500,000 |
| 987,652.00 |                                                                                                                                                                                                                                                                                                                                                                               |

180-000-3290-000 Transfer to Parks Recreation

|           |                       |
|-----------|-----------------------|
| 66,530.00 | \$46,350 from general |
|-----------|-----------------------|



|            |
|------------|
| Recreation |
|------------|

| Account                               | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------|-------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Recreation Revenues                   |                               |                     |                     |                              |                               |                              |
| <b>Total Recreation Revenues</b>      |                               | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Recreation Expenditures               |                               |                     |                     |                              |                               |                              |
| 180-940-5260-940                      | Pool Professional Services    | 40,405.00           | 45,000.00           | 22,710.00                    | 45,000.00                     | 46,710.00                    |
| 180-940-5300-940                      | Parks Insurance and Bonds     | 8,486.00            | 12,796.00           | 12,130.26                    | 16,173.68                     | 13,529.00                    |
| 180-940-5320-940                      | Parks - Swim Facility Maint.  | 21,389.35           | 6,000.00            | 6,574.91                     | 8,766.55                      | 6,000.00                     |
| 180-940-5330-940                      | Swim Equipment Maintenance    | -                   | -                   | -                            | -                             | -                            |
| 180-940-5590-940                      | Parks - Swim General Supplies | 5,749.80            | 5,000.00            | 3,604.17                     | 4,805.56                      | 3,000.00                     |
| 180-940-6300-940                      | Parks - Pool Electricity      | 1,632.52            | 4,000.00            | (38.09)                      | 4,000.00                      | 4,000.00                     |
| <b>Total Recreation Expenditures</b>  |                               | <b>\$ 77,662.67</b> | <b>\$ 72,796.00</b> | <b>\$ 44,981.25</b>          | <b>\$ 78,745.79</b>           | <b>\$ 73,239.00</b>          |
| Recreation Other Sources              |                               |                     |                     |                              |                               |                              |
| 180-000-3390-000                      | Transfer from Parks Sales Tax | 40,000.00           | 65,180.00           | 48,888.00                    | 65,184.00                     | 20,180.00                    |
| 180-000-3390-000                      | transfer fm General           |                     |                     |                              |                               | 46,350.00                    |
| <b>Total Recreation Other Sources</b> |                               | <b>\$ 40,000.00</b> | <b>\$ 65,180.00</b> | <b>\$ 48,888.00</b>          | <b>\$ 65,184.00</b>           | <b>\$ 66,530.00</b>          |
| Recreation Other Uses                 |                               |                     |                     |                              |                               |                              |
| Transfer to General                   | Transfer to General           |                     |                     |                              |                               | -                            |
| <b>Total Recreation Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                |                               | (37,662.67)         | (7,616.00)          | 3,906.75                     | (13,561.79)                   | (6,709.00)                   |

## Parks Sales Tax

### Parks Sales Tax Revenues

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
|                    |                                        |

-

### Parks Sales Tax Expenditures

180-940-5260-940 Pool Professional Services  
 180-940-5300-940 Parks Insurance and Bonds  
 180-940-5320-940 Parks - Swim Facility Maint.  
 180-940-5330-940 Swim Equipment Maintenance  
 180-940-5590-940 Parks - Swim General Supplies  
 180-940-6300-940 Parks - Pool Electricity

| Amount    | Justification & Supporting Information                   |
|-----------|----------------------------------------------------------|
| 46,710.00 | YMCA Contract w/annual increase, Security monitoring     |
| 13,529.00 | Property Ins                                             |
| 6,000.00  |                                                          |
|           |                                                          |
| 3,000.00  | Chairs                                                   |
| 4,000.00  | invoiced to and reimbursed by the Y for 4 months of year |
|           |                                                          |

73,239.00

### Parks Sales Tax Other Sources

180-000-3390-000 Transfer from Parks Sales Tax  
 180-000-3390-000 Transfer from Parks Sales Tax

| Amount    | Justification & Supporting Information    |
|-----------|-------------------------------------------|
| 20,180.00 |                                           |
| 46,350.00 | \$46,350 from General transfered to Parks |
|           |                                           |

### Parks Sales Tax Other Uses

Transfer to General Transfer to General

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

## Auditorium & Lampo

David Kennedy

City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

The Civic is an asset to the community and serves many functions. It may be used as one large venue, or as three separate rooms. The venue is equipped with a state-of-the-art sound and theatre lighting system providing support for a wide range of presentations. With more the 650 new seats in the balcony, the venue can accommodate more than 1,000 guests. The Civic and Lampo are funded by a .125% sales tax.

| Revenue Category     | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|----------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Taxes                | 627,012.40        | 509,334.00                  | 457,785.98                       | 509,334.00                   |
| Intergovernmental    | -                 | -                           | -                                | -                            |
| Licenses & Permits   | -                 | -                           | -                                | -                            |
| Charges for Services | -                 | -                           | -                                | -                            |
| Fines & Forfeitures  | -                 | -                           | -                                | -                            |
| Miscellaneous        | 43,199.07         | 36,000.00                   | 56,364.42                        | 67,888.00                    |
| Other Sources        | -                 | -                           | -                                | -                            |
| <b>Total</b>         | <b>670,211.47</b> | <b>545,334.00</b>           | <b>514,150.40</b>                | <b>577,222.00</b>            |
|                      | \$ (0.00)         | \$ -                        | \$ (0.00)                        | \$ -                         |

| Expense Category              | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|-------------------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Salaries, Benefits, & Support | 32,964.82         | 69,357.00                   | 27,338.84                        | 71,691.00                    |
| Supplies & Materials          | 2,758.90          | 3,675.00                    | 2,357.97                         | 3,675.00                     |
| Maintenance & Repair          | 14,048.01         | 38,070.00                   | 18,319.53                        | 38,070.00                    |
| Contractual Services          | 32,680.66         | 33,430.00                   | 30,134.51                        | 39,810.00                    |
| Utilities                     | 64,607.77         | 70,381.00                   | 41,807.48                        | 60,811.00                    |
| Other Expenses                | -                 | -                           | -                                | -                            |
| Capital                       | 78,445.00         | 318,410.00                  | 270,245.00                       | 85,000.00                    |
| Other Uses                    | -                 | -                           | -                                | -                            |
| Debt Service                  | 206,868.77        | 213,719.00                  | 194,780.00                       | 213,718.00                   |
| <b>Total</b>                  | <b>432,373.93</b> | <b>747,042.00</b>           | <b>584,983.33</b>                | <b>512,775.00</b>            |
|                               | \$ -              | \$ -                        | \$ -                             | \$ -                         |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Professional Services** - Increase for Inspection

#### Decreases:

**Electricity-** Decrease in need

|                         | FY2023<br>Actual | FY2024<br>Adopted<br>Budget | FY2024<br>Current<br>Budget | FY2025<br>Proposed<br>Budget |
|-------------------------|------------------|-----------------------------|-----------------------------|------------------------------|
| Staffing Levels         |                  |                             |                             |                              |
| Custodian               | 0.65             | 0.65                        | 0.65                        | 0.65                         |
| Event Coordinator       |                  |                             | 0.5                         | 0.5                          |
| <b>DEPARTMENT TOTAL</b> | <b>0.65</b>      | <b>0.65</b>                 | <b>1.15</b>                 | <b>1.15</b>                  |

|            |
|------------|
| Auditorium |
|------------|

| Account                                             | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Auditorium Revenues                                 |                               |                        |                        |                              |                               |                              |
| 195-114-4500-114                                    | Lampo Rental Fees             | 14,000.00              | 13,000.00              | 16,814.27                    | 13,000.00                     | 13,000.00                    |
| 195-195-4030-195                                    | Auditorium Sales Tax          | 627,012.40             | 509,334.00             | 457,785.98                   | 610,381.31                    | 509,334.00                   |
| 195-195-4500-195                                    | Auditorium Rental Fees        | 20,525.00              | 18,500.00              | 11,812.50                    | 15,750.00                     | 18,500.00                    |
| 195-195-4520-195                                    | Auditorium Sound Fees         | 5,487.50               | 3,000.00               | 2,555.00                     | 3,406.67                      | 3,000.00                     |
| 195-195-4700-195                                    | Interest Earned-Auditorium Fd | 3,178.02               | 1,500.00               | 25,182.65                    | 33,576.87                     | 33,388.00                    |
| 195-195-4820-195                                    | Auditorium Sale of Property   | 8.55                   | -                      | -                            | -                             | -                            |
| <b>Total Auditorium Revenues</b>                    |                               | <b>\$ 670,211.47</b>   | <b>\$ 545,334.00</b>   | <b>\$ 514,150.40</b>         | <b>\$ 676,114.84</b>          | <b>\$ 577,222.00</b>         |
| Auditorium Expenditures                             |                               |                        |                        |                              |                               |                              |
| 195-114-5260-114                                    | Lampo Professional Services   | 1,948.38               | 2,200.00               | 1,716.27                     | 2,288.36                      | 2,200.00                     |
| 195-114-5300-114                                    | Lampo Insurance and Bonds     | 1,712.06               | 2,571.00               | 2,436.54                     | 3,248.72                      | 2,718.00                     |
| 195-114-5320-114                                    | Lampo Facility Maintenance    | 3,192.86               | 7,500.00               | 8,476.93                     | 11,302.57                     | 7,500.00                     |
| 195-114-5330-114                                    | Lampo Equipment Mtce          | 403.50                 | 1,050.00               | 42.01                        | 56.01                         | 1,050.00                     |
| 195-114-5590-114                                    | Lampo General Supplies        | 882.46                 | 1,050.00               | 1,013.37                     | 1,351.16                      | 1,050.00                     |
| 195-114-6300-114                                    | Lampo Electricity             | 2,198.31               | 10,000.00              | 1,444.75                     | 1,926.33                      | 2,500.00                     |
| 195-114-6310-114                                    | Lampo Heating Fuels           | 4,894.36               | 4,933.00               | 4,592.65                     | 6,123.53                      | 4,593.00                     |
| 195-195-5010-195                                    | Auditorium Salaries           | 22,766.74              | 43,926.00              | 17,893.60                    | 23,858.13                     | 45,244.00                    |
| 195-195-5020-195                                    | Auditorium Overtime           | 2,028.88               | 6,000.00               | 1,821.55                     | 2,428.73                      | 6,000.00                     |
| 195-195-5030-195                                    | Auditorium Part Time          | -                      | 2,000.00               | 97.50                        | 130.00                        | 2,000.00                     |
| 195-195-5170-195                                    | Auditorium Social Security    | 1,877.20               | 3,973.00               | 1,492.81                     | 1,990.41                      | 4,074.00                     |
| 195-195-5180-195                                    | Auditorium Retirement         | 837.05                 | 2,497.00               | 965.52                       | 1,287.36                      | 3,075.00                     |
| 195-195-5190-195                                    | Auditorium Health Insurance   | 4,541.51               | 8,686.00               | 3,763.87                     | 5,018.49                      | 8,965.00                     |
| 195-195-5210-195                                    | Auditorium Workers Comp.      | 913.44                 | 2,275.00               | 1,303.99                     | 1,738.65                      | 2,333.00                     |
| 195-195-5260-195                                    | Auditorium Prof. Services     | 7,520.81               | 7,110.00               | 5,553.53                     | 7,404.71                      | 12,110.00                    |
| 195-195-5300-195                                    | Auditorium Insurance & Bonds  | 21,499.41              | 21,549.00              | 20,428.17                    | 27,237.56                     | 22,782.00                    |
| 195-195-5320-195                                    | Auditorium Facility Maint.    | 9,774.75               | 24,520.00              | 9,800.59                     | 13,067.45                     | 24,520.00                    |
| 195-195-5330-195                                    | Auditorium Equipment Maint.   | 676.90                 | 5,000.00               | -                            | -                             | 5,000.00                     |
| 195-195-5590-195                                    | Auditorium General Supplies   | 1,876.44               | 2,625.00               | 1,344.60                     | 1,792.80                      | 2,625.00                     |
| 195-195-6300-195                                    | Auditorium Electricity        | 39,475.24              | 38,000.00              | 23,405.53                    | 31,207.37                     | 38,000.00                    |
| 195-195-6310-195                                    | Auditorium Heating Fuels      | 13,810.22              | 13,000.00              | 9,670.83                     | 12,894.44                     | 13,000.00                    |
| 195-195-6350-195                                    | Auditorium Phones             | 4,229.64               | 4,448.00               | 2,693.72                     | 3,591.63                      | 2,718.00                     |
| <b>Total Auditorium Expenditures</b>                |                               | <b>\$ 147,060.16</b>   | <b>\$ 214,913.00</b>   | <b>\$ 119,958.33</b>         | <b>\$ 159,944.44</b>          | <b>\$ 214,057.00</b>         |
| Auditorium Other Sources                            |                               |                        |                        |                              |                               |                              |
| <b>Total Auditorium Other Sources</b>               |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Auditorium Other Uses                               |                               |                        |                        |                              |                               |                              |
| 195-000-3214-000                                    | Transfer to 2014 COP          | (1,915.46)             | -                      | -                            | -                             | -                            |
| 195-000-3285-000                                    | Trns to Capital Improvement   | 78,445.00              | 318,410.00             | 270,245.00                   | 150,000.00                    | 85,000.00                    |
| 195-000-3221-000                                    | Transfer to 2021 Series DS    | 208,784.23             | 213,719.00             | 194,780.00                   | 213,719.00                    | 213,718.00                   |
| <b>Total Auditorium Other Uses</b>                  |                               | <b>\$ 285,313.77</b>   | <b>\$ 532,129.00</b>   | <b>\$ 465,025.00</b>         | <b>\$ 363,719.00</b>          | <b>\$ 298,718.00</b>         |
| Change in Fund Balance                              |                               | 237,837.54             | (201,708.00)           | (70,832.93)                  | 152,451.40                    | 64,447.00                    |
| <b>Auditorium Beginning Fund Balance"October 1"</b> |                               | <b>\$ 894,617.00</b>   | <b>\$ 1,132,454.54</b> | <b>\$ 1,132,454.54</b>       | <b>\$ 1,132,454.54</b>        | <b>\$ 1,284,905.94</b>       |
| <b>Total Auditorium Funding Sources</b>             |                               | <b>\$ 1,564,828.47</b> | <b>\$ 1,677,788.54</b> | <b>\$ 1,646,604.94</b>       | <b>\$ 1,808,569.38</b>        | <b>\$ 1,862,127.94</b>       |

| Account                                         | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|-------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Total Auditorium Funding Uses                   |              | \$ 432,373.93    | \$ 747,042.00    | \$ 584,983.33       | \$ 523,663.44    | \$ 512,775.00    |
| Auditorium Beginning Fund Balance"September 30" |              | \$ 1,132,454.54  | \$ 930,746.54    | \$ 1,061,621.61     | \$ 1,284,905.94  | \$ 1,349,352.94  |

|                |  |  |              |  |  |              |
|----------------|--|--|--------------|--|--|--------------|
| 90-Day Reserve |  |  |              |  |  | \$ 52,781.18 |
|                |  |  | Days reserve |  |  | 2,300.85     |

| Auditorium Sales Tax  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025 Budgeted | Incentive/ License | Availability Allowance | Social Security | Retirement | Insurance | Work Comp | Total Salary & Benefits |
|----------------------|------|-----------|-----------------|--------------------|------------------------|-----------------|------------|-----------|-----------|-------------------------|
| Weston, Deanna       | 0.65 | 23,326.00 | \$ 24,025.78    |                    |                        | 1,838.00        | 1,442.00   | 5,067.00  | 1,053.00  | \$ 33,425.78            |
| Johnson, Jessica     | 50%  | 20,600.06 | \$ 21,218.06    |                    |                        | 1,624.00        | 1,274.00   | 3,898.00  | 930.00    | \$ 28,944.06            |
|                      | 1.15 | 43,926.06 | 45,243.84       | -                  | -                      | 3,462.00        | 2,716.00   | 8,965.00  | 1,983.00  | \$ 62,369.84            |
| Overtime             |      | 6,000.00  | 6,000.00        |                    |                        |                 |            |           |           |                         |
| Part Time & Seasonal |      | 576.80    | 2,000.00        |                    |                        |                 |            |           |           |                         |
| Total Salaries       |      | 50,502.86 | 53,243.84       |                    |                        |                 |            |           |           |                         |

| Auditorium Sales Tax Revenues |                               | Department Request |                                        |
|-------------------------------|-------------------------------|--------------------|----------------------------------------|
|                               |                               | Amount             | Justification & Supporting Information |
| 195-114-4500-114              | Lampo Rental Fees             | 13,000.00          |                                        |
| 195-195-4030-195              | Auditorium Sales Tax          | 509,334.00         |                                        |
| 195-195-4500-195              | Auditorium Rental Fees        | 18,500.00          | 5 year Historical                      |
| 195-195-4520-195              | Auditorium Sound Fees         | 3,000.00           |                                        |
| 195-195-4700-195              | Interest Earned-Auditorium Fd | 33,388.00          | Historical                             |
| 195-195-4820-195              | Auditorium Sale of Property   |                    |                                        |
|                               |                               | 577,222.00         |                                        |

| Auditorium Sales Tax Expenditures |                              | Amount     | Justification & Supporting Information                                                                                                                                                                 |
|-----------------------------------|------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 195-114-5260-114                  | Lampo Professional Services  | 2,200.00   | Pest Control \$900, Fire Inspection \$200, Kitchen system Inspection \$200, Hood Cleaning \$900                                                                                                        |
| 195-114-5300-114                  | Lampo Insurance and Bonds    | 2,718.00   |                                                                                                                                                                                                        |
| 195-114-5320-114                  | Lampo Facility Maintenance   | 7,500.00   |                                                                                                                                                                                                        |
| 195-114-5330-114                  | Lampo Equipment Mtce         | 1,050.00   |                                                                                                                                                                                                        |
| 195-114-5590-114                  | Lampo General Supplies       | 1,050.00   |                                                                                                                                                                                                        |
| 195-114-6300-114                  | Lampo Electricity            | 2,500.00   |                                                                                                                                                                                                        |
| 195-114-6310-114                  | Lampo Heating Fuels          | 4,593.00   |                                                                                                                                                                                                        |
| 195-195-5010-195                  | Auditorium Salaries          | 45,244.00  |                                                                                                                                                                                                        |
| 195-195-5020-195                  | Auditorium Overtime          | 6,000.00   |                                                                                                                                                                                                        |
| 195-195-5030-195                  | Auditorium Part Time         | 2,000.00   |                                                                                                                                                                                                        |
| 195-195-5170-195                  | Auditorium Social Security   | 4,074.00   |                                                                                                                                                                                                        |
| 195-195-5180-195                  | Auditorium Retirement        | 3,075.00   |                                                                                                                                                                                                        |
| 195-195-5190-195                  | Auditorium Health Insurance  | 8,965.00   |                                                                                                                                                                                                        |
| 195-195-5210-195                  | Auditorium Workers Comp.     | 2,333.00   |                                                                                                                                                                                                        |
| 195-195-5260-195                  | Auditorium Prof. Services    | 12,110.00  | Pest Control \$960, Fire Inspection \$1000, Kitchen Inspection \$150, Hood Cleaning \$900, Fire Security monitoring \$600, Carpet cleaning \$2500, Tile cleaning \$1,000, Sprinkler Inspection \$5,000 |
| 195-195-5300-195                  | Auditorium Insurance & Bonds | 22,782.00  | Property Ins                                                                                                                                                                                           |
| 195-195-5320-195                  | Auditorium Facility Maint.   | 24,520.00  |                                                                                                                                                                                                        |
| 195-195-5330-195                  | Auditorium Equipment Maint.  | 5,000.00   |                                                                                                                                                                                                        |
| 195-195-5590-195                  | Auditorium General Supplies  | 2,625.00   |                                                                                                                                                                                                        |
| 195-195-6300-195                  | Auditorium Electricity       | 38,000.00  |                                                                                                                                                                                                        |
| 195-195-6310-195                  | Auditorium Heating Fuels     | 13,000.00  |                                                                                                                                                                                                        |
| 195-195-6350-195                  | Auditorium Phones            | 2,718.00   |                                                                                                                                                                                                        |
|                                   |                              | 214,057.00 |                                                                                                                                                                                                        |

| Auditorium Sales Tax Other Sources |  | Amount | Justification & Supporting Information |
|------------------------------------|--|--------|----------------------------------------|
|                                    |  |        |                                        |

Auditorium Sales Tax Other Uses  
195-000-3285-000      Trns to Capital Improvement  
  
195-000-3221-000      Transfer to 2021 Series DS

| Amount     | Justification & Supporting Information                                                                                |
|------------|-----------------------------------------------------------------------------------------------------------------------|
| 85,000.00  | Lampo Rigid Conrete Flooring \$25000, Auditorium table and chairs \$60,000, parking lot West of auditorium discussion |
| 213,718.00 | 2021 Debt Principal & Interest Payment & Admin Fees                                                                   |
|            |                                                                                                                       |

|                     |
|---------------------|
| Capital Improvement |
|---------------------|

| Account                                                         | Account Name                                            | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------------|---------------------------------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Capital Improvement Revenues                                    |                                                         |                        |                        |                              |                               |                              |
| 300-300-4030-300                                                | Capital Improvement Sales Tax                           | 418,017.17             | 336,204.00             | 305,190.36                   | 406,920.48                    | 336,204.00                   |
| 300-300-4700-300                                                | Interest Earned Capital                                 | 1,491.27               | 1,200.00               | 11,338.40                    | 15,117.87                     | 13,969.00                    |
| 300-300-4800-300                                                | Miscellaneous Revenue                                   | 133,500.00             | -                      | -                            | -                             | -                            |
| <b>Total Capital Improvement Revenues</b>                       |                                                         | <b>\$ 553,008.44</b>   | <b>\$ 337,404.00</b>   | <b>\$ 316,528.76</b>         | <b>\$ 422,038.35</b>          | <b>\$ 350,173.00</b>         |
| Capital Improvement Expenditures                                |                                                         |                        |                        |                              |                               |                              |
| 300-300-5790-300                                                | Capital Improvement/Purchases                           | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-111                                                | Capital Improvement/Purchases-City Clerk                | 4,051.96               | 52,233.00              | 52,331.42                    | 52,233.00                     | 6,500.00                     |
| 300-300-5790-112                                                | Capital Improvement/Purchases-General Admin             | -                      | 209,630.00             | 197,630.00                   | 209,630.00                    | 470,000.00                   |
| 300-300-5790-115                                                | Capital Improvement/Purchases-Development               | -                      | 12,434.00              | 11,177.51                    | 12,434.00                     | -                            |
| 300-300-5790-118                                                | Capital Improvement/Purchases-Recycle                   | 113,778.00             | 68,000.00              | 42,166.78                    | 68,000.00                     | 65,261.00                    |
| 300-300-5790-120                                                | Capital Improvement/Purchases-Police                    | 476,905.13             | 151,000.00             | 259,719.57                   | 151,000.00                    | 80,000.00                    |
| 300-300-5790-141                                                | Capital Improvement/Purchases-IT                        | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-143                                                | Capital Improvement/Purchases-Fleet Maintenance         | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-144                                                | Capital Improvement/Purchases-Emergency Management      | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-160                                                | Capital Improvement/Purchases-Airport                   | 339,298.01             | 727,538.00             | 481,713.09                   | 727,538.00                    | 754,000.00                   |
| 300-300-5790-130                                                | Capital Improvement/Purchases-Fire                      | 1,193,897.63           | 640,345.00             | 289,000.84                   | 640,345.00                    | 484,985.00                   |
| 300-300-5790-990                                                | Capital Improvement/Purchases-Drainage                  | 332,543.75             | 2,084,114.00           | 1,388,852.84                 | 2,084,114.00                  | 7,703,160.00                 |
| 300-300-5790-175                                                | Capital Improvement/Purchases-Senior Center             | 126,040.59             | 43,000.00              | 24,345.00                    | 43,000.00                     | 25,000.00                    |
| 300-300-5790-195                                                | Capital Improvement/Purchases-Auditorium                | 78,445.00              | 318,410.00             | 295,440.00                   | 318,410.00                    | 85,000.00                    |
| 300-300-5790-750                                                | Capital Improvement/Purchases-Parks & Recreation        | 401,462.20             | 276,376.00             | 277,055.10                   | 276,376.00                    | 987,652.00                   |
| 300-300-5790-430                                                | Capital Improvement/Purchases-Golf Course               | 188,765.19             | 275,367.00             | 166,073.80                   | 275,367.00                    | 300,000.00                   |
| 300-300-5790-800                                                | Capital Improvement/Purchases-Street                    | 240,036.50             | 596,036.00             | 273,955.54                   | 596,036.00                    | 229,500.00                   |
| 300-300-5790-204                                                | Capital Improvement/Purchases-Cemetery                  | 72,711.78              | 91,107.00              | 41,400.30                    | 91,107.00                     | 39,000.00                    |
| <b>Total Capital Improvement Expenditures</b>                   |                                                         | <b>\$ 3,567,935.74</b> | <b>\$ 5,545,590.00</b> | <b>\$ 3,800,861.79</b>       | <b>\$ 5,545,590.00</b>        | <b>\$ 11,230,058.00</b>      |
| Capital Improvement Other Sources                               |                                                         |                        |                        |                              |                               |                              |
| 300-000-3385-112                                                | Transfer to Capital Improvement/Purchases-General Adm   | -                      | 209,630.00             | 197,630.00                   | 209,630.00                    | 470,000.00                   |
| 300-000-3385-111                                                | Transfer to Capital Improvement/Purchases-City Clerk    | 4,051.96               | 52,233.00              | 52,331.42                    | 52,233.00                     | 6,500.00                     |
| 300-000-3385-115                                                | Transfer to Capital Improvement/Purchases-Development   | -                      | 12,434.00              | 11,177.51                    | 12,434.00                     | -                            |
| 300-000-3385-118                                                | Transfer to Capital Improvement/Purchases-Recycle Cent  | 113,778.00             | 68,000.00              | 42,166.78                    | 68,000.00                     | 65,261.00                    |
| 300-000-3385-120                                                | Transfer to Capital Improvement/Purchases-Police Depart | 359,420.12             | 151,000.00             | 259,719.57                   | 151,000.00                    | 80,000.00                    |
| 300-000-3385-160                                                | Transfer to Capital Improvement/Purchases-Airport       | 50,136.19              | 727,538.00             | 481,713.09                   | 727,538.00                    | 754,000.00                   |
| 300-000-3385-130                                                | Transfer to Capital Improvement/Purchases-Fire Departm  | 1,086,397.64           | 640,345.00             | 289,000.84                   | 640,345.00                    | 484,985.00                   |
| 300-000-3385-170                                                | Transfer to Capital Improvement/Purchases-Drainage      | 284,955.57             | 2,084,114.00           | 1,388,852.84                 | 2,084,114.00                  | 7,703,160.00                 |
| 300-000-3385-175                                                | Transfer to Capital Improvement/Purchases-Senior Center | 118,277.59             | 43,000.00              | 24,345.00                    | 43,000.00                     | 25,000.00                    |
| 300-000-3385-180                                                | Transfer to Capital Improvement/Purchases-Parks & Recr  | 401,462.20             | 276,376.00             | 277,055.10                   | 276,376.00                    | 987,652.00                   |
| 300-000-3385-195                                                | Transfer to Capital Improvement/Purchases-Auditorium    | 78,445.00              | 318,410.00             | 295,440.00                   | 318,410.00                    | 85,000.00                    |
| 300-000-3385-204                                                | Transfer to Capital Improvement/Purchases-IOOF Cemete   | 72,711.78              | 91,107.00              | 41,400.30                    | 91,107.00                     | 39,000.00                    |
| 300-000-3385-450                                                | Transfer to Capital Improvement/Purchases-Golf Course   | 194,664.79             | 275,367.00             | 178,073.80                   | 275,367.00                    | 300,000.00                   |
| 300-000-3385-800                                                | Transfer to Capital Improvement/Purchases-Streets Depar | 175,188.50             | 596,036.00             | 261,955.54                   | 596,036.00                    | 229,500.00                   |
| 300-000-3385-000                                                | Transfer fm Other Funds                                 | (830.40)               | -                      | -                            | -                             | -                            |
| 300-000-3303-000                                                | Transfer fm General                                     | -                      | -                      | -                            | -                             | -                            |
| <b>Total Capital Improvement Other Sources</b>                  |                                                         | <b>\$ 2,938,658.94</b> | <b>\$ 5,545,590.00</b> | <b>\$ 3,800,861.79</b>       | <b>\$ 5,545,590.00</b>        | <b>\$ 11,230,058.00</b>      |
| Capital Improvement Other Uses                                  |                                                         |                        |                        |                              |                               |                              |
| 300-000-3242-000                                                | Transfer to Golf Cap Imp Debt                           | 251,952.00             | 251,950.00             | 188,964.00                   | 251,950.00                    | 441,738.00                   |
| 300-000-3243-000                                                | Transfer to Parks Department                            | -                      | -                      | -                            | -                             | -                            |
| <b>Total Capital Improvement Other Uses</b>                     |                                                         | <b>\$ 251,952.00</b>   | <b>\$ 251,950.00</b>   | <b>\$ 188,964.00</b>         | <b>\$ 251,950.00</b>          | <b>\$ 441,738.00</b>         |
| Change in Fund Balance                                          |                                                         | (328,220.36)           | 85,454.00              | 127,564.76                   | 170,088.35                    | (91,565.00)                  |
| <b>Capital Improvement Beginning Fund Balance"October 1"</b>    |                                                         | <b>\$ 482,736.00</b>   | <b>\$ 154,515.64</b>   | <b>\$ 154,515.64</b>         | <b>\$ 154,515.64</b>          | <b>\$ 324,603.99</b>         |
| <b>Total Capital Improvement Funding Sources</b>                |                                                         | <b>\$ 3,974,403.38</b> | <b>\$ 6,037,509.64</b> | <b>\$ 4,271,906.19</b>       | <b>\$ 6,122,143.99</b>        | <b>\$ 11,904,834.99</b>      |
| <b>Total Capital Improvement Funding Uses</b>                   |                                                         | <b>\$ 3,819,887.74</b> | <b>\$ 5,797,540.00</b> | <b>\$ 3,989,825.79</b>       | <b>\$ 5,797,540.00</b>        | <b>\$ 11,671,796.00</b>      |
| <b>Capital Improvement Beginning Fund Balance"September 30"</b> |                                                         | <b>\$ 154,515.64</b>   | <b>\$ 239,969.64</b>   | <b>\$ 282,080.40</b>         | <b>\$ 324,603.99</b>          | <b>\$ 233,038.99</b>         |

90-Day Reserve

|      |
|------|
| \$ - |
|------|



## Capital Improvement Sales Tax

### Capital Improvement Sales Tax Revenues

300-300-4030-300 Capital Improvement Sales Tax  
300-300-4700-300 Interest Earned-Econ Develop

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 336,204.00         |                                        |
| 13,969.00          |                                        |
| 350,173.00         |                                        |

### Capital Improvement Sales Tax Expenditures

300-300-5790-300 Capital Improvement/Purchases  
300-300-5790-111 Capital Improvement/Purchases-City Clerk  
300-300-5790-112 Capital Improvement/Purchases-General Admin  
300-300-5790-115 Capital Improvement/Purchases-Development  
300-300-5790-118 Capital Improvement/Purchases-Recycle  
300-300-5790-120 Capital Improvement/Purchases-Police  
300-300-5790-141 Capital Improvement/Purchases-IT  
300-300-5790-143 Capital Improvement/Purchases-Fleet Maintenance  
300-300-5790-144 Capital Improvement/Purchases-Emergency Management  
300-300-5790-160 Capital Improvement/Purchases-Airport

| Amount        | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                        |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6,500.00      | E-Code 360 hyperlink code updates                                                                                                                                                                                                                                                                                                                                             |
| 470,000.00    | City Hall Façade, City Hall HVAC, Van replacement vehicle                                                                                                                                                                                                                                                                                                                     |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| 65,261.00     | Skid Steer \$63,238. Food Waste Hopper \$2,023                                                                                                                                                                                                                                                                                                                                |
| 80,000.00     | Patrol Cars 2 \$80,000 would allow \$5000 trade in each                                                                                                                                                                                                                                                                                                                       |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| 754,000.00    | T-Hanger - \$680,000 with City funds of \$63,000, Slurry Seal Terry Johnson \$11,000                                                                                                                                                                                                                                                                                          |
| 484,985.00    | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000                                                                                                                                                                                                                                            |
| 7,703,160.00  | Stratford & Freeman Street (DED project) \$2,390,497, DNR ARPA Cost Share \$4,952,664, Land Purchase retention \$300,000, Mower replacement \$20,000, 20% match retention pond \$40,000                                                                                                                                                                                       |
| 25,000.00     |                                                                                                                                                                                                                                                                                                                                                                               |
| 85,000.00     |                                                                                                                                                                                                                                                                                                                                                                               |
| 987,652.00    | Bicycle Trails \$152,652, City share \$60,000, Morse Park Ball Field Lighting \$30,000, Christmas Lighting Displays \$10,000, Asphalt two areas \$ 10,000, New Sidewalk- ADA Restroom Scenic Park-Pavillion Scenic Park with ADA parking \$225,000, Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architectural Design Aquatic Center \$500,000 |
| 300,000.00    | 9 holes New Irrigation System incl. lines, heads                                                                                                                                                                                                                                                                                                                              |
| 229,500.00    | Trailer for mini excavator \$15,000 (surplus 2), snow box for skid steer \$7,000, electricity and lights in storagee barn 50% share \$7,500, ADA curbing \$200,000                                                                                                                                                                                                            |
| 39,000.00     | Cemetery Roads \$35,000, Surveyor \$4,000                                                                                                                                                                                                                                                                                                                                     |
| 11,230,058.00 |                                                                                                                                                                                                                                                                                                                                                                               |

### Capital Improvement Sales Tax Other Sources

300-000-3385-112 Transfer to Capital Improvement/Purchases-General Admin  
300-000-3385-111 Transfer to Capital Improvement/Purchases-City Clerk  
300-000-3385-115 Transfer to Capital Improvement/Purchases-Development  
300-000-3385-118 Transfer to Capital Improvement/Purchases-Recycle Center  
300-000-3385-120 Transfer to Capital Improvement/Purchases-Police Department  
300-000-3385-160 Transfer to Capital Improvement/Purchases-Airport  
300-000-3385-130 Transfer to Capital Improvement/Purchases-Fire Department  
300-000-3385-170 Transfer to Capital Improvement/Purchases-Drainage  
300-000-3385-175 Transfer to Capital Improvement/Purchases-Senior Center  
300-000-3385-180 Transfer to Capital Improvement/Purchases-Parks & Recreation

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                        |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 470,000.00   | City Hall Façade, City Hall HVAC, Van replacement vehicle                                                                                                                                                                                                                                                                                                                     |
| 6,500.00     | E-Code 360 hyperlink code updates                                                                                                                                                                                                                                                                                                                                             |
| -            |                                                                                                                                                                                                                                                                                                                                                                               |
| 65,261.00    | Skid Steer \$63,238. Food Waste Hopper \$2,023                                                                                                                                                                                                                                                                                                                                |
| 80,000.00    | Patrol Cars 2 \$80,000 would allow \$5000 trade in each                                                                                                                                                                                                                                                                                                                       |
| 754,000.00   | T-Hanger - \$680,000 with City funds of \$63,000, Slurry Seal Terry Johnson \$11,000                                                                                                                                                                                                                                                                                          |
| 484,985.00   | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000                                                                                                                                                                                                                                            |
| 7,703,160.00 | Stratford & Freeman Street (DED project) \$2,390,497, DNR ARPA Cost Share \$4,952,664, Land Purchase retention \$300,000, Mower replacement \$20,000, 20% match retention pond \$40,000                                                                                                                                                                                       |
| 25,000.00    |                                                                                                                                                                                                                                                                                                                                                                               |
| 987,652.00   | Bicycle Trails \$152,652, City share \$60,000, Morse Park Ball Field Lighting \$30,000, Christmas Lighting Displays \$10,000, Asphalt two areas \$ 10,000, New Sidewalk- ADA Restroom Scenic Park-Pavillion Scenic Park with ADA parking \$225,000, Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architectural Design Aquatic Center \$500,000 |

| Capital Improvement Sales Tax Other Sources |                                                              | Amount        | Justification & Supporting Information                                                                                                                            |
|---------------------------------------------|--------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 300-000-3385-195                            | Transfer to Capital Improvement/Purchases-Auditorium         | 85,000.00     |                                                                                                                                                                   |
| 300-000-3385-204                            | Transfer to Capital Improvement/Purchases-IOOF Cemetery      | 39,000.00     | Cemetery Roads \$35,000, Surveyor \$4,000                                                                                                                         |
| 300-000-3385-450                            | Transfer to Capital Improvement/Purchases-Golf Course        | 300,000.00    | 9 holes New Irrigation System incl. lines, heads                                                                                                                  |
| 300-000-3385-800                            | Transfer to Capital Improvement/Purchases-Streets Department | 229,500.00    | Trailer for mini excavator \$15,000 (surplus 2), snow box for skid steer \$7,000, electricity and lights in storage barn 50% share \$7,500, ADA curbing \$200,000 |
| 300-000-3385-000                            | Transfer fm Other Funds                                      |               |                                                                                                                                                                   |
| 300-000-3303-000                            | Transfer fm General                                          |               |                                                                                                                                                                   |
|                                             |                                                              | 11,230,058.00 | -                                                                                                                                                                 |
| Capital Improvement Sales Tax Other Uses    |                                                              | Amount        | Justification & Supporting Information                                                                                                                            |
| 300-000-3220-000                            | Transfer to 2012A&B Fund                                     |               |                                                                                                                                                                   |
| 300-000-3242-000                            | Transfer to Golf Cap Imp Debt                                | 441,738.00    |                                                                                                                                                                   |
| 300-000-3243-000                            | Transfer to Parks Department                                 |               |                                                                                                                                                                   |
|                                             |                                                              |               |                                                                                                                                                                   |

Hotel/Motel

| Account                                                 | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Hotel/Motel Revenues                                    |                                |                      |                      |                              |                               |                              |
| 310-310-4040-330                                        | Motel Tax Revenue              | 93,527.17            | 95,317.00            | 80,641.93                    | 107,522.57                    | 95,317.00                    |
| 310-310-4700-330                                        | Interest Earned-Hotel/Motel    | 1,147.09             | 1,000.00             | 6,929.66                     | 9,239.55                      | 8,992.00                     |
| <b>Total Hotel/Motel Revenues</b>                       |                                | <b>\$ 94,674.26</b>  | <b>\$ 96,317.00</b>  | <b>\$ 87,571.59</b>          | <b>\$ 116,762.12</b>          | <b>\$ 104,309.00</b>         |
| Hotel/Motel Expenditures                                |                                |                      |                      |                              |                               |                              |
| 310-310-5240-330                                        | Motel Promotions               | 76,598.72            | 102,738.00           | 79,384.01                    | 105,845.35                    | 68,200.00                    |
| 310-310-6300-310                                        | Hotel Motel Electricity        | 138.11               | 600.00               | 443.45                       | 591.27                        | 600.00                       |
| 310-310-6520-330                                        | Easter Event                   | 305.00               | 305.00               | 320.00                       | 320.00                        | 320.00                       |
| <b>Total Hotel/Motel Expenditures</b>                   |                                | <b>\$ 77,041.83</b>  | <b>\$ 103,643.00</b> | <b>\$ 80,147.46</b>          | <b>\$ 106,756.61</b>          | <b>\$ 69,120.00</b>          |
| Hotel/Motel Other Sources                               |                                |                      |                      |                              |                               |                              |
| <b>Total Hotel/Motel Other Sources</b>                  |                                | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Hotel/Motel Other Uses                                  |                                |                      |                      |                              |                               |                              |
| 310-000-3210-000                                        | Tran to General Adm 3% Adm Cst | 2,832.00             | 2,860.00             | 2,151.00                     | 2,860.00                      | 2,860.00                     |
| 310-000-3255-000                                        | Transfer to -Celebrate         | 15,000.00            | 19,500.00            | 19,500.00                    | 19,500.00                     | 7,500.00                     |
| 310-000-3256-000                                        | Tran to -Fall Festival         | 15,000.00            | 13,000.00            | 13,000.00                    | 13,000.00                     | 15,000.00                    |
| 310-000-3211-000                                        | Transfer to Gen. PR Coord      | -                    | -                    | -                            | -                             | -                            |
| <b>Total Hotel/Motel Other Uses</b>                     |                                | <b>\$ 32,832.00</b>  | <b>\$ 35,360.00</b>  | <b>\$ 34,651.00</b>          | <b>\$ 35,360.00</b>           | <b>\$ 25,360.00</b>          |
| Change in Fund Balance                                  |                                | (15,199.57)          | (42,686.00)          | (27,226.87)                  | (25,354.49)                   | 9,829.00                     |
| <b>Hotel/Motel Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 308,242.00</b> | <b>\$ 293,042.43</b> | <b>\$ 293,042.43</b>         | <b>\$ 293,042.43</b>          | <b>\$ 267,687.94</b>         |
| <b>Total Hotel/Motel Funding Sources</b>                |                                | <b>\$ 402,916.26</b> | <b>\$ 389,359.43</b> | <b>\$ 380,614.02</b>         | <b>\$ 409,804.55</b>          | <b>\$ 371,996.94</b>         |
| <b>Total Hotel/Motel Funding Uses</b>                   |                                | <b>\$ 109,873.83</b> | <b>\$ 139,003.00</b> | <b>\$ 114,798.46</b>         | <b>\$ 142,116.61</b>          | <b>\$ 94,480.00</b>          |
| <b>Hotel/Motel Beginning Fund Balance"September 30"</b> |                                | <b>\$ 293,042.43</b> | <b>\$ 250,356.43</b> | <b>\$ 265,815.56</b>         | <b>\$ 267,687.94</b>          | <b>\$ 277,516.94</b>         |

90-Day Reserve

\$ 17,043.29

Days reserve

1,465.48

## Hotel/Motel

### Hotel/Motel Revenues

310-310-4040-330 Motel Tax Revenue  
310-310-4700-330 Interest Earned-Hotel/Motel

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 95,317.00          |                                        |
| 8,992.00           |                                        |
| 104,309.00         |                                        |

### Hotel/Motel Expenditures

310-310-5240-330 Motel Promotions  
  
310-310-6300-310 Hotel Motel Electricity  
310-310-6520-330 Easter Event

| Amount    | Justification & Supporting Information                                                                                                                                                                                                                                  |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 68,200.00 | Crowder College Roughrider Scholarship Rodeo \$2,000; Neosho Disc Golf Tournament \$3,000; Neosho Fireworks \$20000; Neosho Arts Council ArtCon \$8,000, Digital advertising \$5,700, Chamber Membership \$20,000, Neosho Fair \$4,500, Neosho Public Relations \$5,000 |
| 600.00    | Square Electric                                                                                                                                                                                                                                                         |
| 320.00    |                                                                                                                                                                                                                                                                         |
| 69,120.00 |                                                                                                                                                                                                                                                                         |

### Hotel/Motel Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

### Hotel/Motel Other Uses

310-000-3210-000 Tran to General Adm 3% Adm Cst  
310-000-3255-000 Transfer to -Celebrate  
310-000-3256-000 Tran to -Fall Festival  
310-000-3211-000 Transfer to Gen. PR Coord

| Amount    | Justification & Supporting Information |
|-----------|----------------------------------------|
| 2,860.00  |                                        |
| 7,500.00  |                                        |
| 15,000.00 |                                        |
|           |                                        |

## Golf Course

David Kennedy  
City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

The Neosho Municipal Golf Course is a beautiful 18-hole facility with two different nine-hole layouts. The original nine-hole course was constructed in 1924 by famous golf architect Perry Maxwell. March 2024 Contract with Maxim Golf, LLC for Golf Course Management.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                   | -                     | -                          | -                      |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 600,958.56          | 439,900.00            | 124,793.00                 | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 1,623.82            | -                     | 188,142.88                 | 575,000.00             |
| Other Sources        | 509,179.09          | 371,950.00            | 188,964.00                 | 541,738.00             |
| <b>Total</b>         | <b>1,111,761.47</b> | <b>811,850.00</b>     | <b>501,899.88</b>          | <b>1,116,738.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 277,436.46        | 327,641.00            | 88,533.52                  | -                      |
| Supplies & Materials          | 64,338.39         | 70,300.00             | 47,071.13                  | -                      |
| Maintenance & Repair          | 62,859.11         | 68,675.00             | 23,477.37                  | -                      |
| Contractual Services          | 32,720.48         | 35,202.00             | 140,676.84                 | 615,419.00             |
| Utilities                     | 31,863.16         | 32,670.00             | 13,815.05                  | -                      |
| Other Expenses                | 86,167.52         | 81,779.00             | 18,647.96                  | 270.00                 |
| Capital                       | 222,874.15        | 294,174.00            | 178,073.80                 | 300,000.00             |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | 218,577.38        | 251,950.00            | 233,075.55                 | 241,738.00             |
| <b>Total</b>                  | <b>996,836.65</b> | <b>1,162,391.00</b>   | <b>743,371.22</b>          | <b>1,157,427.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Contracted Services:** Golf Management Fees

**All revenue and expense reported under 1 line with Management Company**

**March 2024 contracted with Management Company**

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| ProShop Supervisor      |               | 1                     | 1                     | 1                      |
| Grounds Supervisor      |               | 1                     | 1                     | 1                      |
| Lead Greenskeeper       |               | 1                     | 1                     | 1                      |
| Golf Manager            |               |                       | 1                     | 1                      |
| <b>DEPARTMENT TOTAL</b> |               | <b>3</b>              | <b>4</b>              | <b>4</b>               |
|                         |               |                       |                       | <b>0</b>               |

|             |
|-------------|
| Golf Course |
|-------------|

| Account                                | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Golf Course Revenues                   |                                |                      |                      |                              |                               |                              |
| 450-150-4350-430                       | Golf Course Fees               | 176,674.10           | 145,000.00           | 45,495.00                    | 60,660.00                     | -                            |
| 450-150-4360-430                       | Golf Cart Rentals              | 174,931.75           | 130,000.00           | 44,408.00                    | 59,210.67                     | -                            |
| 450-150-4370-430                       | Passes for Fees                | 103,791.48           | 80,000.00            | 3,897.00                     | 5,196.00                      | -                            |
| 450-150-4380-430                       | Pro Shop Revenue               | 45,395.75            | 30,000.00            | 10,991.75                    | 14,655.67                     | -                            |
| 450-150-4390-430                       | Driving Range Revenue          | 10,496.00            | 5,000.00             | 2,199.00                     | 2,932.00                      | -                            |
| 450-150-4420-430                       | Golf Concessions Revenue       | 53,781.48            | 35,000.00            | 12,202.25                    | 16,269.67                     | -                            |
| 450-150-4500-430                       | Community Room Rental          | -                    | -                    | -                            | -                             | -                            |
| 450-150-4700-430                       | Interest Earned-Golf Course    | 260.57               | -                    | 2,182.60                     | 2,910.13                      | -                            |
| 450-150-4760-430                       | Insurance Proceeds             | -                    | -                    | 19,000.00                    | 25,333.33                     | -                            |
| 450-150-4800-430                       | Golf Course Miscellaneous      | 1,363.25             | -                    | 166,960.28                   | 222,613.71                    | 575,000.00                   |
| 450-150-4820-430                       | Sale of Property               | -                    | -                    | -                            | -                             | -                            |
| 450-150-4993-430                       | Advertising Revenue            | 250.00               | 500.00               | -                            | -                             | -                            |
| 450-150-4352-430                       | Tournament Fees                | 35,638.00            | 14,400.00            | 5,600.00                     | 7,466.67                      | -                            |
| <b>Total Golf Course Revenues</b>      |                                | <b>\$ 602,582.38</b> | <b>\$ 439,900.00</b> | <b>\$ 312,935.88</b>         | <b>\$ 417,247.84</b>          | <b>\$ 575,000.00</b>         |
| Golf Course Expenditures               |                                |                      |                      |                              |                               |                              |
| 450-150-5010-430                       | Golf Course Salaries           | 118,839.17           | 161,397.00           | 40,095.23                    | 161,397.00                    | -                            |
| 450-150-5020-430                       | Golf Course Overtime           | 6,075.47             | 5,000.00             | 1,877.91                     | 2,503.88                      | -                            |
| 450-150-5030-430                       | Golf Course Part Time          | 95,744.37            | 87,128.00            | 33,420.26                    | 44,560.35                     | -                            |
| 450-150-5070-430                       | Availability Allowance         | 360.00               | 360.00               | 30.00                        | 40.00                         | -                            |
| 450-150-5170-430                       | Golf Course Social Security    | 16,838.95            | 19,395.00            | 5,741.26                     | 15,947.28                     | -                            |
| 450-150-5180-430                       | Golf Course Retirement         | 3,800.55             | 8,320.00             | 335.22                       | 446.96                        | -                            |
| 450-150-5190-430                       | Golf Course Health Insurance   | 20,742.38            | 30,211.00            | 3,735.58                     | 4,980.77                      | -                            |
| 450-150-5210-430                       | Golf Course Workers Comp.      | 14,513.27            | 11,105.00            | 3,185.76                     | 4,247.68                      | -                            |
| 450-150-5260-430                       | Golf Course Prof. Services     | 12,221.26            | 10,511.00            | 118,620.80                   | 158,161.07                    | 554,391.00                   |
| 450-150-5265-430                       | Golf Mngmt Contracted Services | -                    | -                    | 3,667.00                     | 4,889.33                      | 45,000.00                    |
| 450-150-5270-430                       | Golf Course Credit Card Fees   | 11,004.20            | 9,450.00             | 3,961.22                     | 5,281.63                      | -                            |
| 450-150-5300-430                       | Golf Insurance & Bonds         | 9,495.02             | 15,241.00            | 14,427.82                    | 19,237.09                     | 16,028.00                    |
| 450-150-5310-430                       | Golf Course Concession Cost    | 25,242.26            | 31,500.00            | 6,124.80                     | 8,166.40                      | -                            |
| 450-150-5314-430                       | Golf Course Accessories        | 36,813.98            | 26,250.00            | 4,932.56                     | 6,576.75                      | -                            |
| 450-150-5325-430                       | Grounds Maintenance            | 40,980.34            | 40,000.00            | 162.46                       | 216.61                        | -                            |
| 450-150-5330-430                       | Golf Equipment Maintenance     | 9,814.03             | 15,000.00            | 14,932.62                    | 19,910.16                     | -                            |
| 450-150-5320-430                       | Golf Facility Maintenance      | 8,351.19             | 10,000.00            | 7,401.90                     | 9,869.20                      | -                            |
| 450-150-5335-430                       | Golf Cart Maintenance          | 3,713.55             | 3,675.00             | 980.39                       | 1,307.19                      | -                            |
| 450-150-5350-430                       | Driving Range Expense          | 1,889.26             | 1,575.00             | -                            | -                             | -                            |
| 450-150-5360-430                       | Golf Course Member/Train/Trvl  | -                    | 1,050.00             | 80.00                        | 106.67                        | -                            |
| 450-150-5380-430                       | Uniforms                       | 522.30               | 3,675.00             | 32.30                        | 43.07                         | -                            |
| 450-150-5530-430                       | Golf Course Fuels/Lubricants   | 20,983.11            | 21,000.00            | 7,017.22                     | 9,356.29                      | -                            |
| 450-150-5540-430                       | Golf Course Chemicals          | 55,549.53            | 60,000.00            | 45,695.44                    | 60,927.25                     | -                            |
| 450-150-5590-430                       | Golf Course General Supplies   | 5,165.76             | 6,300.00             | 1,375.69                     | 1,834.25                      | -                            |
| 450-150-5700-430                       | Golf Course Computer/Software  | 1,238.91             | 1,454.00             | 573.38                       | 764.51                        | 270.00                       |
| 450-150-6300-430                       | Golf Course Electricity        | 26,942.87            | 27,000.00            | 10,597.13                    | 14,129.51                     | -                            |
| 450-150-6350-430                       | Golf Course Phones             | 4,920.29             | 5,670.00             | 3,217.92                     | 4,290.56                      | -                            |
| 450-150-6380-430                       | Lease Payments                 | 28,209.36            | 18,807.00            | -                            | -                             | -                            |
| 450-150-5610-430                       | City Tournament Expense        | 3,623.10             | 4,000.00             | -                            | -                             | -                            |
| <b>Total Golf Course Expenditures</b>  |                                | <b>\$ 583,594.48</b> | <b>\$ 635,074.00</b> | <b>\$ 332,221.87</b>         | <b>\$ 559,191.46</b>          | <b>\$ 615,689.00</b>         |
| Golf Course Other Sources              |                                |                      |                      |                              |                               |                              |
| 450-000-3340-000                       | Transfer fm General            | 195,235.09           | 120,000.00           | -                            | 120,000.00                    | 100,000.00                   |
| 450-000-3341-000                       | Transfer fm Parks -Mtce        | 61,992.00            | -                    | -                            | -                             | -                            |
| 450-000-3342-000                       | Transfer fm Capital Imp        | 251,952.00           | 251,950.00           | 188,964.00                   | 251,950.00                    | 441,738.00                   |
| <b>Total Golf Course Other Sources</b> |                                | <b>\$ 509,179.09</b> | <b>\$ 371,950.00</b> | <b>\$ 188,964.00</b>         | <b>\$ 371,950.00</b>          | <b>\$ 541,738.00</b>         |

| Account                                                 | Account Name                | FY2023<br>Actual       | FY2024<br>Budget       | 6/30/2024<br>Actual    | FY2024<br>Actual       | FY2025<br>Budget       |
|---------------------------------------------------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Golf Course Other Uses                                  |                             |                        |                        |                        |                        |                        |
| 450-000-3276-000                                        | Transfer to 2016 DS         | 218,577.38             | 251,950.00             | 233,075.55             | 251,950.00             | 241,738.00             |
| 450-000-3285-000                                        | Trns to Capital Improvement | 194,664.79             | 275,367.00             | 178,073.80             | 275,367.00             | 300,000.00             |
| <b>Total Golf Course Other Uses</b>                     |                             | <b>\$ 413,242.17</b>   | <b>\$ 527,317.00</b>   | <b>\$ 411,149.35</b>   | <b>\$ 527,317.00</b>   | <b>\$ 541,738.00</b>   |
| Change in Fund Balance                                  |                             | 114,924.82             | (350,541.00)           | (241,471.34)           | (297,310.62)           | (40,689.00)            |
| <b>Golf Course Beginning Fund Balance"October 1"</b>    |                             | <b>\$ 458,155.00</b>   | <b>\$ 573,079.82</b>   | <b>\$ 573,079.82</b>   | <b>\$ 573,079.82</b>   | <b>\$ 275,769.20</b>   |
| <b>Total Golf Course Funding Sources</b>                |                             | <b>\$ 1,569,916.47</b> | <b>\$ 1,384,929.82</b> | <b>\$ 1,074,979.70</b> | <b>\$ 1,362,277.66</b> | <b>\$ 1,392,507.20</b> |
| <b>Total Golf Course Funding Uses</b>                   |                             | <b>\$ 996,836.65</b>   | <b>\$ 1,162,391.00</b> | <b>\$ 743,371.22</b>   | <b>\$ 1,086,508.46</b> | <b>\$ 1,157,427.00</b> |
| <b>Golf Course Beginning Fund Balance"September 30"</b> |                             | <b>\$ 573,079.82</b>   | <b>\$ 222,538.82</b>   | <b>\$ 331,608.48</b>   | <b>\$ 275,769.20</b>   | <b>\$ 235,080.20</b>   |

90-Day Reserve

\$ 151,813.73

Days reserve

139.36

| Golf Course           |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | # | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work Comp | Total Salary<br>& Benefits |
|----------------------|---|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|-----------|----------------------------|
| Garner, Alex         |   | 38,198.99  |                    |                       |                           |                    |            |           |           | \$ -                       |
| Superintendent       |   | 52,910.58  |                    |                       |                           |                    |            |           |           | \$ -                       |
| N/A                  |   | 37,080.00  |                    |                       |                           | -                  | -          | -         | -         | \$ -                       |
| N/A                  |   | 33,207.20  |                    |                       |                           | -                  | -          | -         | -         | \$ -                       |
|                      | - | 161,396.77 | -                  | -                     | -                         | -                  | -          | -         | -         | \$ -                       |
| Overtime             |   | 2,503.88   |                    |                       |                           | \$ -               |            |           |           |                            |
| Part Time & Seasonal |   | 44,560.35  |                    |                       |                           |                    |            |           |           |                            |
| Total Salaries       |   | 208,461.00 | -                  |                       |                           |                    |            |           |           |                            |

|                      |                             | Department Request |                                        |
|----------------------|-----------------------------|--------------------|----------------------------------------|
|                      |                             | Amount             | Justification & Supporting Information |
| Golf Course Revenues |                             |                    |                                        |
| 450-150-4350-430     | Golf Course Fees            |                    |                                        |
| 450-150-4360-430     | Golf Cart Rentals           |                    |                                        |
| 450-150-4370-430     | Passes for Fees             |                    |                                        |
| 450-150-4380-430     | Pro Shop Revenue            |                    |                                        |
| 450-150-4390-430     | Driving Range Revenue       |                    |                                        |
| 450-150-4420-430     | Golf Concessions Revenue    |                    |                                        |
| 450-150-4500-430     | Community Room Rental       |                    |                                        |
| 450-150-4700-430     | Interest Earned-Golf Course |                    |                                        |
| 450-150-4760-430     | Insurance Proceeds          |                    |                                        |
| 450-150-4800-430     | Golf Course Miscellaneous   | 575,000.00         |                                        |
| 450-150-4820-430     | Sale of Property            |                    |                                        |
| 450-150-4993-430     | Advertising Revenue         |                    |                                        |
| 450-150-4352-430     | Tournament Fees             |                    |                                        |
|                      |                             |                    |                                        |
|                      |                             |                    |                                        |
|                      |                             | 575,000.00         |                                        |

|                          |                                | Amount     | Justification & Supporting Information                                                                                                                                                                                                     |
|--------------------------|--------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Golf Course Expenditures |                                |            |                                                                                                                                                                                                                                            |
| 450-150-5260-430         | Golf Course Prof. Services     | 554,391.00 | ForeUp \$7,380, Stronghold \$1,896, liquor license renewal \$600, newton county liquor license, \$56.00 TEC security \$378, Soil testing \$200, Fire inspection \$300, Pest Control \$480, AED Inspections \$100, Maxim Expenses \$536,171 |
| 450-150-5265-430         | Golf Mngmt Contracted Services | 45,000.00  | Maxim Management Fees                                                                                                                                                                                                                      |
| 450-150-5270-430         | Golf Course Credit Card Fees   |            |                                                                                                                                                                                                                                            |
| 450-150-5300-430         | Golf Insurance & Bonds         | 16,028.00  | Property Ins                                                                                                                                                                                                                               |
| 450-150-5310-430         | Golf Course Concession Cost    |            | Combines Cost of Goods, Supplies, Equip.Repair, Banq. Rent                                                                                                                                                                                 |
| 450-150-5700-430         | Golf Course Computer/Software  | 270.00     | wifi booster \$270                                                                                                                                                                                                                         |
|                          |                                | 615,689.00 |                                                                                                                                                                                                                                            |

|                           |                         | Amount     | Justification & Supporting Information |
|---------------------------|-------------------------|------------|----------------------------------------|
| Golf Course Other Sources |                         |            |                                        |
| 450-000-3340-000          | Transfer fm General     | 100,000.00 | debt, irrigation system \$300,000      |
| 450-000-3341-000          | Transfer fm Parks -Mtce | -          |                                        |
| 450-000-3342-000          | Transfer fm Capital Imp | 441,738.00 | debt, irrigation system \$300,000      |

|                        |                             | Amount     | Justification & Supporting Information           |
|------------------------|-----------------------------|------------|--------------------------------------------------|
| Golf Course Other Uses |                             |            |                                                  |
| 450-000-3276-000       | Transfer to 2016 DS         | 241,738.00 | 2016 Debt Principal & Interest and Admin Fees    |
| 450-000-3285-000       | Trns to Capital Improvement | 300,000.00 | 9 holes New Irrigation System incl. lines, heads |



## Abbott Brothers Trust

Kenny Balls  
Parks & Recreation Manager  
[Kballs@neoshomo.org](mailto:Kballs@neoshomo.org)

The City of Neosho was gifted a farm in Cimarron County in Oklahoma in 1946 by J.W. Abbott. Proceeds from the farm may be used for maintenance and improvement of Big Spring Park.

| Revenue Category     | FY2023 Actual   | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-----------------|-----------------------|----------------------------|------------------------|
| Taxes                | -               | -                     | -                          | -                      |
| Intergovernmental    | -               | -                     | -                          | -                      |
| Licenses & Permits   | -               | -                     | -                          | -                      |
| Charges for Services | 5,034.69        | 2,700.00              | -                          | 2,700.00               |
| Fines & Forfeitures  | -               | -                     | -                          | -                      |
| Miscellaneous        | 810.62          | 75.00                 | 3,428.96                   | 1,449.00               |
| Other Sources        | -               | -                     | -                          | -                      |
| <b>Total</b>         | <b>5,845.31</b> | <b>2,775.00</b>       | <b>3,428.96</b>            | <b>4,149.00</b>        |
|                      | \$ -            | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -             | -                     | -                          | -                      |
| Supplies & Materials          | -             | -                     | -                          | -                      |
| Maintenance & Repair          | -             | -                     | -                          | -                      |
| Contractual Services          | 192.00        | 200.00                | -                          | 653.00                 |
| Utilities                     | -             | -                     | -                          | -                      |
| Other Expenses                | 157.00        | 158.00                | 153.00                     | 158.00                 |
| Capital                       | -             | -                     | -                          | -                      |
| Other Uses                    | -             | -                     | -                          | -                      |
| Debt Service                  | -             | -                     | -                          | -                      |
| <b>Total</b>                  | <b>349.00</b> | <b>358.00</b>         | <b>153.00</b>              | <b>811.00</b>          |
|                               | \$ -          | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| No FTEs                 |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> |               | <b>0</b>              | <b>0</b>              | <b>0</b>               |

Abbott Brothers

| Account                                                     | Account Name                   | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------------------|--------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Abbott Brothers Revenues                                    |                                |                     |                     |                              |                               |                              |
| 700-700-4570-700                                            | Farm Proceeds                  | 5,034.69            | 2,700.00            | -                            | 2,700.00                      | 2,700.00                     |
| 700-700-4700-700                                            | Int. Earned-Abbott Brothers Fd | 152.62              | 75.00               | 1,114.96                     | 1,486.61                      | 1,449.00                     |
| 700-700-4760-700                                            | Farm Insurance Claims          | 658.00              | -                   | 2,314.00                     | -                             | -                            |
| <b>Total Abbott Brothers Revenues</b>                       |                                | <b>\$ 5,845.31</b>  | <b>\$ 2,775.00</b>  | <b>\$ 3,428.96</b>           | <b>\$ 4,186.61</b>            | <b>\$ 4,149.00</b>           |
| Abbott Brothers Expenditures                                |                                |                     |                     |                              |                               |                              |
| 700-700-5300-700                                            | Insurance and Bonds            | 192.00              | 200.00              | -                            | 192.00                        | 653.00                       |
| 700-700-5440-700                                            | Real Estate Taxes              | 157.00              | 158.00              | 153.00                       | 153.00                        | 158.00                       |
| <b>Total Abbott Brothers Expenditures</b>                   |                                | <b>\$ 349.00</b>    | <b>\$ 358.00</b>    | <b>\$ 153.00</b>             | <b>\$ 345.00</b>              | <b>\$ 811.00</b>             |
| Abbott Brothers Other Sources                               |                                |                     |                     |                              |                               |                              |
| <b>Total Abbott Brothers Other Sources</b>                  |                                | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Abbott Brothers Other Uses                                  |                                |                     |                     |                              |                               |                              |
| 700-000-3243-000                                            | Transfer to Parks Department   | -                   | -                   | -                            | -                             | -                            |
| <b>Total Abbott Brothers Other Uses</b>                     |                                | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                      |                                | 5,496.31            | 2,417.00            | 3,275.96                     | 3,841.61                      | 3,338.00                     |
| <b>Abbott Brothers Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 39,475.00</b> | <b>\$ 44,971.31</b> | <b>\$ 44,971.31</b>          | <b>\$ 44,971.31</b>           | <b>\$ 48,812.92</b>          |
| <b>Total Abbott Brothers Funding Sources</b>                |                                | <b>\$ 45,320.31</b> | <b>\$ 47,746.31</b> | <b>\$ 48,400.27</b>          | <b>\$ 49,157.92</b>           | <b>\$ 52,961.92</b>          |
| <b>Total Abbott Brothers Funding Uses</b>                   |                                | <b>\$ 349.00</b>    | <b>\$ 358.00</b>    | <b>\$ 153.00</b>             | <b>\$ 345.00</b>              | <b>\$ 811.00</b>             |
| <b>Abbott Brothers Beginning Fund Balance"September 30"</b> |                                | <b>\$ 44,971.31</b> | <b>\$ 47,388.31</b> | <b>\$ 48,247.27</b>          | <b>\$ 48,812.92</b>           | <b>\$ 52,150.92</b>          |
| Unrestricted Fund Balance                                   |                                |                     |                     |                              |                               | <b>\$ 25,450.69</b>          |
| Restricted Fund Balance                                     |                                |                     |                     |                              |                               |                              |
| Trust Principal                                             |                                |                     |                     |                              |                               | \$ 26,700.23                 |
| <b>90-Day Reserve</b>                                       |                                |                     |                     |                              |                               | <b>\$ 199.97</b>             |

Abbott Brothers

Abbott Brothers Revenues

|                  |                                |
|------------------|--------------------------------|
| 700-700-4570-700 | Farm Proceeds                  |
| 700-700-4700-700 | Int. Earned-Abbott Brothers Fd |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 2,700.00           | 3 year historical average              |
| 1,449.00           | Lower Fund Balance                     |
|                    |                                        |
| 4,149.00           |                                        |

Abbott Brothers Expenditures

|                  |                     |
|------------------|---------------------|
| 700-700-5300-700 | Insurance and Bonds |
| 700-700-5440-700 | Real Estate Taxes   |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
| 653.00 |                                        |
| 158.00 |                                        |
|        |                                        |
| -      |                                        |

Abbott Brothers Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Abbott Brothers Other Uses

|                  |                              |
|------------------|------------------------------|
| 700-000-3243-000 | Transfer to Parks Department |
|------------------|------------------------------|

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Morse Park Trust

Kenny Balls  
Parks & Recreation Manager  
[Kballs@neoshomo.org](mailto:Kballs@neoshomo.org)

The City of Neosho was named a beneficiary of a trust gift in 2015 by Winona Ruth Wallace. The gift is to be used for improvements to Morse Park.

| Revenue              | FY2023       | FY2024       | FY2024       | FY2025        |
|----------------------|--------------|--------------|--------------|---------------|
| Category             | Actual       | Adopted      | Current YTD  | Proposed      |
|                      |              | Budget       | Actuals      | Budget        |
| Taxes                | -            | -            | -            | -             |
| Intergovernmental    | -            | -            | -            | -             |
| Licenses & Permits   | -            | -            | -            | -             |
| Charges for Services | -            | -            | -            | -             |
| Fines & Forfeitures  | -            | -            | -            | -             |
| Miscellaneous        | 12.83        | 13.00        | 86.74        | 113.00        |
| Other Sources        | -            | -            | -            | -             |
| <b>Total</b>         | <b>12.83</b> | <b>13.00</b> | <b>86.74</b> | <b>113.00</b> |
|                      | \$ -         | \$ -         | \$ -         | \$ -          |

| Expense                       | FY2023   | FY2024   | FY2024      | FY2025   |
|-------------------------------|----------|----------|-------------|----------|
| Category                      | Actual   | Adopted  | Current YTD | Proposed |
|                               |          | Budget   | Actuals     | Budget   |
| Salaries, Benefits, & Support | -        | -        | -           | -        |
| Supplies & Materials          | -        | -        | -           | -        |
| Maintenance & Repair          | -        | -        | -           | -        |
| Contractual Services          | -        | -        | -           | -        |
| Utilities                     | -        | -        | -           | -        |
| Other Expenses                | -        | -        | -           | -        |
| Capital                       | -        | -        | -           | -        |
| Other Uses                    | -        | -        | -           | -        |
| Debt Service                  | -        | -        | -           | -        |
| <b>Total</b>                  | <b>-</b> | <b>-</b> | <b>-</b>    | <b>-</b> |
|                               | \$ -     | \$ -     | \$ -        | \$ -     |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

|                         | FY2023   | FY2024   | FY2024   | FY2025   |
|-------------------------|----------|----------|----------|----------|
| Staffing Levels         | Actual   | Adopted  | Current  | Proposed |
|                         |          | Budget   | Budget   | Budget   |
| No FTEs                 |          |          |          |          |
| <b>DEPARTMENT TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

|                  |
|------------------|
| Morse Park Trust |
|------------------|

| Account                                                      | Account Name                  | FY2023<br>Actual   | FY2024<br>Budget   | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|--------------------------------------------------------------|-------------------------------|--------------------|--------------------|------------------------------|-------------------------------|------------------------------|
| Morse Park Trust Revenues                                    |                               |                    |                    |                              |                               |                              |
| 710-710-4700-710                                             | Interest Earned-Morse Park Fd | 12.83              | 13.00              | 86.74                        | 115.65                        | 113.00                       |
| <b>Total Morse Park Trust Revenues</b>                       |                               | <b>\$ 12.83</b>    | <b>\$ 13.00</b>    | <b>\$ 86.74</b>              | <b>\$ 115.65</b>              | <b>\$ 113.00</b>             |
| Morse Park Trust Expenditures                                |                               |                    |                    |                              |                               |                              |
| <b>Total Morse Park Trust Expenditures</b>                   |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Morse Park Trust Other Sources                               |                               |                    |                    |                              |                               |                              |
| <b>Total Morse Park Trust Other Sources</b>                  |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Morse Park Trust Other Uses                                  |                               |                    |                    |                              |                               |                              |
| <b>Total Morse Park Trust Other Uses</b>                     |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                       |                               | 12.83              | 13.00              | 86.74                        | 115.65                        | 113.00                       |
| <b>Morse Park Trust Beginning Fund Balance"October 1"</b>    |                               | <b>\$ 3,653.00</b> | <b>\$ 3,665.83</b> | <b>\$ 3,665.83</b>           | <b>\$ 3,665.83</b>            | <b>\$ 3,781.48</b>           |
| <b>Total Morse Park Trust Funding Sources</b>                |                               | <b>\$ 3,665.83</b> | <b>\$ 3,678.83</b> | <b>\$ 3,752.57</b>           | <b>\$ 3,781.48</b>            | <b>\$ 3,894.48</b>           |
| <b>Total Morse Park Trust Funding Uses</b>                   |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Morse Park Trust Beginning Fund Balance"September 30"</b> |                               | <b>\$ 3,665.83</b> | <b>\$ 3,678.83</b> | <b>\$ 3,752.57</b>           | <b>\$ 3,781.48</b>            | <b>\$ 3,894.48</b>           |
| Unrestricted Fund Balance                                    |                               |                    |                    |                              |                               | <b>\$ 1,394.48</b>           |
| Restricted Fund Balance                                      |                               |                    |                    |                              |                               |                              |
| Trust Principal                                              |                               |                    |                    |                              |                               | <b>\$ 2,500.00</b>           |

|                       |             |
|-----------------------|-------------|
| <b>90-Day Reserve</b> | <b>\$ -</b> |
|-----------------------|-------------|

|              |         |
|--------------|---------|
| Days reserve | #DIV/0! |
|--------------|---------|

Morse Park Trust

Morse Park Trust Revenues  
710-710-4700-710      Interest Earned-Morse Park Fd

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 113.00             |                                        |
|                    |                                        |
| 113.00             |                                        |

Morse Park Trust Expenditures

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
| -      |                                        |

Morse Park Trust Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Morse Park Trust Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Street Department

Nate Siler  
Public Works Director  
[nsiler@neoshomo.org](mailto:nsiler@neoshomo.org)

Street Maintenance – The Department coordinates or conducts a wide variety of street maintenance activities, including crack filling, seal coating, patching, striping, shouldering, signage, street lights, resurfacing, reconstruction, snow and ice control, and sidewalk repair or replacement.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 1,897,255.50        | 1,492,248.00          | 1,410,336.20               | 1,498,524.00           |
| Intergovernmental    | 65,481.50           | 24,025.00             | 44,934.06                  | 24,025.00              |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 9,965.75            | 353,425.00            | 405,080.19                 | 70,321.00              |
| Other Sources        | -                   | -                     | -                          | -                      |
| <b>Total</b>         | <b>1,972,702.75</b> | <b>1,869,698.00</b>   | <b>1,860,350.45</b>        | <b>1,592,870.00</b>    |
|                      | \$ 0.00             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 456,793.50          | 572,363.00            | 412,060.10                 | 604,135.00             |
| Supplies & Materials          | 84,225.91           | 115,175.00            | 47,162.71                  | 115,175.00             |
| Maintenance & Repair          | 51,169.23           | 62,500.00             | 58,477.63                  | 62,500.00              |
| Contractual Services          | 822,284.31          | 1,297,922.00          | 553,851.06                 | 639,584.00             |
| Utilities                     | 176,654.96          | 179,134.00            | 144,823.81                 | 193,141.00             |
| Other Expenses                | 36,416.94           | 50,480.00             | 31,978.45                  | 50,303.00              |
| Capital                       | 183,024.97          | 596,036.00            | 261,955.54                 | 229,500.00             |
| Other Uses                    | 5,660.04            | 5,660.00              | 4,245.03                   | 5,660.00               |
| Debt Service                  | 7,546.33            | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,823,776.19</b> | <b>2,879,270.00</b>   | <b>1,514,554.33</b>        | <b>1,899,998.00</b>    |
|                               | \$ 0.00             | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Professional Services** - Increase for contract work

**Member Training and Travel** - Increase for trainings

**Street Contracts** - Increase of street overlays & slurry seal

**Maintenance Material** - Increase per need

#### Decreases:

**Street Contracts** - Decrease due to need and no overlap of contract years

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Director                | 1             | 1                     | 1                     | 1                      |
| Superintendent          | 1             | 1                     | 1                     | 1                      |
| Foreman                 | 1             | 1                     | 1                     | 1                      |
| Maintenance             | 2             | 2                     | 2                     | 2                      |
| Mechanic                | 1             | 1                     | 1                     | 1                      |
| Operator                | 1             | 1                     | 1                     | 1                      |
| Laborer                 | 1             | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b> | <b>8</b>      | <b>9</b>              | <b>9</b>              | <b>9</b>               |

|                   |
|-------------------|
| Street Department |
|-------------------|

| Account                                      | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Street Department Revenues                   |                               |                        |                        |                              |                               |                              |
| 800-800-4030-800                             | Transportation Sales Tax      | 1,254,398.54           | 1,018,758.00           | 915,817.89                   | 1,221,090.52                  | 1,018,758.00                 |
| 800-800-4090-800                             | Vehicle Sales Tax             | 131,676.88             | 85,000.00              | 99,674.29                    | 132,899.05                    | 87,550.00                    |
| 800-800-4130-800                             | Sanitation Enforcement        | 12,499.08              | 15,800.00              | 8,688.08                     | 11,584.11                     | 15,800.00                    |
| 800-800-4180-800                             | Vehicle License Fees          | 58,256.88              | 54,540.00              | 41,726.03                    | 55,634.71                     | 55,085.00                    |
| 800-800-4280-800                             | Gasoline Tax                  | 440,424.12             | 318,150.00             | 344,429.91                   | 459,239.88                    | 321,331.00                   |
| 800-800-4700-800                             | Interest Earned-Street Fund   | 6,904.57               | 4,000.00               | 54,304.94                    | 72,406.59                     | 70,321.00                    |
| 800-800-4800-800                             | Street Department Misc.       | 3,061.18               | 349,425.00             | 350,775.25                   | 467,700.33                    | -                            |
| 800-800-4820-800                             | Street Sale of Property       | 37,073.17              | -                      | 12,660.00                    | 12,660.00                     | -                            |
| 833-833-4851-833                             | TDD Road Mtce Agreement       | 28,038.67              | 24,025.00              | 28,991.98                    | 28,991.98                     | 24,025.00                    |
| 800-800-4850-800                             | TDD Road Mtce Contract        | -                      | -                      | -                            | -                             | -                            |
| 833-833-4700-833                             | Interest Earned-TDD Mtce      | 369.66                 | -                      | 3,282.08                     | 3,282.08                      | -                            |
| <b>Total Street Department Revenues</b>      |                               | <b>\$ 1,972,702.75</b> | <b>\$ 1,869,698.00</b> | <b>\$ 1,860,350.45</b>       | <b>\$ 2,465,489.25</b>        | <b>\$ 1,592,870.00</b>       |
| Street Department Expenditures               |                               |                        |                        |                              |                               |                              |
| 800-800-5010-800                             | Street Salaries               | 320,577.68             | 394,769.00             | 295,778.02                   | 394,370.69                    | 415,718.00                   |
| 800-800-5020-800                             | Street Overtime               | 16,261.53              | 18,000.00              | 13,495.47                    | 17,993.96                     | 18,000.00                    |
| 800-800-5030-800                             | Street Part Time              | 5,334.38               | 12,000.00              | -                            | -                             | 12,000.00                    |
| 800-800-5070-800                             | Availability Allowance        | 1,425.00               | 1,440.00               | 1,080.00                     | 1,440.00                      | 1,440.00                     |
| 800-800-5170-800                             | Street Social Security        | 25,512.37              | 32,342.00              | 23,296.52                    | 31,062.03                     | 33,945.00                    |
| 800-800-5180-800                             | Street Retirement             | 16,730.08              | 20,539.00              | 14,508.83                    | 19,345.11                     | 25,904.00                    |
| 800-800-5190-800                             | Street Health Insurance       | 56,691.57              | 67,975.00              | 43,610.26                    | 58,147.01                     | 70,153.00                    |
| 800-800-5210-800                             | Street Workers Compensation   | 10,055.42              | 18,518.00              | 15,891.71                    | 21,188.95                     | 19,435.00                    |
| 800-800-5260-800                             | Street Professional Services  | 19,896.08              | 21,367.00              | 18,610.83                    | 24,814.44                     | 31,367.00                    |
| 800-800-5260-360                             | Street TIF Professional Srvc  | 299,896.09             | 100,000.00             | 25,138.64                    | 33,518.19                     | -                            |
| 800-800-5300-800                             | Street Insurance & Bonds      | 12,257.57              | 8,691.00               | 8,007.18                     | 10,676.24                     | 8,217.00                     |
| 800-800-5320-800                             | Street Facility Maintenance   | 4,115.97               | 10,000.00              | 4,756.12                     | 6,341.49                      | 10,000.00                    |
| 800-800-5330-800                             | Street Equipment Maintenance  | 47,053.26              | 52,500.00              | 53,721.51                    | 71,628.68                     | 52,500.00                    |
| 800-800-5360-800                             | Street Member/Training/Travel | 88.00                  | 1,540.00               | 884.64                       | 1,179.52                      | 2,300.00                     |
| 800-800-5380-800                             | Street Uniforms               | 4,117.47               | 5,240.00               | 3,514.65                     | 4,686.20                      | 5,240.00                     |
| 800-800-5530-800                             | Street Fuels/Lubricants       | 32,397.17              | 42,000.00              | 29,436.00                    | 39,248.00                     | 42,000.00                    |
| 800-800-5580-800                             | Street Maintenance Materials  | 67,542.06              | 80,000.00              | 34,789.65                    | 46,386.20                     | 80,000.00                    |
| 800-800-5590-800                             | Street General Supplies       | 3,396.95               | 3,675.00               | 1,729.73                     | 2,306.31                      | 3,675.00                     |
| 800-800-5600-800                             | Street Signs and Markings     | 13,286.90              | 31,500.00              | 10,643.33                    | 14,191.11                     | 31,500.00                    |
| 800-800-5700-800                             | Street Computers, Software    | 2,345.95               | 3,755.00               | 1,633.77                     | 2,178.36                      | 3,578.00                     |
| 800-800-5800-800                             | Street Contracts Street       | 490,234.57             | 1,167,864.00           | 502,094.41                   | 1,167,864.00                  | 600,000.00                   |
| 800-800-6340-800                             | Street Lights                 | 164,218.28             | 164,877.00             | 123,102.07                   | 164,877.00                    | 164,877.00                   |
| 800-800-6300-800                             | Street Electricity            | 5,857.74               | 6,372.00               | 14,765.80                    | 19,687.73                     | 19,700.00                    |
| 800-800-6310-800                             | Street Heating Fuels          | 2,209.42               | 2,782.00               | 2,703.40                     | 3,604.53                      | 3,000.00                     |
| 800-800-6350-800                             | Street Phones                 | 4,369.52               | 5,103.00               | 4,252.54                     | 5,670.05                      | 5,564.00                     |
| 800-800-6380-800                             | Lease Purchase Payments       | 7,836.47               | -                      | -                            | -                             | -                            |
| 800-800-6390-800                             | Street Minor Equipment        | 1,673.82               | 4,725.00               | 908.68                       | 1,211.57                      | 4,725.00                     |
| <b>Total Street Department Expenditures</b>  |                               | <b>\$ 1,635,381.32</b> | <b>\$ 2,277,574.00</b> | <b>\$ 1,248,353.76</b>       | <b>\$ 2,163,617.37</b>        | <b>\$ 1,664,838.00</b>       |
| Street Department Other Sources              |                               |                        |                        |                              |                               |                              |
|                                              | 0                             | 0                      |                        |                              | -                             | -                            |
| <b>Total Street Department Other Sources</b> |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Street Department Other Uses                 |                               |                        |                        |                              |                               |                              |
| 800-000-3216-000                             | Transfer to Airport -Land     | 5,660.04               | 5,660.00               | 4,245.03                     | 5,660.00                      | 5,660.00                     |
| 800-000-3220-000                             | Transfer to 2012A&B Fund      | 7,546.33               | -                      | -                            | -                             | -                            |
| 800-000-3285-000                             | Trns to Capital Improvement   | 175,188.50             | 596,036.00             | 261,955.54                   | 596,036.00                    | 229,500.00                   |
| <b>Total Street Department Other Uses</b>    |                               | <b>\$ 188,394.87</b>   | <b>\$ 601,696.00</b>   | <b>\$ 266,200.57</b>         | <b>\$ 601,696.00</b>          | <b>\$ 235,160.00</b>         |
| Change in Fund Balance                       |                               | 148,926.56             | (1,009,572.00)         | 345,796.12                   | (299,824.13)                  | (307,128.00)                 |



| Account                                                | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|--------------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Street Department Beginning Fund Balance"October 1"    |              | \$ 2,259,579.00  | \$ 2,408,505.56  | \$ 2,408,505.56     | \$ 2,408,505.56  | \$ 2,108,681.43  |
| Total Street Department Funding Sources                |              | \$ 4,232,281.75  | \$ 4,278,203.56  | \$ 4,268,856.01     | \$ 4,873,994.81  | \$ 3,701,551.43  |
| Total Street Department Funding Uses                   |              | \$ 1,823,776.19  | \$ 2,879,270.00  | \$ 1,514,554.33     | \$ 2,765,313.37  | \$ 1,899,998.00  |
| Street Department Beginning Fund Balance"September 30" |              | \$ 2,408,505.56  | \$ 1,398,933.56  | \$ 2,754,301.68     | \$ 2,108,681.43  | \$ 1,801,553.43  |

|                |               |
|----------------|---------------|
| 90-Day Reserve | \$ 410,508.00 |
|----------------|---------------|

|              |        |
|--------------|--------|
| Days reserve | 394.97 |
|--------------|--------|

| Street Sales Tax      |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | # | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|----------------------|---|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Siler, Nathaniel     | 1 | 66,920.10  | \$ 68,927.70       | 1,000.00              | 360                       | 5,273.00           | 4,136.00   | 7,878.72  | 3,020.00     | \$ 90,595.43               |
| Barratt, Jr. Jeffery | 1 | 58,200.74  | \$ 59,946.76       | 1,000.00              | 360                       | 4,586.00           | 3,597.00   | 7,795.00  | 2,626.00     | \$ 79,910.76               |
| Denny, Gary          | 1 | 37,852.36  | \$ 40,017.93       |                       |                           | 3,062.00           | 2,402.00   | 7,795.00  | 1,753.00     | \$ 55,029.93               |
| Barton, Randy        | 1 | 42,251.82  | \$ 45,468.42       |                       | 360                       | 3,479.00           | 2,729.00   | 7,795.00  | 1,992.00     | \$ 61,823.42               |
| Jenks, Jeffery       | 1 | 41,732.34  | \$ 44,014.31       |                       | 360                       | 3,368.00           | 2,641.00   | 7,795.00  | 1,928.00     | \$ 60,106.31               |
| Roux, Tracy          | 1 | 39,681.46  | \$ 41,571.13       |                       |                           | 3,181.00           | 2,495.00   | 7,795.00  | 1,821.00     | \$ 56,863.13               |
| Kimmel, Trenton      | 1 | 37,852.62  | \$ 40,272.03       |                       |                           | 3,081.00           | 2,417.00   | 7,795.00  | 1,764.00     | \$ 55,329.03               |
| Open                 | 1 | 34,597.68  | \$ 36,749.39       |                       |                           | 2,812.00           | 2,205.00   | 7,795.00  | 1,610.00     | \$ 51,171.39               |
| Salsman, Clinton     | 1 | 35,679.02  | \$ 36,749.39       |                       |                           | 2,812.00           | 2,205.00   | 7,795.00  | 1,610.00     | \$ 51,171.39               |
| 9.00                 |   | 394,768.14 | 413,717.07         | 2,000.00              | 1,440.00                  | 31,654.00          | 24,827.00  | 70,238.72 | 18,124.00    | \$ 562,000.80              |
| Overtime             |   | 17,993.96  | 18,000.00          |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |   | 44,560.35  | 12,000.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |   | 457,322.45 | 443,717.07         |                       |                           |                    |            |           |              |                            |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 800-800-4030-800   | Transportation Sales Tax               |
| 800-800-4090-800   | Vehicle Sales Tax                      |
| 800-800-4130-800   | Sanitation Enforcement                 |
| 800-800-4180-800   | Vehicle License Fees                   |
| 800-800-4280-800   | Gasoline Tax                           |
| 800-800-4700-800   | Interest Earned-Street Fund            |
| 833-833-4851-833   | TDD Road Mtce Agreement                |
| 800-800-4850-800   | TDD Road Mtce Contract                 |
| 1,592,870.00       |                                        |

| Amount           | Justification & Supporting Information |
|------------------|----------------------------------------|
| 800-800-5010-800 | Street Salaries                        |
| 800-800-5020-800 | Street Overtime                        |
| 800-800-5030-800 | Street Part Time                       |
| 800-800-5070-800 | Availability Allowance                 |
| 800-800-5170-800 | Street Social Security                 |
| 800-800-5180-800 | Street Retirement                      |
| 800-800-5190-800 | Street Health Insurance                |
| 800-800-5210-800 | Street Workers Compensation            |
| 800-800-5260-800 | Street Professional Services           |
| 800-800-5260-360 | Street TIF Professional Srvc           |
| 800-800-5300-800 | Street Insurance & Bonds               |
| 800-800-5320-800 | Street Facility Maintenance            |
| 800-800-5330-800 | Street Equipment Maintenance           |
| 800-800-5360-800 | Street Member/Training/Travel          |
| 800-800-5380-800 | Street Uniforms                        |
| 800-800-5530-800 | Street Fuels/Lubricants                |
| 800-800-5580-800 | Street Maintenance Materials           |
| 800-800-5590-800 | Street General Supplies                |
| 800-800-5600-800 | Street Signs and Markings              |
| 800-800-5700-800 | Street Computers, Software             |
| 800-800-5800-800 | Street Contracts Street                |
| 800-800-6340-800 | Street Lights                          |
| 800-800-6300-800 | Street Electricity                     |

Street Sales Tax Expenditures

800-800-6310-800 Street Heating Fuels  
 800-800-6350-800 Street Phones  
 800-800-6390-800 Street Minor Equipment

| Amount       | Justification & Supporting Information                         |
|--------------|----------------------------------------------------------------|
| 3,000.00     |                                                                |
| 5,564.00     |                                                                |
| 4,725.00     | Used for the purchase of tools and smaller equipment as needed |
| 1,664,838.00 |                                                                |

-

Street Sales Tax Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Street Sales Tax Other Uses

800-000-3216-000 Transfer to Airport -Land  
 800-000-3220-000 Transfer to 2012A&B Fund  
 800-000-3285-000 Trns to Capital Improvement

| Amount     | Justification & Supporting Information                                                                                                                             |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5,660.00   |                                                                                                                                                                    |
| -          | 2012 Debt Principal & Interest and Admin Fees                                                                                                                      |
| 229,500.00 | Trailer for mini excavator \$15,000 (surplus 2), snow box for skid steer \$7,000, electricity and lights in storagee barn 50% share \$7,500, ADA curbing \$200,000 |
|            |                                                                                                                                                                    |

## Street/Bridge

David Kennedy

City Manager

[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

The Citizens voted in a 1/8 of 1% tax to repay the \$3,500,000 bonds issued in 2007 for the South Street Roundabout, Howard Bush Drive, La-z-boy Parkway and improvements to State Highway 59

| Revenue Category     | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|----------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Taxes                | 418,007.58        | 339,502.00                  | 305,190.25                       | 339,502.00                   |
| Intergovernmental    | -                 | -                           | -                                | -                            |
| Licenses & Permits   | -                 | -                           | -                                | -                            |
| Charges for Services | -                 | -                           | -                                | -                            |
| Fines & Forfeitures  | -                 | -                           | -                                | -                            |
| Miscellaneous        | 2,656.30          | -                           | 21,998.13                        | 20,000.00                    |
| Other Sources        | -                 | -                           | -                                | -                            |
| <b>Total</b>         | <b>420,663.88</b> | <b>339,502.00</b>           | <b>327,188.38</b>                | <b>359,502.00</b>            |
|                      | \$ -              | \$ -                        | \$ -                             | \$ -                         |

| Expense Category              | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|-------------------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Salaries, Benefits, & Support | -                 | -                           | -                                | -                            |
| Supplies & Materials          | -                 | -                           | -                                | -                            |
| Maintenance & Repair          | -                 | -                           | -                                | -                            |
| Contractual Services          | -                 | -                           | -                                | -                            |
| Utilities                     | -                 | -                           | -                                | -                            |
| Other Expenses                | -                 | -                           | -                                | -                            |
| Capital                       | -                 | -                           | -                                | -                            |
| Other Uses                    | -                 | -                           | -                                | 1,000,000.00                 |
| Debt Service                  | 260,980.29        | 233,903.00                  | 243,475.00                       | 239,604.00                   |
| <b>Total</b>                  | <b>260,980.29</b> | <b>233,903.00</b>           | <b>243,475.00</b>                | <b>1,239,604.00</b>          |
|                               | \$ -              | \$ -                        | \$ -                             | \$ -                         |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Street Bridge Contract** - Increase for need repair Highway 59 Project

#### Decreases:

|                         | FY2023<br>Actual | FY2024<br>Adopted<br>Budget | FY2024<br>Current<br>Budget | FY2025<br>Proposed<br>Budget |
|-------------------------|------------------|-----------------------------|-----------------------------|------------------------------|
| Staffing Levels         |                  |                             |                             |                              |
| No FTEs                 |                  |                             |                             |                              |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>         | <b>0</b>                    | <b>0</b>                    | <b>0</b>                     |

Street Bridge

| Account                                                   | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Street Bridge Revenues                                    |                               |                        |                        |                              |                               |                              |
| 900-900-4030-900                                          | Street/Bridge Sales Tax       | 418,007.58             | 339,502.00             | 305,190.25                   | 406,920.33                    | 339,502.00                   |
| 900-900-4700-900                                          | Interest Earned-Street Bridge | 2,656.30               | -                      | 21,998.13                    | 29,330.84                     | 20,000.00                    |
| <b>Total Street Bridge Revenues</b>                       |                               | <b>\$ 420,663.88</b>   | <b>\$ 339,502.00</b>   | <b>\$ 327,188.38</b>         | <b>\$ 436,251.17</b>          | <b>\$ 359,502.00</b>         |
| Street Bridge Expenditures                                |                               |                        |                        |                              |                               |                              |
| 900-900-5800-900                                          | Street/Bridge Contract        |                        |                        |                              | -                             | 1,000,000.00                 |
| Street Bridge Other Uses                                  |                               |                        |                        |                              |                               |                              |
| <b>Total Street Bridge Expenditures</b>                   |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ 1,000,000.00</b>       |
| Street Bridge Other Sources                               |                               |                        |                        |                              |                               |                              |
| <b>Total Street Bridge Other Sources</b>                  |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Street Bridge Other Uses                                  |                               |                        |                        |                              |                               |                              |
| 900-000-3273-000                                          | Transfer to 2013 SpObl Bond   | -                      | -                      | -                            | -                             | -                            |
| 900-000-3221-000                                          | Transfer to 2021 Series DS    | 260,980.29             | 233,903.00             | 243,475.00                   | 243,475.00                    | 239,604.00                   |
| <b>Total Street Bridge Other Uses</b>                     |                               | <b>\$ 260,980.29</b>   | <b>\$ 233,903.00</b>   | <b>\$ 243,475.00</b>         | <b>\$ 243,475.00</b>          | <b>\$ 239,604.00</b>         |
| Change in Fund Balance                                    |                               |                        |                        |                              |                               |                              |
|                                                           |                               | 159,683.59             | 105,599.00             | 83,713.38                    | 192,776.17                    | (880,102.00)                 |
| <b>Street Bridge Beginning Fund Balance"October 1"</b>    |                               | <b>\$ 769,716.00</b>   | <b>\$ 929,399.59</b>   | <b>\$ 929,399.59</b>         | <b>\$ 929,399.59</b>          | <b>\$ 1,122,175.76</b>       |
| <b>Total Street Bridge Funding Sources</b>                |                               | <b>\$ 1,190,379.88</b> | <b>\$ 1,268,901.59</b> | <b>\$ 1,256,587.97</b>       | <b>\$ 1,365,650.76</b>        | <b>\$ 1,481,677.76</b>       |
| <b>Total Street Bridge Funding Uses</b>                   |                               | <b>\$ 260,980.29</b>   | <b>\$ 233,903.00</b>   | <b>\$ 243,475.00</b>         | <b>\$ 243,475.00</b>          | <b>\$ 1,239,604.00</b>       |
| <b>Street Bridge Beginning Fund Balance"September 30"</b> |                               | <b>\$ 929,399.59</b>   | <b>\$ 1,034,998.59</b> | <b>\$ 1,013,112.97</b>       | <b>\$ 1,122,175.76</b>        | <b>\$ 242,073.76</b>         |
| 90-Day Reserve                                            |                               |                        |                        |                              |                               |                              |
|                                                           |                               |                        |                        |                              |                               | <b>\$ 246,575.34</b>         |

**Street Bridge**

## Street Bridge Revenues

900-900-4030-900 Street/Bridge Sales Tax  
900-900-4700-900 Interest Earned-Street Bridge

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 339,502.00         |                                        |
| 20,000.00          |                                        |
|                    |                                        |
| 359,502.00         |                                        |

## Street Bridge Expenditures

900-900-5800-900 Street/Bridge Contract

| Amount       | Justification & Supporting Information |
|--------------|----------------------------------------|
| 1,000,000.00 | 59 Highway upgrade                     |
|              |                                        |
| 1,000,000.00 |                                        |

## Street Bridge Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

## Street Bridge Other Uses

900-000-3221-000 Transfer to 2021 Series DS

| Amount     | Justification & Supporting Information              |
|------------|-----------------------------------------------------|
| 239,604.00 | 2021 Debt Principal & Interest Payment & Admin Fees |
|            |                                                     |

## Police Donation

Jason Baird  
Chief of Police  
[j.baird@neoshomo.org](mailto:j.baird@neoshomo.org)

The program is limited to residents within the City limits and provides Christmas for the less fortunate children in Neosho.

| Revenue Category     | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                | -                     | -                          | -                      |
| Intergovernmental    | -                | -                     | -                          | -                      |
| Licenses & Permits   | -                | -                     | -                          | -                      |
| Charges for Services | -                | -                     | -                          | -                      |
| Fines & Forfeitures  | -                | -                     | -                          | -                      |
| Miscellaneous        | 17,476.33        | 17,090.00             | 14,568.59                  | 17,600.00              |
| Other Sources        | -                | -                     | -                          | -                      |
| <b>Total</b>         | <b>17,476.33</b> | <b>17,090.00</b>      | <b>14,568.59</b>           | <b>17,600.00</b>       |
|                      | \$ -             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                | -                     | -                          | -                      |
| Supplies & Materials          | -                | -                     | -                          | -                      |
| Maintenance & Repair          | -                | -                     | -                          | -                      |
| Contractual Services          | -                | -                     | -                          | -                      |
| Utilities                     | -                | -                     | -                          | -                      |
| Other Expenses                | 15,089.49        | 17,068.00             | 17,067.09                  | 17,500.00              |
| Capital                       | -                | -                     | -                          | -                      |
| Other Uses                    | -                | -                     | -                          | -                      |
| Debt Service                  | -                | -                     | -                          | -                      |
| <b>Total</b>                  | <b>15,089.49</b> | <b>17,068.00</b>      | <b>17,067.09</b>           | <b>17,500.00</b>       |
|                               | \$ -             | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No FTE                  |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

Police Donation

| Account                                                     | Account Name                 | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------------------|------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Police Donation Revenues                                    |                              |                     |                     |                              |                               |                              |
| 124-124-4700-124                                            | Interest Earned-Shop w/a Cop | 17.63               | 10.00               | 70.97                        | 94.63                         | 100.00                       |
| 124-124-4830-124                                            | Shop With A Cop              | 17,458.70           | 17,080.00           | 14,497.62                    | 14,497.62                     | 15,500.00                    |
| 124-120-4990-126                                            | Halloween Bash               |                     |                     |                              |                               | 2,000.00                     |
| <b>Total Police Donation Revenues</b>                       |                              | <b>\$ 17,476.33</b> | <b>\$ 17,090.00</b> | <b>\$ 14,568.59</b>          | <b>\$ 14,592.25</b>           | <b>\$ 17,600.00</b>          |
| Police Donation Expenditures                                |                              |                     |                     |                              |                               |                              |
| 124-124-6440-124                                            | Shop With A Cop Expenses     | 15,089.49           | 17,068.00           | 17,067.09                    | 17,067.09                     | 15,500.00                    |
| 124-120-6430-126                                            | Halloween Bash Expenses      |                     |                     |                              | -                             | 2,000.00                     |
| <b>Total Police Donation Expenditures</b>                   |                              | <b>\$ 15,089.49</b> | <b>\$ 17,068.00</b> | <b>\$ 17,067.09</b>          | <b>\$ 17,067.09</b>           | <b>\$ 17,500.00</b>          |
| Police Donation Other Sources                               |                              |                     |                     |                              |                               |                              |
| <b>Total Police Donation Other Sources</b>                  |                              | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Police Donation Other Uses                                  |                              |                     |                     |                              |                               |                              |
| <b>Total Police Donation Other Uses</b>                     |                              | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                      |                              | 2,386.84            | 22.00               | (2,498.50)                   | (2,474.84)                    | 100.00                       |
| <b>Police Donation Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 1,464.00</b>  | <b>\$ 3,850.84</b>  | <b>\$ 3,850.84</b>           | <b>\$ 3,850.84</b>            | <b>\$ 1,376.00</b>           |
| <b>Total Police Donation Funding Sources</b>                |                              | <b>\$ 18,940.33</b> | <b>\$ 20,940.84</b> | <b>\$ 18,419.43</b>          | <b>\$ 18,443.09</b>           | <b>\$ 18,976.00</b>          |
| <b>Total Police Donation Funding Uses</b>                   |                              | <b>\$ 15,089.49</b> | <b>\$ 17,068.00</b> | <b>\$ 17,067.09</b>          | <b>\$ 17,067.09</b>           | <b>\$ 17,500.00</b>          |
| <b>Police Donation Beginning Fund Balance"September 30"</b> |                              | <b>\$ 3,850.84</b>  | <b>\$ 3,872.84</b>  | <b>\$ 1,352.34</b>           | <b>\$ 1,376.00</b>            | <b>\$ 1,476.00</b>           |



**Police Donation**

## Police Donation Revenues

124-124-4700-124 Interest Earned-Shop w/a Cop  
124-124-4830-124 Shop With A Cop  
124-120-4990-126 Halloween Bash

| Department Request |                                                          |
|--------------------|----------------------------------------------------------|
| Amount             | Justification & Supporting Information                   |
| 100.00             |                                                          |
| 15,500.00          |                                                          |
| 2,000.00           | estimated to receive \$2,000 in donations and expens all |
|                    |                                                          |
| 17,600.00          |                                                          |

## Police Donation Expenditures

124-124-6440-124 Shop With A Cop Expenses  
124-120-6430-126 Halloween Bash Expenses

| Amount    | Justification & Supporting Information |
|-----------|----------------------------------------|
| 15,500.00 |                                        |
| 2,000.00  |                                        |
|           |                                        |
| 17,500.00 |                                        |

## Police Donation Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

## Police Donation Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

|             |
|-------------|
| 2012 Series |
|-------------|

| Account                                                 | FY2023<br>Actual    | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|---------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2012 Series Revenues                                    |                     |                  |                              |                               |                              |
| 212-212-4700-212                                        | -                   | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Revenues</b>                       | <b>\$ -</b>         | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2012 Series Expenditures                                |                     |                  |                              |                               |                              |
| 212-212-5910-212                                        | 1,406.26            | -                | -                            | -                             | -                            |
| 212-212-5920-212                                        | 45.70               | -                | -                            | -                             | -                            |
| 212-212-5930-212                                        | 99.17               | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Expenditures</b>                   | <b>\$ 1,551.13</b>  | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2012 Series Other Sources                               |                     |                  |                              |                               |                              |
| 212-000-3320-000                                        | (52.12)             | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Other Sources</b>                  | <b>\$ (52.12)</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2012 Series Other Uses                                  |                     |                  |                              |                               |                              |
| 212-000-3314-000                                        | 38,128.24           | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Other Uses</b>                     | <b>\$ 38,128.24</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  | (39,731.49)         | -                | -                            | -                             | -                            |
| <b>2012 Series Beginning Fund Balance"October 1"</b>    | <b>\$ 39,731.00</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2012 Series Funding Sources</b>                | <b>\$ 39,678.88</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2012 Series Funding Uses</b>                   | <b>\$ 39,678.88</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>2012 Series Beginning Fund Balance"September 30"</b> | <b>\$ -</b>         | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |

|             |
|-------------|
| 2013 Series |
|-------------|

| Account                                                 | FY2023<br>Actual      | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|-----------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2013 Series Revenues                                    |                       |                  |                              |                               |                              |
| 213-213-4700-213                                        | -                     | -                | -                            | -                             | -                            |
|                                                         | -                     | -                | -                            |                               |                              |
| <b>Total 2013 Series Revenues</b>                       | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2013 Series Expenditures                                |                       |                  |                              |                               |                              |
| 213-213-5910-213                                        | -                     | -                | -                            | -                             | -                            |
| 213-213-5920-213                                        | -                     | -                | -                            | -                             | -                            |
| 213-213-5940-213                                        | -                     | -                | -                            | -                             | -                            |
| <b>Total 2013 Series Expenditures</b>                   | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2013 Series Other Sources                               |                       |                  |                              |                               |                              |
| 213-000-3373-000                                        | -                     | -                | -                            | -                             | -                            |
| 213-200-0331-400                                        | (11,582.08)           | -                | -                            | -                             | -                            |
| <b>Total 2013 Series Other Sources</b>                  | <b>\$ (11,582.08)</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2013 Series Other Uses                                  |                       |                  |                              |                               |                              |
|                                                         | -                     | -                | -                            | -                             | -                            |
| <b>Total 2013 Series Other Uses</b>                     | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  | (11,582.08)           | -                | -                            | -                             | -                            |
| <b>2013 Series Beginning Fund Balance"October 1"</b>    | <b>\$ 11,582.08</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2013 Series Funding Sources</b>                | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2013 Series Funding Uses</b>                   | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>2013 Series Beginning Fund Balance"September 30"</b> | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |

2014 Series

| Account                                                 | Account Name                   | FY2023<br>Actual   | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|--------------------------------|--------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2014 Series Revenues                                    |                                |                    |                  |                              |                               |                              |
| 214-214-4700-214                                        | Interest Income                | -                  | -                | -                            | -                             | -                            |
|                                                         | Proceeds from refunding        | -                  | -                | -                            |                               |                              |
| <b>Total 2014 Series Revenues</b>                       |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2014 Series Expenditures                                |                                |                    |                  |                              |                               |                              |
| 214-214-5910-214                                        | 2014 Series Principal Payment  | -                  | -                | -                            | -                             | -                            |
| 214-214-5920-214                                        | 2014 Series Interest Payment   | -                  | -                | -                            | -                             | -                            |
| 214-214-5940-214                                        | 2014 Series Admin Fees         | -                  | -                | -                            | -                             | -                            |
| <b>Total 2014 Series Expenditures</b>                   |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2014 Series Other Sources                               |                                |                    |                  |                              |                               |                              |
| 214-000-3314-000                                        | Transfer from Other Funds      | (150.42)           | -                | -                            | -                             | -                            |
| 214-000-3320-000                                        | Transfer to                    | -                  | -                | -                            | -                             | -                            |
| <b>Total 2014 Series Other Sources</b>                  |                                | <b>\$ (150.42)</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2014 Series Other Uses                                  |                                |                    |                  |                              |                               |                              |
| New                                                     | Transfer to 2021 Series SPcObl |                    |                  |                              | -                             | -                            |
| <b>Total 2014 Series Other Uses</b>                     |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                                | (150.42)           | -                | -                            | -                             | -                            |
| <b>2014 Series Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 150.42</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2014 Series Funding Sources</b>                |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2014 Series Funding Uses</b>                   |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>2014 Series Beginning Fund Balance"September 30"</b> |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |

|             |
|-------------|
| 2016 Series |
|-------------|

| Account                                                 | Account Name                 | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| 2016 Series Revenues                                    |                              |                      |                      |                              |                               |                              |
| 216-216-4700-216                                        | Interest Income              | 12,060.59            | -                    | -                            | -                             | -                            |
| <b>Total 2016 Series Revenues</b>                       |                              | <b>\$ 12,060.59</b>  | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2016 Series Expenditures                                |                              |                      |                      |                              |                               |                              |
| 216-216-5910-216                                        | Principal Paid 2016 COP      | 190,000.00           | 190,000.00           | 190,000.00                   | 190,000.00                    | 190,000.00                   |
| 216-216-5920-216                                        | Interest Expense 2016 Series | 57,200.00            | 57,200.00            | 43,075.55                    | 57,200.00                     | 51,500.00                    |
| 216-216-5940-216                                        | 2016 Series Admin Fees       | 1,250.00             | 4,750.00             | 625.00                       | 4,750.00                      | 4,750.00                     |
| <b>Total 2016 Series Expenditures</b>                   |                              | <b>\$ 248,450.00</b> | <b>\$ 251,950.00</b> | <b>\$ 233,700.55</b>         | <b>\$ 251,950.00</b>          | <b>\$ 246,250.00</b>         |
| 2016 Series Other Sources                               |                              |                      |                      |                              |                               |                              |
| 216-000-3376-000                                        | Transfer in from Other Funds | 247,087.95           | 251,950.00           | 233,075.55                   | 251,950.00                    | 241,738.00                   |
| <b>Total 2016 Series Other Sources</b>                  |                              | <b>\$ 247,087.95</b> | <b>\$ 251,950.00</b> | <b>\$ 233,075.55</b>         | <b>\$ 251,950.00</b>          | <b>\$ 241,738.00</b>         |
| 2016 Series Other Uses                                  |                              |                      |                      |                              |                               |                              |
| <b>Total 2016 Series Other Uses</b>                     |                              | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                              | 10,698.54            | -                    | (625.00)                     | -                             | (4,512.00)                   |
| <b>2016 Series Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 303,677.00</b> | <b>\$ 314,375.54</b> | <b>\$ 314,375.54</b>         | <b>\$ 314,375.54</b>          | <b>\$ 314,375.54</b>         |
| <b>Total 2016 Series Funding Sources</b>                |                              | <b>\$ 562,825.54</b> | <b>\$ 566,325.54</b> | <b>\$ 547,451.09</b>         | <b>\$ 566,325.54</b>          | <b>\$ 556,113.54</b>         |
| <b>Total 2016 Series Funding Uses</b>                   |                              | <b>\$ 248,450.00</b> | <b>\$ 251,950.00</b> | <b>\$ 233,700.55</b>         | <b>\$ 251,950.00</b>          | <b>\$ 246,250.00</b>         |
| <b>2016 Series Beginning Fund Balance"September 30"</b> |                              | <b>\$ 314,375.54</b> | <b>\$ 314,375.54</b> | <b>\$ 313,750.54</b>         | <b>\$ 314,375.54</b>          | <b>\$ 309,863.54</b>         |

2021 Series

| Account                                                 | Account Name                 | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| 2021 Series Revenues                                    |                              |                      |                      |                              |                               |                              |
| 221-221-4700-221                                        | Interest Earned 2021 Series  | 8.51                 | -                    | 45.41                        |                               | -                            |
| 221-221-4750-221                                        |                              | -                    | -                    | -                            |                               | -                            |
| <b>Total 2021 Series Revenues</b>                       |                              | <b>\$ 8.51</b>       | <b>\$ -</b>          | <b>\$ 45.41</b>              | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2021 Series Expenditures                                |                              |                      |                      |                              |                               |                              |
| 221-221-5910-221                                        | 2021 Series Principal        | 455,000.00           | 455,000.00           | 470,000.00                   | 455,000.00                    | 470,000.00                   |
| 221-221-5920-221                                        | 2021 Series Interest         | 38,450.00            | 43,001.00            | 16,950.00                    | 43,001.00                     | 33,901.00                    |
| 221-221-5940-221                                        | 2021 Series Admin Fees       | 318.00               | 2,500.00             | 636.00                       | 2,500.00                      | 2,500.00                     |
| 221-221-5950-221                                        | 2021 Series Cost of Issuance | -                    | -                    | -                            | -                             |                              |
| <b>Total 2021 Series Expenditures</b>                   |                              | <b>\$ 493,768.00</b> | <b>\$ 500,501.00</b> | <b>\$ 487,586.00</b>         | <b>\$ 500,501.00</b>          | <b>\$ 506,401.00</b>         |
| 2021 Series Other Sources                               |                              |                      |                      |                              |                               |                              |
| 221-000-3320-000                                        | Transfer to 2021 Series DS   | 493,450.00           | -                    | 486,950.00                   | -                             | 507,002.00                   |
| 221-000-3321-000                                        | Transfer in 2021 Series DS   | -                    | 501,302.00           | -                            | 501,302.00                    | -                            |
| <b>Total 2021 Series Other Sources</b>                  |                              | <b>\$ 493,450.00</b> | <b>\$ 501,302.00</b> | <b>\$ 486,950.00</b>         | <b>\$ 501,302.00</b>          | <b>\$ 884,400.00</b>         |
| 2021 Series Other Uses                                  |                              |                      |                      |                              |                               |                              |
|                                                         |                              | -                    | -                    | -                            | -                             | -                            |
| <b>Total 2021 Series Other Uses</b>                     |                              | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                              | (309.49)             | 801.00               | (590.59)                     | 801.00                        | 377,999.00                   |
| <b>2021 Series Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 2,626.00</b>   | <b>\$ 2,316.51</b>   | <b>\$ 2,316.51</b>           | <b>\$ 2,316.51</b>            | <b>\$ 3,117.51</b>           |
| <b>Total 2021 Series Funding Sources</b>                |                              | <b>\$ 496,084.51</b> | <b>\$ 503,618.51</b> | <b>\$ 489,311.92</b>         | <b>\$ 503,618.51</b>          | <b>\$ 887,517.51</b>         |
| <b>Total 2021 Series Funding Uses</b>                   |                              | <b>\$ 493,768.00</b> | <b>\$ 500,501.00</b> | <b>\$ 487,586.00</b>         | <b>\$ 500,501.00</b>          | <b>\$ 506,401.00</b>         |
| <b>2021 Series Beginning Fund Balance"September 30"</b> |                              | <b>\$ 2,316.51</b>   | <b>\$ 3,117.51</b>   | <b>\$ 1,725.92</b>           | <b>\$ 3,117.51</b>            | <b>\$ 381,116.51</b>         |

## Employee Health Insurance

Krysti Muhic  
Human Resource Director  
[Kmuhic@neoshomo.org](mailto:Kmuhic@neoshomo.org)

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | 906,004.54        | 994,948.00            | 699,041.87                 | 1,112,018.00           |
| Other Sources        | -                 | -                     | -                          | -                      |
|                      | -                 | -                     | -                          | -                      |
| <b>Total</b>         | <b>906,004.54</b> | <b>994,948.00</b>     | <b>699,041.87</b>          | <b>1,112,018.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                 | -                     | -                          | -                      |
| Supplies & Materials          | -                 | -                     | -                          | -                      |
| Maintenance & Repair          | -                 | -                     | -                          | -                      |
| Contractual Services          | -                 | -                     | -                          | -                      |
| Utilities                     | -                 | -                     | -                          | -                      |
| Other Expenses                | 912,709.82        | 1,019,017.00          | 671,915.14                 | 1,111,918.00           |
| Capital                       | -                 | -                     | -                          | -                      |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>912,709.82</b> | <b>1,019,017.00</b>   | <b>671,915.14</b>          | <b>1,111,918.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No FTE                  |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

Health Insurance Fund

| Account                                                           | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------------------------|--------------------------------|----------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Health Insurance Fund Revenues                                    |                                |                      |                        |                              |                               |                              |
| 290-290-4700-290                                                  | Interest Earned-Employee Ins.  | 64.56                | 100.00                 | 12.03                        | 16.04                         | 100.00                       |
| 290-290-4950-290                                                  | City's Portion - Insur.        | 764,692.36           | 836,848.00             | 550,555.14                   | 820,805.00                    | 921,918.00                   |
| 290-290-4951-290                                                  | City Portion for Ins Shortage  | -                    | -                      | -                            | -                             | -                            |
| 290-290-4960-290                                                  | Employee Portion-Insurance     | 141,247.62           | 158,000.00             | 148,474.70                   | 197,966.27                    | 190,000.00                   |
| <b>Total Health Insurance Fund Revenues</b>                       |                                | <b>\$ 906,004.54</b> | <b>\$ 994,948.00</b>   | <b>\$ 699,041.87</b>         | <b>\$ 1,018,787.31</b>        | <b>\$ 1,112,018.00</b>       |
| Health Insurance Fund Expenditures                                |                                |                      |                        |                              |                               |                              |
| 290-290-6140-290                                                  | Health Insurance Fees Employee | 768,432.86           | 861,017.00             | 542,009.93                   | 722,679.91                    | 921,918.00                   |
| 290-290-6150-290                                                  | Health Insurance Fees Dependnt | 144,276.96           | 158,000.00             | 98,149.48                    | 130,865.97                    | 150,000.00                   |
| 290-291-6120-290                                                  | Dental Insurance -Employee     | -                    | -                      | 20,132.32                    | 26,843.09                     | 27,000.00                    |
| 290-291-6130-290                                                  | Dental Insurance Dependent     | -                    | -                      | 9,732.16                     | 12,976.21                     | 13,000.00                    |
| 290-291-6130-291                                                  | Life Insurance Employee        | -                    | -                      | 1,891.25                     | 2,521.67                      | -                            |
| <b>Total Health Insurance Fund Expenditures</b>                   |                                | <b>\$ 912,709.82</b> | <b>\$ 1,019,017.00</b> | <b>\$ 671,915.14</b>         | <b>\$ 895,886.85</b>          | <b>\$ 1,111,918.00</b>       |
| Health Insurance Fund Other Sources                               |                                |                      |                        |                              |                               |                              |
| 290-000-3390-000                                                  | Transfer In                    | -                    | -                      | -                            | -                             | -                            |
| <b>Total Health Insurance Fund Other Sources</b>                  |                                | <b>\$ -</b>          | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Health Insurance Fund Other Uses                                  |                                |                      |                        |                              |                               |                              |
| <b>Total Health Insurance Fund Other Uses</b>                     |                                | <b>\$ -</b>          | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                            |                                | (6,705.28)           | (24,069.00)            | 27,126.73                    | 122,900.45                    | 100.00                       |
| <b>Health Insurance Fund Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 33,350.00</b>  | <b>\$ 26,644.72</b>    | <b>\$ 26,644.72</b>          | <b>\$ 26,644.72</b>           | <b>\$ 149,545.17</b>         |
| <b>Total Health Insurance Fund Funding Sources</b>                |                                | <b>\$ 939,354.54</b> | <b>\$ 1,021,592.72</b> | <b>\$ 725,686.59</b>         | <b>\$ 1,045,432.03</b>        | <b>\$ 1,261,563.17</b>       |
| <b>Total Health Insurance Fund Funding Uses</b>                   |                                | <b>\$ 912,709.82</b> | <b>\$ 1,019,017.00</b> | <b>\$ 671,915.14</b>         | <b>\$ 895,886.85</b>          | <b>\$ 1,111,918.00</b>       |
| <b>Health Insurance Fund Beginning Fund Balance"September 30"</b> |                                | <b>\$ 26,644.72</b>  | <b>\$ 2,575.72</b>     | <b>\$ 53,771.45</b>          | <b>\$ 149,545.17</b>          | <b>\$ 149,645.17</b>         |
|                                                                   |                                | <b>\$ (2.28)</b>     |                        |                              |                               |                              |

90-Day Reserve

Days reserve

#DIV/0!



| Health Insurance Fund |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | -        |
| Retirement Rate       | -        |

Health Insurance Fund Revenues

|                  |                               |
|------------------|-------------------------------|
| 290-290-4700-290 | Interest Earned-Employee Ins. |
| 290-290-4950-290 | City's Portion - Insur.       |
| 290-290-4951-290 | City Portion for Ins Shortage |
| 290-290-4960-290 | Employee Portion-Insurance    |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 100.00             |                                        |
| 921,918.00         |                                        |
|                    |                                        |
| 190,000.00         |                                        |
|                    |                                        |
|                    |                                        |
| 1,112,018.00       |                                        |

Health Insurance Fund Expenditures

|                  |                                |
|------------------|--------------------------------|
| 290-290-6140-290 | Health Insurance Fees Employee |
| 290-290-6150-290 | Health Insurance Fees Dependnt |
| 290-291-6120-290 | Dental Insurance -Employee     |
| 290-291-6130-290 | Dental Insurance Dependent     |

| Amount       | Justification & Supporting Information |
|--------------|----------------------------------------|
| 921,918.00   |                                        |
| 150,000.00   |                                        |
| 27,000.00    |                                        |
| 13,000.00    |                                        |
|              |                                        |
| 1,111,918.00 |                                        |

Health Insurance Fund Other Sources

|                  |             |
|------------------|-------------|
| 290-000-3390-000 | Transfer In |
|------------------|-------------|

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Health Insurance Fund Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Water Admin

Leslie Forest  
 Director of Finance  
[lforest@neoshomo.org](mailto:lforest@neoshomo.org)

Water Admin/Finance is responsible for the oversight of all fiscal activities and safeguarding of City funds. The department provides a variety of financial services to Council, staff, and citizens. Services include accounting and financial reporting, budgeting, payroll, accounts payable, billing, licensing, and special financial analysis.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                   | -                     | -                          | -                      |
| Intergovernmental    | 95,803.43           | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 3,118,342.27        | 3,938,821.00          | 2,761,055.98               | 4,653,979.00           |
| Fines & Forefeitures | -                   | -                     | -                          | -                      |
| Miscellaneous        | 42,871.95           | 26,000.00             | 148,888.56                 | 195,475.00             |
| Other Sources        | -                   | -                     | -                          | -                      |
| <b>Total</b>         | <b>3,257,017.65</b> | <b>3,964,821.00</b>   | <b>2,909,944.54</b>        | <b>4,849,454.00</b>    |
|                      | \$ 0.00             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 416,906.91          | 429,489.00            | 324,533.98                 | 442,167.00             |
| Supplies & Materials          | 40,777.52           | 58,140.00             | 39,449.76                  | 64,952.00              |
| Maintenance & Repair          | 477.98              | 1,000.00              | 457.13                     | 1,000.00               |
| Contractual Services          | 716,993.98          | 686,839.00            | 525,931.62                 | 722,590.00             |
| Utilities                     | 4,800.00            | 5,040.00              | 3,252.85                   | 5,435.00               |
| Other Expenses                | 1,898.17            | 2,916.00              | 1,226.36                   | 3,427.00               |
| Capital                       | -                   | 5,000.00              | -                          | 5,000.00               |
| Other Uses                    | -                   | -                     | -                          | -                      |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,181,854.56</b> | <b>1,188,424.00</b>   | <b>894,851.70</b>          | <b>1,244,571.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Customer Billings**- Increase for rates

**Computer Software** -Increase for server license upgrade

#### Decreases:

| Staffing Levels                  | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|----------------------------------|---------------|-----------------------|-----------------------|------------------------|
| Finance Director                 | 1             | 1                     | 1                     | 1                      |
| Water Admin Supervisor/Licensing | 1             | 1                     | 1                     | 1                      |
| AP/PR Specialist                 | 1             | 1                     | 1                     | 1                      |
| Billing Analyst                  | 1             | 1                     | 1                     | 1                      |
| Collections Clerk                | 2.5           | 2.5                   | 2.5                   | 2.5                    |
| <b>DEPARTMENT TOTAL</b>          | <b>6.5</b>    | <b>6.5</b>            | <b>6.5</b>            | <b>6.5</b>             |

| Account                                                 | Account Name                | FY2023<br>Actual        | FY2024<br>Budget        | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|-----------------------------|-------------------------|-------------------------|------------------------------|-------------------------------|------------------------------|
| Water Admin Revenues                                    |                             |                         |                         |                              |                               |                              |
| 500-510-3510-510                                        | Penalties/Utility Bills     | 104,932.38              | 107,000.00              | 88,628.72                    | 118,171.63                    | 107,000.00                   |
| 500-510-3530-510                                        | Residential Trash Billing   | 619,412.46              | 574,560.00              | 487,797.32                   | 650,396.43                    | 606,240.00                   |
| 500-510-3540-510                                        | Service Application Fee     | 7,825.00                | 8,300.00                | 4,770.00                     | 6,360.00                      | 8,300.00                     |
| 500-510-3560-510                                        | Lease Pmt. Tower Space      | 55,292.90               | 50,780.00               | 45,123.03                    | 50,780.00                     | 50,780.00                    |
| 500-510-3580-510                                        | Trash Tag Sales             | -                       | -                       | -                            | -                             | -                            |
| 500-510-3600-510                                        | Billing Customers-Water     | 2,330,879.53            | 3,198,181.00            | 2,134,736.91                 | 2,846,315.88                  | 3,881,659.00                 |
| 500-510-4201-510                                        | CARES Act                   | 95,803.43               | -                       | -                            | -                             | -                            |
| 500-510-4700-510                                        | Interest Earned-Water/WW    | 34,043.46               | 15,000.00               | 141,120.43                   | 188,160.57                    | 184,475.00                   |
| 500-510-4792-510                                        | Online Surcharge Fees       | 6,879.42                | 11,000.00               | 6,214.79                     | 11,000.00                     | 11,000.00                    |
| 500-510-4800-510                                        | Water Admin Miscellaneous   | 1,949.07                | -                       | 1,553.34                     | 2,071.12                      | -                            |
| <b>Total Water Admin Revenues</b>                       |                             | <b>\$ 3,257,017.65</b>  | <b>\$ 3,964,821.00</b>  | <b>\$ 2,909,944.54</b>       | <b>\$ 3,873,255.63</b>        | <b>\$ 4,849,454.00</b>       |
| Water Admin Expenditures                                |                             |                         |                         |                              |                               |                              |
| 500-510-5010-510                                        | Water Admin Salaries        | 284,322.64              | 315,399.00              | 239,136.89                   | 318,849.19                    | 321,965.00                   |
| 500-510-5020-510                                        | Water Admin Overtime        | 2,957.79                | 3,000.00                | 1,287.38                     | 1,716.51                      | 3,000.00                     |
| 500-510-5170-510                                        | Water Admin Social Security | 20,573.09               | 24,128.00               | 17,359.91                    | 23,146.55                     | 24,631.00                    |
| 500-510-5180-510                                        | Water Admin Retirement      | 14,918.63               | 15,770.00               | 11,971.64                    | 15,962.19                     | 19,318.00                    |
| 500-510-5190-510                                        | Water Admin Health Insuran  | 45,447.01               | 49,093.00               | 35,666.58                    | 47,555.44                     | 50,666.00                    |
| 500-510-5210-510                                        | Water Admin Workers Comp    | 44,216.95               | 13,815.00               | 13,295.30                    | 17,727.07                     | 14,103.00                    |
| 500-510-5260-510                                        | Water Admin Prof. Services  | 77,678.39               | 97,407.00               | 69,957.37                    | 93,276.49                     | 103,062.00                   |
| 500-510-5270-510                                        | Water Admin Credit Card Fe  | 57,084.43               | 41,000.00               | 47,799.54                    | 63,732.72                     | 41,000.00                    |
| 500-510-5273-510                                        | Collection Agency Charges   | 631.94                  | 2,000.00                | 451.66                       | 602.21                        | 2,000.00                     |
| 500-510-5300-510                                        | Water Admin Insurance & B   | -                       | 600.00                  | 100.00                       | 133.33                        | 600.00                       |
| 500-510-5330-510                                        | Water Admin Equipment Ma    | 477.98                  | 1,000.00                | 457.13                       | 609.51                        | 1,000.00                     |
| 500-510-5360-510                                        | Water Admin Member/Train    | 4,470.80                | 8,284.00                | 5,816.28                     | 7,755.04                      | 8,484.00                     |
| 500-510-5590-510                                        | Water Admin General Suppli  | 40,777.52               | 58,140.00               | 39,449.76                    | 52,599.68                     | 64,952.00                    |
| 500-510-5700-510                                        | Water Admin Comp., Softwa   | 1,898.17                | 2,916.00                | 1,226.36                     | 1,635.15                      | 3,427.00                     |
| 500-510-6260-510                                        | Trash Service Paid          | 581,599.22              | 545,832.00              | 407,623.05                   | 617,876.61                    | 575,928.00                   |
| 500-510-6350-510                                        | Water Admin Phones          | 4,800.00                | 5,040.00                | 3,252.85                     | 4,337.13                      | 5,435.00                     |
| 500-510-5790-510                                        | Water Admin Capital Purcha  | -                       | 5,000.00                | -                            | -                             | 5,000.00                     |
| <b>Total Water Admin Expenditures</b>                   |                             | <b>\$ 1,181,854.56</b>  | <b>\$ 1,188,424.00</b>  | <b>\$ 894,851.70</b>         | <b>\$ 1,267,514.81</b>        | <b>\$ 1,244,571.00</b>       |
| Water Admin Other Sources                               |                             |                         |                         |                              |                               |                              |
| <b>Total Water Admin Other Sources</b>                  |                             | <b>\$ -</b>             | <b>\$ -</b>             | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Water Admin Other Uses                                  |                             |                         |                         |                              |                               |                              |
| <b>Total Water Admin Other Uses</b>                     |                             | <b>\$ -</b>             | <b>\$ -</b>             | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                             |                         |                         |                              |                               |                              |
| Change in Fund Balance                                  |                             | 767,175.43              | 934,569.31              | 1,186,998.11                 | 737,618.70                    | (288,477.00)                 |
| <b>Water Admin Beginning Fund Balance"October 1"</b>    |                             | <b>\$ 6,735,139.00</b>  | <b>\$ 6,781,630.00</b>  | <b>\$ 6,781,630.00</b>       | <b>\$ 6,781,630.00</b>        | <b>\$ 6,764,848.70</b>       |
| <b>Total Water Admin Funding Sources</b>                |                             | <b>\$ 13,589,652.25</b> | <b>\$ 17,097,723.00</b> | <b>\$ 13,548,810.02</b>      | <b>\$ 16,435,761.12</b>       | <b>\$ 18,948,187.70</b>      |
| <b>Total Water Admin Funding Uses</b>                   |                             | <b>\$ 6,808,022.25</b>  | <b>\$ 10,135,923.69</b> | <b>\$ 6,167,781.91</b>       | <b>\$ 9,670,912.42</b>        | <b>\$ 13,272,916.00</b>      |
| <b>Water Admin Beginning Fund Balance"September 30"</b> |                             | <b>\$ 6,781,630.00</b>  | <b>\$ 6,961,799.31</b>  | <b>\$ 7,381,028.11</b>       | <b>\$ 6,764,848.70</b>        | <b>\$ 5,675,271.70</b>       |
| Water Replacement Reserve City Code Section 710.180     |                             |                         |                         |                              |                               |                              |
| Water Replacement Reserve City Code Section 710.180     |                             | 1,111,878.64            | 1,111,878.64            | 1,572,171.19                 | 1,379,953.22                  | 944,827.22                   |
| WW Replacement Reserve Ordinance No. 383-2009           |                             |                         |                         |                              |                               |                              |
| WW Replacement Reserve Ordinance No. 383-2009           |                             | 728,894.64              | 728,894.64              | 708,605.57                   | 642,254.68                    | 232,207.68                   |
| WW Reserve - Slip Line                                  |                             |                         |                         |                              |                               |                              |
| WW Reserve - Slip Line                                  |                             | 10,924.75               | 10,924.75               | 123,424.75                   | 160,924.75                    | 310,924.75                   |
| Meter Replacement Reserve                               |                             |                         |                         |                              |                               |                              |
| Meter Replacement Reserve                               |                             | 429,304.24              | 429,304.24              | 371,818.59                   | 283,247.03                    | 337,532.03                   |
| Main Replacement Reserve                                |                             |                         |                         |                              |                               |                              |
| Main Replacement Reserve                                |                             | 749,992.00              | 749,992.00              | 884,124.10                   | 836,623.10                    | 976,623.10                   |

Water Admin

| Account                                       | Account Name | FY2023<br>Actual | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------|--------------|------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2009B Restricted Funds Ordinance No. 421-2009 |              | 292,600.00       | 317,240.00       | 317,240.00                   | 317,240.00                    | 334,510.00                   |
| 2011 Restricted Funds Ordinance No. 489-2011  |              | 474,000.00       | 512,600.00       | 512,600.00                   | 512,600.00                    | 546,700.00                   |
| Total Restricted Funds                        |              | 3,797,594.27     | 3,860,834.27     | 4,489,984.20                 | 4,132,842.78                  | 3,683,324.78                 |
| Unrestricted Funds                            |              | 2,984,035.73     | 3,100,965.04     | 2,891,043.91                 | 2,632,005.92                  | 1,991,946.92                 |

-----  
90-Day Reserve

\$ 2,275,528.68

6,781,630.00  
-  
78.784  
283,581.77

| Water Administration  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work Comp | Total Salary &<br>Benefits |
|----------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|-----------|----------------------------|
| Forest, Leslie L.    | 1    | 80,250.04  | \$ 79,657.54       | \$ 3,000.00           |                           | 6,094.00           | 4,780.00   | 7,795.00  | 3,490.00  | \$ 104,816.54              |
| Scott Megan D        | 1    | 49,178.74  | \$ 50,654.10       |                       |                           | 3,876.00           | 3,040.00   | 7,878.72  | 2,219.00  | \$ 67,667.83               |
| Johnson Renee        | 1    | 46,280.26  | \$ 48,505.21       |                       |                           | 3,711.00           | 2,911.00   | 7,795.00  | 2,125.00  | \$ 65,047.21               |
| Mendenhall Billie M. | 1    | 43,503.98  | \$ 44,809.10       |                       |                           | 3,428.00           | 2,689.00   | 7,795.00  | 1,963.00  | \$ 60,684.10               |
| Bloch, Tina M        | 1    | 34,990.54  | \$ 38,039.14       |                       |                           | 2,910.00           | 2,283.00   | 7,795.00  | 1,667.00  | \$ 52,694.14               |
| Open                 | 1    | 41,243.28  | \$ 35,142.28       |                       |                           | 2,689.00           | 2,109.00   | 7,795.00  | 1,540.00  | \$ 49,275.28               |
| Tomlinson, Nancy     | 0.5  | 21,511.62  | \$ 22,156.97       |                       |                           | 1,696.00           | 1,330.00   | 3,898.00  | 971.00    | \$ 30,051.97               |
|                      | 6.50 | 316,958.46 | 318,964.34         | 3,000.00              | -                         | 24,404.00          | 19,142.00  | 50,751.72 | 13,975.00 | \$ 430,237.07              |
| Overtime             |      | 1,716.51   | 3,000.00           |                       |                           |                    |            |           |           |                            |
| Part Time & Seasonal |      |            |                    |                       |                           |                    |            |           |           |                            |
| Total Salaries       |      | 318,674.97 | 321,964.34         |                       |                           |                    |            |           |           |                            |

|                               |                           | Department Request |                                        |
|-------------------------------|---------------------------|--------------------|----------------------------------------|
|                               |                           | Amount             | Justification & Supporting Information |
| Water Administration Revenues |                           |                    |                                        |
| 500-510-3510-510              | Penalties/Utility Bills   | 107,000.00         |                                        |
| 500-510-3530-510              | Residential Trash Billing | 606,240.00         | 4000 Accounts @ \$11.97                |
| 500-510-3540-510              | Service Application Fee   | 8,300.00           | 5 Year Historical Data                 |
| 500-510-3560-510              | Lease Pmt. Tower Space    | 50,780.00          |                                        |
| 500-510-3600-510              | Billing Customers-Water   |                    |                                        |
|                               |                           | 3,881,659.00       | 10 months of revenue new rates         |
| 500-510-4700-510              | Interest Earned-Water/WW  | 184,475.00         | 5 Year Historical Data                 |
| 500-510-4792-510              | Online Surcharge Fees     | 11,000.00          | 5 Year Historical Data                 |
|                               |                           |                    |                                        |
|                               |                           | 4,849,454.00       |                                        |

|                                   |                               | Amount       | Justification & Supporting Information                                                                                                                                                                                      |
|-----------------------------------|-------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Administration Expenditures |                               |              |                                                                                                                                                                                                                             |
| 500-510-5010-510                  | Water Admin Salaries          | 321,965.00   | License clerk 100% to Water Admin                                                                                                                                                                                           |
| 500-510-5020-510                  | Water Admin Overtime          | 3,000.00     |                                                                                                                                                                                                                             |
| 500-510-5170-510                  | Water Admin Social Security   | 24,631.00    |                                                                                                                                                                                                                             |
| 500-510-5180-510                  | Water Admin Retirement        | 19,318.00    |                                                                                                                                                                                                                             |
| 500-510-5190-510                  | Water Admin Health Insurance  | 50,666.00    |                                                                                                                                                                                                                             |
| 500-510-5210-510                  | Water Admin Workers Comp.     | 14,103.00    |                                                                                                                                                                                                                             |
| 500-510-5260-510                  | Water Admin Prof. Services    |              |                                                                                                                                                                                                                             |
|                                   |                               | 103,062.00   | Audit \$17500, Folder Stuffer Lease \$3000, Laserfiche \$300, Springbrook \$35155, Copier Mtce \$3000, Stronghold \$29,000, AdComp kiosk \$9,147, AdComp Ecommerce fee \$960                                                |
| 500-510-5270-510                  | Water Admin Credit Card Fees  | 41,000.00    | Historical w/ CPI adj                                                                                                                                                                                                       |
| 500-510-5273-510                  | Collection Agency Charges     | 2,000.00     | Historical -Dependent on Collections                                                                                                                                                                                        |
| 500-510-5300-510                  | Water Admin Insurance & Bonds | 600.00       | bonds only                                                                                                                                                                                                                  |
| 500-510-5330-510                  | Water Admin Equipment Maint.  | 1,000.00     |                                                                                                                                                                                                                             |
| 500-510-5360-510                  | Water Admin Member/Train/Trvl |              |                                                                                                                                                                                                                             |
|                                   |                               | 8,484.00     | conference \$800, AGA seminar/conference/CPE \$600, GFOA National \$2,200, MOCCFOA \$15, Staff training \$500, Updated GAAFR literature \$750, CPFO trainings/testing \$1,800, FLSA \$99, MML Conference \$1,500            |
| 500-510-5590-510                  | Water Admin General Supplies  |              |                                                                                                                                                                                                                             |
|                                   |                               | 64,952.00    | Postage \$1200, Postage permit \$235, Water Billing Postage \$52,000, copy paper \$1400, envelopes \$3600, Budget Supplies \$100, Thermal receipt paper \$130, KIOSK Paper \$200 Office Supplies \$5535, uniform shorts 352 |
| 500-510-5700-510                  | Water Admin Comp., Software   | 3,427.00     | Adobe License Renewal \$204, firewall \$210, Office 365 \$1,425.15, Cyber Software \$799.97, server license upgrade \$787.60                                                                                                |
| 500-510-6260-510                  | Trash Service Paid            | 575,928.00   | 95% of Billing/per contract                                                                                                                                                                                                 |
| 500-510-6350-510                  | Water Admin Phones            | 5,435.00     |                                                                                                                                                                                                                             |
| 500-510-5790-510                  | Water Admin Capital Purchase  |              |                                                                                                                                                                                                                             |
|                                   |                               | 5,000.00     | Utility Software Xpress Pay (email bills, customer view, includes annual and monthly fees for first year)                                                                                                                   |
|                                   |                               | 1,244,571.00 |                                                                                                                                                                                                                             |

Water Administration Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Water Administration Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Distribution & Maintenance

Nate Siler  
Public Works Director

[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

The primary responsibilities are to respond to customer service calls as they are received . Work activities include but are not limited to: daily, weekly, monthly and yearly routine preventative, and corrective maintenance activities for water main/service lines, water valves, fire hydrant, and install and repair water meters, mark the locations of mains and services in anticipation of underground construction, and assist in the annual flushing program and valve maintenance program.

|                      |                   | FY2024            | FY2024            | FY2025            |
|----------------------|-------------------|-------------------|-------------------|-------------------|
| Revenue              | FY2023            | Adopted           | Current YTD       | Proposed          |
| Category             | Actual            | Budget            | Actuals           | Budget            |
| Taxes                | -                 | -                 | -                 | -                 |
| Intergovernmental    | -                 | -                 | -                 | -                 |
| Licenses & Permits   | -                 | -                 | -                 | -                 |
| Charges for Services | -                 | -                 | -                 | -                 |
| Fines & Forfeitures  | -                 | -                 | -                 | -                 |
| Miscellaneous        | 701.85            | -                 | 7,286.84          | -                 |
| Other Sources        | 249,996.00        | 250,000.00        | 187,497.00        | 250,000.00        |
| <b>Total</b>         | <b>250,697.85</b> | <b>250,000.00</b> | <b>194,783.84</b> | <b>250,000.00</b> |
|                      | \$ -              | \$ -              | \$ -              | \$ -              |

|                               |                     | FY2024              | FY2024            | FY2025              |
|-------------------------------|---------------------|---------------------|-------------------|---------------------|
| Expense                       | FY2023              | Adopted             | Current YTD       | Proposed            |
| Category                      | Actual              | Budget              | Actuals           | Budget              |
| Salaries, Benefits, & Support | 413,875.00          | 594,900.00          | 375,850.62        | 608,606.00          |
| Supplies & Materials          | 2,524.39            | 4,200.00            | 1,740.01          | 4,200.00            |
| Maintenance & Repair          | 174,357.55          | 265,236.00          | 185,612.87        | 261,260.00          |
| Contractual Services          | 47,166.25           | 47,845.00           | 24,341.57         | 51,251.00           |
| Utilities                     | 14,005.25           | 14,148.00           | 8,914.58          | 14,300.00           |
| Other Expenses                | 337,119.59          | 266,004.00          | 22,656.74         | 265,972.00          |
| Capital                       | 8,679.36            | 181,000.00          | 125,292.73        | 1,375,324.00        |
| Other Uses                    | 249,996.00          | 250,000.00          | 187,497.00        | 250,000.00          |
| Debt Service                  | -                   | -                   | -                 | -                   |
| <b>Total</b>                  | <b>1,247,723.39</b> | <b>1,623,333.00</b> | <b>931,906.12</b> | <b>2,830,913.00</b> |
|                               | \$ -                | \$ -                | \$ (0.00)         | \$ -                |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Member/Train/Travel-** Increase for additional license

**Capital-** Increase for 20 Plan Repair and Replacement

#### Decreases:

|                          | FY2023   | FY2024   | FY2024   | FY2025   |
|--------------------------|----------|----------|----------|----------|
| Staffing Levels          | Actual   | Adopted  | Current  | Proposed |
|                          | Budget   | Budget   | Budget   | Budget   |
| D&M Foreman              | 2        | 2        | 2        | 2        |
| D&M Maintenance Mgr      | 1        | 1        | 1        | 1        |
| D&M Superintendent       | 1        | 1        | 1        | 1        |
| D&M Labor                | 4        | 4        | 4        | 4        |
| Administrative Assistant | 1        | 1        | 1        | 1        |
| <b>DEPARTMENT TOTAL</b>  | <b>9</b> | <b>9</b> | <b>9</b> | <b>9</b> |

|                            |
|----------------------------|
| Distribution & Maintenance |
|----------------------------|

| Account                                                   | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|--------------------------------|----------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Distribution & Maintenance Revenues                       |                                |                      |                        |                              |                               |                              |
| 500-530-4760-530                                          | Insurance Proceeds             | -                    | -                      | -                            | -                             | -                            |
| 500-530-4800-530                                          | D&M Miscellaneous              | 701.85               | -                      | 4,576.84                     | 6,102.45                      | -                            |
| 500-530-4820-530                                          | Sale of Property               | -                    | -                      | 2,710.00                     | 2,710.00                      | -                            |
| 500-530-4200-530                                          | Grant Revenue                  | -                    | -                      | -                            | -                             | -                            |
| <b>Total Distribution &amp; Maintenance Revenues</b>      |                                | <b>\$ 701.85</b>     | <b>\$ -</b>            | <b>\$ 7,286.84</b>           | <b>\$ 8,812.45</b>            | <b>\$ -</b>                  |
| Distribution & Maintenance Expenditures                   |                                |                      |                        |                              |                               |                              |
| 500-530-5010-530                                          | Water Distribution Salaries    | 314,708.48           | 380,656.00             | 258,438.79                   | 344,585.05                    | 383,317.00                   |
| 500-530-5020-530                                          | Water Distribution Overtime    | 25,529.03            | 25,000.00              | 19,024.12                    | 25,365.49                     | 27,000.00                    |
| 500-530-5070-530                                          | Availability Allowance         | 1,770.00             | 1,800.00               | 1,155.00                     | 1,800.00                      | 1,800.00                     |
| 500-530-5170-530                                          | Water Distribution Soc'l Sec.  | 25,985.87            | 30,804.00              | 21,159.16                    | 28,212.21                     | 31,160.00                    |
| 500-530-5180-530                                          | Water Distribution Retirement  | 17,220.10            | 20,133.00              | 10,923.96                    | 14,565.28                     | 24,440.00                    |
| 500-530-5190-530                                          | Water Distribution Health Ins. | 60,297.61            | 67,975.00              | 42,296.12                    | 56,394.83                     | 70,153.00                    |
| 500-530-5210-530                                          | Water Distribution Work Comp   | 46,043.40            | 17,637.00              | 16,152.30                    | 21,536.40                     | 17,841.00                    |
| 500-530-5185-530                                          | Pension Expense                | (84,260.00)          | 40,000.00              | -                            | -                             | 40,000.00                    |
| 500-530-5260-530                                          | Water Distribution Prof. Svcs  | 44,636.45            | 34,620.00              | 11,293.20                    | 15,057.60                     | 35,120.00                    |
| 500-530-5300-530                                          | Water Distribution Ins & Bonds | 2,529.80             | 13,225.00              | 13,048.37                    | 17,397.83                     | 16,131.00                    |
| 500-530-5320-530                                          | Water Distrib. Facility Maint  | 101,392.34           | 108,000.00             | 101,565.43                   | 135,420.57                    | 108,000.00                   |
| 500-530-5330-530                                          | Water Distribution Equip Maint | 26,992.43            | 42,000.00              | 30,682.54                    | 40,910.05                     | 43,260.00                    |
| 500-530-5360-530                                          | Water Distrib. Mem/Train/Trvl  | 2,147.20             | 5,000.00               | 2,792.15                     | 3,722.87                      | 7,000.00                     |
| 500-530-5380-530                                          | Water Distribution Uniforms    | 4,433.31             | 5,895.00               | 3,909.02                     | 5,212.03                      | 5,895.00                     |
| 500-530-5530-530                                          | Water Distribution Fuels       | 29,077.83            | 36,750.00              | 19,935.19                    | 26,580.25                     | 36,750.00                    |
| 500-530-5590-530                                          | Water Distrib. Gen Supplies    | 2,524.39             | 4,200.00               | 1,740.01                     | 2,320.01                      | 4,200.00                     |
| 500-530-5620-530                                          | Water Distribution Line Repair | 45,972.78            | 115,236.00             | 53,364.90                    | 71,153.20                     | 110,000.00                   |
| 500-530-5700-530                                          | Water Distrib. Comp., Software | 807.61               | 2,954.00               | 643.43                       | 857.91                        | 2,922.00                     |
| 500-530-5780-530                                          | D&M Vehicle                    | -                    | -                      | -                            | -                             | 85,000.00                    |
| 500-530-5790-530                                          | Water Dist Capital Purchases   | 7,748.50             | 181,000.00             | 125,292.73                   | 167,056.97                    | 1,290,324.00                 |
| 500-530-5990-530                                          | Depreciation                   | 304,101.12           | 220,000.00             | -                            | 220,000.00                    | 220,000.00                   |
| 500-530-6300-530                                          | Water Distribution Electricity | 5,857.68             | 6,372.00               | 1,958.28                     | 2,611.04                      | 6,300.00                     |
| 500-530-6310-530                                          | Water Distrib. Heating Fuels   | 2,209.48             | 2,106.00               | 2,703.43                     | 3,604.57                      | 2,100.00                     |
| 500-530-6350-530                                          | Water Dist Telephones          | 5,938.09             | 5,670.00               | 4,252.87                     | 5,670.49                      | 5,900.00                     |
| 500-530-6380-530                                          | Lease Purchase Payments        | 930.86               | -                      | -                            | -                             | -                            |
| 500-530-6390-530                                          | Water Distribution Minor Equip | 3,133.03             | 6,300.00               | 2,078.12                     | 2,770.83                      | 6,300.00                     |
| <b>Total Distribution &amp; Maintenance Expenditures</b>  |                                | <b>\$ 997,727.39</b> | <b>\$ 1,373,333.00</b> | <b>\$ 744,409.12</b>         | <b>\$ 1,212,805.49</b>        | <b>\$ 2,580,913.00</b>       |
| Distribution & Maintenance Other Sources                  |                                |                      |                        |                              |                               |                              |
| 500-000-3364-000                                          | Trns to Main Replacement       | 249,996.00           | 250,000.00             | 187,497.00                   | 250,000.00                    | 250,000.00                   |
| <b>Total Distribution &amp; Maintenance Other Sources</b> |                                | <b>\$ 249,996.00</b> | <b>\$ 250,000.00</b>   | <b>\$ 187,497.00</b>         | <b>\$ 250,000.00</b>          | <b>\$ 250,000.00</b>         |
| Distribution & Maintenance Other Uses                     |                                |                      |                        |                              |                               |                              |
| 500-000-3264-000                                          | Trns to Main Replacement       | 249,996.00           | 250,000.00             | 187,497.00                   | 250,000.00                    | 250,000.00                   |
| <b>Total Distribution &amp; Maintenance Other Uses</b>    |                                | <b>\$ 249,996.00</b> | <b>\$ 250,000.00</b>   | <b>\$ 187,497.00</b>         | <b>\$ 250,000.00</b>          | <b>\$ 250,000.00</b>         |
| Change in Fund Balance                                    |                                | (997,025.54)         | (1,373,333.00)         | (737,122.28)                 | (1,203,993.04)                | (2,580,913.00)               |



| D&M                   |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE              | # | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|------------------|---|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Forcum, Brandon  | 1 | 52,000.52  | \$ 52,560.54       | \$ 1,000.00           | 360                       | 4,021.00           | 3,154.00   | 7,795.00  | 2,303.00     | \$ 71,193.54               |
| Baslee, Grant    | 1 | 34,499.92  | \$ 36,550.99       |                       | 360                       | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 51,297.99               |
| Oxindine, Hunter | 1 | 34,486.40  | \$ 36,550.99       |                       |                           | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 50,937.99               |
| Brozek, Jane     | 1 | 43,401.80  | \$ 44,703.85       |                       | 360                       | 3,420.00           | 2,683.00   | 7,795.00  | 1,959.00     | \$ 60,920.85               |
| Combs, Cody      | 1 | 45,999.98  | \$ 46,379.98       | \$ 1,000.00           | 360                       | 3,549.00           | 2,783.00   | 7,795.00  | 2,032.00     | \$ 63,898.98               |
| McCool, Michael  | 1 | 41,999.88  | \$ 42,259.88       | \$ 1,000.00           | 360                       | 3,233.00           | 2,536.00   | 7,795.00  | 1,851.00     | \$ 59,034.88               |
| Hixon, Fred      | 1 | 34,486.40  | \$ 36,550.99       |                       |                           | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 50,937.99               |
| Murphy, Danny    | 1 | 46,804.42  | \$ 48,208.55       |                       |                           | 3,688.00           | 2,893.00   | 7,795.00  | 2,112.00     | \$ 64,696.55               |
| Murphy, Wyatt    | 1 | 33,966.40  | \$ 36,550.99       |                       |                           | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 50,937.99               |
| 9.00             |   | 367,645.72 | 380,316.77         | 3,000.00              | 1,800.00                  | 29,099.00          | 22,825.00  | 70,155.00 | 16,661.00    | \$ 523,856.77              |

|                      |           |           |
|----------------------|-----------|-----------|
| Overtime             | 25,365.49 | 27,000.00 |
| Part Time & Seasonal |           |           |

|                |            |            |
|----------------|------------|------------|
| Total Salaries | 393,011.21 | 407,316.77 |
|----------------|------------|------------|

| Department Request |                                        |  |
|--------------------|----------------------------------------|--|
| Amount             | Justification & Supporting Information |  |
| D&M Revenues       |                                        |  |
| 500-530-4820-530   | Sale of Property                       |  |
| 500-530-4200-530   | Grant Revenue                          |  |
|                    |                                        |  |
|                    |                                        |  |

|                  |                                | Amount     | Justification & Supporting Information                                                                                                                                                                                                                  |
|------------------|--------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D&M Expenditures |                                |            |                                                                                                                                                                                                                                                         |
| 500-530-5010-530 | Water Distribution Salaries    | 383,317.00 |                                                                                                                                                                                                                                                         |
| 500-530-5020-530 | Water Distribution Overtime    | 27,000.00  | Increase due to wage increases                                                                                                                                                                                                                          |
| 500-530-5070-530 | Availability Allowance         | 1,800.00   |                                                                                                                                                                                                                                                         |
| 500-530-5170-530 | Water Distribution Soc'l Sec.  | 31,160.00  |                                                                                                                                                                                                                                                         |
| 500-530-5180-530 | Water Distribution Retirement  | 24,440.00  |                                                                                                                                                                                                                                                         |
| 500-530-5190-530 | Water Distribution Health Ins. | 70,153.00  |                                                                                                                                                                                                                                                         |
| 500-530-5210-530 | Water Distribution Work Comp   | 17,841.00  |                                                                                                                                                                                                                                                         |
| 500-530-5185-530 | Pension Expense                | 40,000.00  | YE entry from auditor -enterprise fund                                                                                                                                                                                                                  |
| 500-530-5260-530 | Water Distribution Prof. Svcs  |            | Engineering services as needed, \$1500 for MRWA membership, Stronghold \$3000, Security alarm \$200, copier agreement \$100, Locates \$2000, KC Railway contracts \$2000, Fire & sprinkler inspection \$300, AED \$100, DOT randoms \$200, Stronghold 4 |
|                  |                                | 35,120.00  |                                                                                                                                                                                                                                                         |
| 500-530-5300-530 | Water Distribution Ins & Bonds | 16,131.00  | Property Ins                                                                                                                                                                                                                                            |
| 500-530-5320-530 | Water Distrib. Facility Maint  | 108,000.00 | Annual Tower Maintenance \$98,000                                                                                                                                                                                                                       |
| 500-530-5330-530 | Water Distribution Equip Maint | 43,260.00  | Expected equipment repairs and maintenance                                                                                                                                                                                                              |
| 500-530-5360-530 | Water Distrib. Mem/Train/Trvl  |            | \$1,000 for DS training, MRWA conference \$5000, Annual dues, and certifications \$1000                                                                                                                                                                 |
|                  |                                | 7,000.00   |                                                                                                                                                                                                                                                         |
| 500-530-5380-530 | Water Distribution Uniforms    |            |                                                                                                                                                                                                                                                         |
|                  |                                | 5,895.00   | \$5,895 for jeans, boots, coat, vest and hat allowance                                                                                                                                                                                                  |
| 500-530-5530-530 | Water Distribution Fuels       | 36,750.00  |                                                                                                                                                                                                                                                         |
| 500-530-5590-530 | Water Distrib. Gen Supplies    | 4,200.00   |                                                                                                                                                                                                                                                         |
| 500-530-5620-530 | Water Distribution Line Repair |            | Pricing continuing to rise for materials, PO 2757 Joplin Supply \$4,215, PO 2787 Consolidated Pipe \$2,064                                                                                                                                              |
|                  |                                | 110,000.00 |                                                                                                                                                                                                                                                         |
| 500-530-5700-530 | Water Distrib. Comp., Software |            | firewall \$210, Office 365 \$712.58, Cyber Software \$399.98, server license upgrade \$98.45                                                                                                                                                            |
|                  |                                | 2,922.00   |                                                                                                                                                                                                                                                         |
| 500-530-5780-530 | D&M Vehicle                    | 85,000.00  | 1 ton service truck \$85,000,                                                                                                                                                                                                                           |
| D&M Expenditures |                                | Amount     | Justification & Supporting Information                                                                                                                                                                                                                  |

|                  |                                |              |                                                                                                                                                                                                                                                                                                                         |
|------------------|--------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 500-530-5790-530 | Water Dist Capital Purchases   |              | Reconfigure City-Upper and City-Downtown pressure zone boundary to eliminate a highpressure area, City-Upper Pressure zone water line replacement, reserve for needed water main replacement per schedule. Hydraulic power pack \$12,000, Street saw \$5,000, Electricity and lights for storage barn 50% share \$7,500 |
|                  |                                | 1,290,324.00 |                                                                                                                                                                                                                                                                                                                         |
| 500-530-5990-530 | Depreciation                   | 220,000.00   |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6300-530 | Water Distribution Electricity | 6,300.00     |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6310-530 | Water Distrib. Heating Fuels   | 2,100.00     |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6350-530 | Water Dist Telephones          | 5,900.00     |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6380-530 | Lease Purchase Payments        |              |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6390-530 | Water Distribution Minor Equip | 6,300.00     |                                                                                                                                                                                                                                                                                                                         |
|                  |                                | 2,580,913.00 |                                                                                                                                                                                                                                                                                                                         |

|                   |                                |            |                                        |
|-------------------|--------------------------------|------------|----------------------------------------|
| D&M Other Sources |                                | Amount     | Justification & Supporting Information |
| 500-000-3364-000  | Trns to Main Replacement       | 250,000.00 |                                        |
| 500-000-3353-000  | Transfer fm Water -Rplcmt Rsrv |            |                                        |

|                  |                          |            |                                        |
|------------------|--------------------------|------------|----------------------------------------|
| D&M Other Uses   |                          | Amount     | Justification & Supporting Information |
| 500-000-3264-000 | Trns to Main Replacement | 250,000.00 |                                        |

## Meter Department

Nate Siler  
Public Works Director  
[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

Read all 5,700 residential, commercial and industrial customer meters. They also perform all the required daily, weekly, monthly, and yearly testing of the drinking water system to ensure we comply with both state and federal guidelines. Repair to residential meters, AMR equipment, vaults, curb stops and general maintenance.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | 186,889.92        | 188,000.00            | 157,974.79                 | 188,000.00             |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | 202,788.00        | 1,135,980.00          | 696,453.00                 | 1,179,198.00           |
| <b>Total</b>         | <b>389,677.92</b> | <b>1,323,980.00</b>   | <b>854,427.79</b>          | <b>1,367,198.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 216,816.79        | 346,012.00            | 220,978.46                 | 302,860.00             |
| Supplies & Materials          | -                 | -                     | -                          | -                      |
| Maintenance & Repair          | -                 | -                     | -                          | -                      |
| Contractual Services          | -                 | -                     | -                          | -                      |
| Utilities                     | -                 | -                     | -                          | -                      |
| Other Expenses                | -                 | -                     | -                          | -                      |
| Capital                       | -                 | -                     | -                          | -                      |
| Other Uses                    | 202,788.00        | 1,135,980.00          | 696,453.00                 | 1,179,198.00           |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>419,604.79</b> | <b>1,481,992.00</b>   | <b>917,431.46</b>          | <b>1,482,058.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Meter Sets**- Carry over FY2024 open POS to be completed FY2025

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| Meter Foreman           |               | 1                     | 1                     | 1                      |
| Meter Readers           |               | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b> |               | <b>3</b>              | <b>3</b>              | <b>3</b>               |

|        |
|--------|
| Meters |
|--------|

| Account                           | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------|--------------------------------|----------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Meters Revenues                   |                                |                      |                        |                              |                               |                              |
| 500-530-3500-531                  | Meter Fee                      | 136,016.97           | 130,000.00             | 101,059.93                   | 130,000.00                    | 130,000.00                   |
| 500-530-3610-531                  | Water Taps                     | 50,872.95            | 58,000.00              | 56,914.86                    | 58,000.00                     | 58,000.00                    |
| 500-530-4800-531                  | Meter Misc. Revenue            | -                    | -                      | -                            | -                             | -                            |
| <b>Total Meters Revenues</b>      |                                | <b>\$ 186,889.92</b> | <b>\$ 188,000.00</b>   | <b>\$ 157,974.79</b>         | <b>\$ 188,000.00</b>          | <b>\$ 188,000.00</b>         |
| Meters Expenditures               |                                |                      |                        |                              |                               |                              |
| 500-530-5010-531                  | Meter Read/Mtnce. Salaries     | 99,141.15            | 120,757.00             | 82,882.87                    | 110,510.49                    | 126,013.00                   |
| 500-530-5020-531                  | Meter Reading Overtime         | 7,112.56             | 8,000.00               | 5,352.32                     | 7,136.43                      | 8,000.00                     |
| 500-530-5030-531                  | Meter Program Part Time        | 12,213.75            | 22,620.00              | 6,843.75                     | 9,125.00                      | 15,000.00                    |
| 500-530-5070-531                  | Availability Allowance         | 990.00               | 1,080.00               | 540.00                       | 720.00                        | 1,080.00                     |
| 500-530-5170-531                  | Meter Program Social Security  | 9,162.90             | 11,504.00              | 7,257.44                     | 9,676.59                      | 11,247.00                    |
| 500-530-5180-531                  | Meter Program Retirement       | 5,713.02             | 6,388.00               | 3,505.76                     | 4,674.35                      | 7,921.00                     |
| 500-530-5190-531                  | Meter Prog Health Insurance    | 19,497.95            | 22,659.00              | 14,893.00                    | 19,857.33                     | 23,385.00                    |
| 500-530-5210-531                  | Meter Program Workers Comp.    | 3,683.65             | 6,587.00               | 5,335.50                     | 7,114.00                      | 6,440.00                     |
| 500-530-5300-531                  | Meter Program Insurance & Bond | -                    | -                      | -                            | -                             | -                            |
| 500-530-5330-531                  | Meter Program Equipment Maint. | 11,522.10            | 26,250.00              | 2,949.14                     | 3,932.19                      | 15,000.00                    |
| 500-530-5380-531                  | Meter Program Uniforms         | 945.97               | 1,875.00               | 1,333.88                     | 1,778.51                      | 1,875.00                     |
| 500-530-5530-531                  | Meter Program Fuels/Lubricants | 8,156.76             | 7,350.00               | 2,397.65                     | 3,196.87                      | 7,350.00                     |
| 500-530-5590-531                  | Meter Program General Supplies | 1,742.56             | 1,575.00               | 2,545.72                     | 3,394.29                      | 1,575.00                     |
| 500-530-5650-531                  | Meter Program Meter Sets       | 36,516.28            | 55,000.00              | 34,490.60                    | 45,987.47                     | 75,715.00                    |
| 500-530-5660-531                  | Meter Replacement Program      | -                    | -                      | -                            | -                             | -                            |
| 500-530-5700-531                  | Meter Reading Comp/Software    | 418.14               | 2,146.00               | 248.25                       | 331.00                        | 2,259.00                     |
| 500-530-5790-531                  | Meter Program Capital Equip    | -                    | 52,221.00              | 50,402.58                    | 67,203.44                     | -                            |
| <b>Total Meters Expenditures</b>  |                                | <b>\$ 216,816.79</b> | <b>\$ 346,012.00</b>   | <b>\$ 220,978.46</b>         | <b>\$ 294,637.95</b>          | <b>\$ 302,860.00</b>         |
| Meters Other Sources              |                                |                      |                        |                              |                               |                              |
| 500-000-3353-000                  | Transfer fm Water -Rplcmt Rsrv | 202,788.00           | 1,135,980.00           | 696,453.00                   | 1,135,980.00                  | 1,179,198.00                 |
| <b>Total Meters Other Sources</b> |                                | <b>\$ 202,788.00</b> | <b>\$ 1,135,980.00</b> | <b>\$ 696,453.00</b>         | <b>\$ 1,135,980.00</b>        | <b>\$ 1,179,198.00</b>       |
| Meters Other Uses                 |                                |                      |                        |                              |                               |                              |
| 500-000-3253-000                  | Transfer to Water Rplcmt Resrv | 202,788.00           | 1,135,980.00           | 696,453.00                   | 1,135,980.00                  | 1,179,198.00                 |
| <b>Total Meters Other Uses</b>    |                                | <b>\$ 202,788.00</b> | <b>\$ 1,135,980.00</b> | <b>\$ 696,453.00</b>         | <b>\$ 1,135,980.00</b>        | <b>\$ 1,179,198.00</b>       |
| Change in Fund Balance            |                                | (29,926.87)          | (158,012.00)           | (63,003.67)                  | (106,637.95)                  | (114,860.00)                 |

| Meter Replacement     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|----------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Strohl, Matthew      | 1    | 45,358.82  | \$ 47,066.62       | \$ 1,000.00           | 360                       | 3,601.00           | 2,824.00   | 7,795.00  | 2,062.00     | \$ 64,708.62               |
| Wirth, Jordan        | 1    | 34,597.68  | \$ 36,374.74       |                       | 360                       | 2,783.00           | 2,183.00   | 7,795.00  | 1,594.00     | \$ 51,089.74               |
| Beckett, Jessie      | 1    | 39,682.76  | \$ 40,571.13       | \$ 1,000.00           | 360                       | 3,104.00           | 2,435.00   | 7,795.00  | 1,778.00     | \$ 57,043.13               |
|                      | 3.00 | 119,639.26 | 124,012.49         | 2,000.00              | 1,080.00                  | 9,488.00           | 7,442.00   | 23,385.00 | 5,434.00     | \$ 172,841.49              |
| Overtime             |      | 7,136.43   | 8,000.00           |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      |            | 15,000.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 126,775.69 | 147,012.49         |                       |                           |                    |            |           |              |                            |

| Department Request          |                                        |
|-----------------------------|----------------------------------------|
| Amount                      | Justification & Supporting Information |
| 500-530-3500-531 Meter Fee  | 130,000.00                             |
| 500-530-3610-531 Water Taps | 58,000.00 5 year historical average    |
|                             |                                        |
|                             | 188,000.00                             |

| Meter Replacement Expenditures                  |                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Amount                                          | Justification & Supporting Information                                                                |
| 500-530-5010-531 Meter Read/Mtnce. Salaries     | 126,013.00                                                                                            |
| 500-530-5020-531 Meter Reading Overtime         | 8,000.00                                                                                              |
| 500-530-5030-531 Meter Program Part Time        | 15,000.00 Reduce, Carter works 1-2 days a week                                                        |
| 500-530-5070-531 Availability Allowance         | 1,080.00                                                                                              |
| 500-530-5170-531 Meter Program Social Security  | 11,247.00                                                                                             |
| 500-530-5180-531 Meter Program Retirement       | 7,921.00                                                                                              |
| 500-530-5190-531 Meter Prog Health Insurance    | 23,385.00                                                                                             |
| 500-530-5210-531 Meter Program Workers Comp.    | 6,440.00                                                                                              |
| 500-530-5300-531 Meter Program Insurance & Bond | -                                                                                                     |
| 500-530-5330-531 Meter Program Equipment Maint. | 15,000.00 MXU damages and equipment as needed                                                         |
| 500-530-5380-531 Meter Program Uniforms         | 1,875.00 \$1,875 for jeans, boots, coat, vest and hat allowance                                       |
| 500-530-5530-531 Meter Program Fuels/Lubricants | 7,350.00                                                                                              |
| 500-530-5590-531 Meter Program General Supplies | 1,575.00                                                                                              |
| 500-530-5650-531 Meter Program Meter Sets       | 75,715.00 PO 2774 Core & Main \$20,715                                                                |
| 500-530-5660-531 Meter Replacement Program      |                                                                                                       |
| 500-530-5700-531 Meter Reading Comp/Software    | 2,259.00 \$1,949.94 for Sensus yearly software update, firewall \$210, server license upgrade \$98.45 |
| 500-530-5790-531 Meter Program Capital Equip    |                                                                                                       |
|                                                 |                                                                                                       |
|                                                 | 302,860.00                                                                                            |

| Meter Replacement Other Sources                 |                                        |
|-------------------------------------------------|----------------------------------------|
| Amount                                          | Justification & Supporting Information |
| 500-000-3353-000 Transfer fm Water -Rplcmt Rsrv | 1,179,198.00                           |

| Meter Replacement Other Uses                   |                                        |
|------------------------------------------------|----------------------------------------|
| Amount                                         | Justification & Supporting Information |
| 500-000-3253-000 Transfer to Water Rplcmt Rsrv | 1,179,198.00                           |

## Filtration

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | 252,518.85        | -                     | -                          | 132,000.00             |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forefeitures | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | -                 | -                     | -                          | -                      |
| <b>Total</b>         | <b>252,518.85</b> | <b>-</b>              | <b>-</b>                   | <b>132,000.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                 | -                     | -                          | -                      |
| Supplies & Materials          | 156.59            | 200.00                | 88.38                      | 200.00                 |
| Maintenance & Repair          | 13,689.22         | 25,000.00             | 17,480.18                  | 25,000.00              |
| Contractual Services          | 281,464.72        | 387,288.00            | 296,164.94                 | 394,497.00             |
| Utilities                     | 358,121.91        | 367,004.00            | 236,179.42                 | 364,650.00             |
| Other Expenses                | 1,348.01          | 1,396.00              | 1,198.20                   | 1,510.00               |
| Capital                       | 11,049.12         | 195,562.00            | 34,866.70                  | 324,000.00             |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>665,829.57</b> | <b>976,450.00</b>     | <b>585,977.82</b>          | <b>1,109,857.00</b>    |
|                               | \$ -              | \$ -                  | \$ (0.00)                  | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Alliance Contract** - FY25 allocation based on dollars budgeted with CPI increase of 3%

#### Decreases:

**Professional Services** - Decrease based on actual need

**Insurance and Bonds** - Decrease due to allocation of property

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No City FTEs            |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

|            |
|------------|
| Filtration |
|------------|

| Account                               | Account Name                  | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------|-------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Filtration Revenues                   |                               |                      |                      |                              |                               |                              |
| 500-610-4200-520                      | Grant Revenue                 | 252,518.85           | -                    | -                            | -                             | 132,000.00                   |
| 500-610-4760-520                      | Filtration Insurance Claims   | -                    | -                    | -                            | -                             | -                            |
| 500-610-4800-520                      | Filtration Miscellaneous      | -                    | -                    | -                            | -                             | -                            |
| New                                   | MDC Grant Revenue             | -                    | -                    | -                            | -                             | -                            |
| <b>Total Filtration Revenues</b>      |                               | <b>\$ 252,518.85</b> | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ 132,000.00</b>         |
| Filtration Expenditures               |                               |                      |                      |                              |                               |                              |
| 500-610-5260-520                      | Water Plant Prof. Services    | 4,097.08             | 19,650.00            | 5,980.53                     | 7,974.04                      | 17,150.00                    |
| 500-610-5300-520                      | Water Plant Insurance & Bonds | 55,559.24            | 84,786.00            | 77,193.83                    | 102,925.11                    | 76,262.00                    |
| 500-610-5320-520                      | Water Plant Facility Maint.   | 4,756.24             | 15,000.00            | 6,238.50                     | 8,318.00                      | 15,000.00                    |
| 500-610-5330-520                      | Water Plant Equipment Maint.  | 8,932.98             | 10,000.00            | 11,241.68                    | 14,988.91                     | 10,000.00                    |
| 500-610-5530-520                      | Water Plant Fuels/Lubricants  | 1,348.01             | 1,200.00             | 1,198.20                     | 1,597.60                      | 1,300.00                     |
| 500-610-5590-520                      | Water Plant General Supplies  | 156.59               | 200.00               | 88.38                        | 117.84                        | 200.00                       |
| 500-610-5700-520                      | Filtration Comp., Software    | -                    | 196.00               | -                            | -                             | 210.00                       |
| 500-610-5780-520                      | Filtration Cap. Vehicles      | -                    | -                    | -                            | -                             | -                            |
| 500-610-5790-520                      | Filtration Capital- Other     | 11,049.12            | 195,562.00           | 34,866.70                    | 46,488.93                     | 324,000.00                   |
| 500-610-5800-520                      | Alliance Contract             | 221,808.40           | 282,852.00           | 212,990.58                   | 283,987.44                    | 301,085.00                   |
| 500-610-6300-520                      | Filtration Electricity        | 340,879.02           | 346,578.00           | 218,946.37                   | 291,928.49                    | 346,000.00                   |
| 500-610-6310-520                      | Filtration Heating Fuels      | 9,708.90             | 9,905.00             | 9,895.00                     | 13,193.33                     | 9,900.00                     |
| 500-610-6350-520                      | Filtration Phones             | 7,533.99             | 10,521.00            | 7,338.05                     | 9,784.07                      | 8,750.00                     |
| <b>Total Filtration Expenditures</b>  |                               | <b>\$ 665,829.57</b> | <b>\$ 976,450.00</b> | <b>\$ 585,977.82</b>         | <b>\$ 781,303.76</b>          | <b>\$ 1,109,857.00</b>       |
| Filtration Other Sources              |                               |                      |                      |                              |                               |                              |
| <b>Total Filtration Other Sources</b> |                               | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Filtration Other Uses                 |                               |                      |                      |                              |                               |                              |
| <b>Total Filtration Other Uses</b>    |                               | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                |                               | (413,310.72)         | (976,450.00)         | (585,977.82)                 | (781,303.76)                  | (977,857.00)                 |

## Filtration

### Filtration Revenues

|                  |                             |
|------------------|-----------------------------|
| 500-610-4200-520 | Grant Revenue               |
| 500-610-4760-520 | Filtration Insurance Claims |
| 500-610-4800-520 | Filtration Miscellaneous    |
| New              | MDC Grant Revenue           |

| Department Request |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Amount             | Justification & Supporting Information                                |
| 132,000.00         | Assumes 20% match- DNR Energy Efficiency and Conservation Block Grant |
|                    |                                                                       |
|                    |                                                                       |
| 132,000.00         |                                                                       |

### Filtration Expenditures

|                  |                               |
|------------------|-------------------------------|
| 500-610-5260-520 | Water Plant Prof. Services    |
| 500-610-5300-520 | Water Plant Insurance & Bonds |
| 500-610-5320-520 | Water Plant Facility Maint.   |
| 500-610-5330-520 | Water Plant Equipment Maint.  |
| 500-610-5530-520 | Water Plant Fuels/Lubricants  |
| 500-610-5590-520 | Water Plant General Supplies  |
| 500-610-5700-520 | Filtration Comp., Software    |
| 500-610-5780-520 | Filtration Cap. Vehicles      |
| 500-610-5790-520 | Filtration Capital- Other     |

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17,150.00    | Pest control \$480, Copier maintenance agreement \$100, On call engineering \$5000, Annual Hach Certification maintenance \$10,000, Alarm Monitor \$670                                                                                                                                     |
| 76,262.00    | Property Ins                                                                                                                                                                                                                                                                                |
| 15,000.00    |                                                                                                                                                                                                                                                                                             |
| 10,000.00    |                                                                                                                                                                                                                                                                                             |
| 1,300.00     |                                                                                                                                                                                                                                                                                             |
| 200.00       | Alliance                                                                                                                                                                                                                                                                                    |
| 210.00       | Firewall 210                                                                                                                                                                                                                                                                                |
| 324,000.00   | Replace/Repair filter valves \$40,000, Filter turbidimeter upgrade/replace \$12,000, Flow Meter \$12,000, Filter console keypad replacements \$25,000, Cl2 emergency shut-off actuator rebuild \$10,000, Crowder Pump Station high service pump \$30,000, Replacement windows plant 165,000 |
| 301,085.00   | updated to include 3% CPI and \$50,000 chemical overage                                                                                                                                                                                                                                     |
| 346,000.00   |                                                                                                                                                                                                                                                                                             |
| 9,900.00     |                                                                                                                                                                                                                                                                                             |
| 8,750.00     | Verizon tower communications \$3844.2                                                                                                                                                                                                                                                       |
|              |                                                                                                                                                                                                                                                                                             |
| 1,109,857.00 |                                                                                                                                                                                                                                                                                             |

### Filtration Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

### Filtration Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |



## Wastewater

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

|                      | FY2023              | FY2024              | FY2024              | FY2025              |
|----------------------|---------------------|---------------------|---------------------|---------------------|
| Revenue              |                     | Adopted             | Current YTD         | Proposed            |
| Category             | Actual              | Budget              | Actuals             | Budget              |
| Taxes                | -                   | -                   | -                   | -                   |
| Intergovernmental    | -                   | -                   | -                   | -                   |
| Licenses & Permits   | -                   | -                   | -                   | -                   |
| Charges for Services | 2,365,119.65        | 3,187,194.00        | 1,949,067.37        | 3,674,021.00        |
| Fines & Forfeitures  | -                   | -                   | -                   | -                   |
| Miscellaneous        | 30,317.70           | -                   | 8,270.81            | -                   |
| Other Sources        | 298,558.87          | 1,590,098.00        | 850,685.67          | 1,910,666.00        |
| <b>Total</b>         | <b>2,693,996.22</b> | <b>4,777,292.00</b> | <b>2,808,023.85</b> | <b>5,584,687.00</b> |
|                      | \$ -                | \$ -                | \$ -                | \$ -                |

|                               | FY2023              | FY2024              | FY2024              | FY2025              |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|
| Expense                       |                     | Adopted             | Current YTD         | Proposed            |
| Category                      | Actual              | Budget              | Actuals             | Budget              |
| Salaries, Benefits, & Support | -                   | -                   | -                   | -                   |
| Supplies & Materials          | 376.06              | 525.00              | 96.90               | 525.00              |
| Maintenance & Repair          | 51,906.74           | 105,500.00          | 28,880.82           | 88,000.00           |
| Contractual Services          | 1,089,481.32        | 1,016,494.00        | 790,787.15          | 1,047,924.00        |
| Utilities                     | 256,779.84          | 276,224.00          | 149,194.75          | 272,247.00          |
| Other Expenses                | 682,810.68          | 633,248.00          | 21,427.62           | 633,558.00          |
| Capital                       | 93,896.82           | 654,613.69          | 378,956.30          | 1,948,078.00        |
| Other Uses                    | 242,160.98          | 1,282,791.00        | 788,463.00          | 1,688,031.00        |
| Debt Service                  | -                   | -                   | -                   | -                   |
| <b>Total</b>                  | <b>2,417,412.44</b> | <b>3,969,395.69</b> | <b>2,157,806.54</b> | <b>5,678,363.00</b> |
|                               | \$ (0.00)           | \$ -                | \$ -                | \$ -                |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**WW Lines Capital** - Increase replacement and **repairs 20 Year plan**

**Alliance Contract** - FY24 allocation based on dollars budgeted with CPI increase of 3%

**Billing-** Increase for rates

#### Decreases:

**Equipment Maintenance**-Decrease based on need

**Facility Maintenance**-Decrease based on need

|                         | FY2023   | FY2024   | FY2024   | FY2025   |
|-------------------------|----------|----------|----------|----------|
| Staffing Levels         | Actual   | Adopted  | Current  | Proposed |
| Category                | Actual   | Budget   | Budget   | Budget   |
| No City FTEs            |          |          |          |          |
| <b>DEPARTMENT TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Wastewater

| Account                               | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| <b>Wastewater Revenues</b>            |                               |                        |                        |                              |                               |                              |
| 500-610-3520-610                      | Pretreatment/Surcharge WW     | 88,972.29              | 82,000.00              | 76,465.03                    | 101,953.37                    | 82,000.00                    |
| 500-610-3590-610                      | Billings to Customers WW      | 2,274,822.36           | 3,102,194.00           | 1,872,177.34                 | 2,496,236.45                  | 3,589,021.00                 |
| 500-610-3610-610                      | Sewer Saddle Charges          | 1,325.00               | 3,000.00               | 425.00                       | 566.67                        | 3,000.00                     |
| 500-610-4200-610                      | DNR Grant                     | -                      | -                      | -                            | -                             | -                            |
| 500-610-4760-610                      | Insurance Claims              | 7,221.75               | -                      | 5,397.61                     | 5,397.61                      | -                            |
| 500-610-4800-610                      | Wastewater Misc. Revenue      | 23,095.95              | -                      | 163.20                       | 217.60                        | -                            |
| 500-610-4820-610                      | Wastewater Sale of Property   | -                      | -                      | 2,710.00                     | 3,613.33                      | -                            |
| 500-610-4205-610                      | MIRMA Grant                   | -                      | -                      | -                            | -                             | -                            |
| <b>Total Wastewater Revenues</b>      |                               | <b>\$ 2,395,437.35</b> | <b>\$ 3,187,194.00</b> | <b>\$ 1,957,338.18</b>       | <b>\$ 2,607,985.04</b>        | <b>\$ 3,674,021.00</b>       |
| <b>Wastewater Expenditures</b>        |                               |                        |                        |                              |                               |                              |
| 500-610-5250-610                      | Wastewater Rent Expense       | 9,700.08               | 9,700.00               | 7,275.06                     | 9,700.08                      | 9,700.00                     |
| 500-610-5260-610                      | Wastewater Prof. Services     | 128,299.61             | 33,766.00              | 25,164.18                    | 33,552.24                     | 33,766.00                    |
| 500-610-5300-610                      | Wastewater Insurance & Bonds  | 33,081.78              | 51,960.00              | 52,567.55                    | 70,090.07                     | 68,831.00                    |
| 500-610-5320-610                      | Wastewater Facility Maint.    | 1,951.00               | 20,000.00              | 3,448.00                     | 4,597.33                      | 15,000.00                    |
| 500-610-5330-610                      | Wastewater Equipment Maint.   | 47,297.74              | 82,500.00              | 25,432.82                    | 33,910.43                     | 70,000.00                    |
| 500-610-5530-610                      | Wastewater Fuels/Lubricants   | 32,926.30              | 23,352.00              | 13,944.29                    | 18,592.39                     | 23,352.00                    |
| 500-610-5590-610                      | Wastewater General Supplies   | 376.06                 | 525.00                 | 96.90                        | 129.20                        | 525.00                       |
| 500-610-5620-610                      | Wastewater Line Repair        | 2,658.00               | 3,000.00               | -                            | -                             | 3,000.00                     |
| 500-610-5700-610                      | Wastewater Comp., Software    | 192.32                 | 196.00                 | 208.27                       | 277.69                        | 506.00                       |
| 500-610-5780-610                      | WW Vehicle                    | 37,760.00              | 84,763.00              | -                            | 84,763.00                     | 90,000.00                    |
| 500-610-5790-610                      | WW Capital Equipment          | 51,386.82              | 537,437.00             | 359,592.25                   | 537,437.00                    | 259,000.00                   |
| 500-610-5800-610                      | Alliance Contract             | 928,099.93             | 930,768.00             | 713,055.42                   | 950,740.56                    | 945,327.00                   |
| 500-610-5990-610                      | Depreciation                  | 639,991.98             | 600,000.00             | -                            | 600,000.00                    | 600,000.00                   |
| 500-610-6300-610                      | Wastewater Electricity        | 245,685.69             | 259,109.00             | 140,946.73                   | 187,928.97                    | 259,109.00                   |
| 500-610-6310-610                      | Wastewater Heating Fuels      | 1,944.22               | 7,350.00               | 2,016.01                     | 2,688.01                      | 7,350.00                     |
| 500-610-6350-610                      | Wastewater Phones             | 9,149.93               | 9,765.00               | 6,232.01                     | 8,309.35                      | 5,788.00                     |
| 500-610-6390-610                      | Wastewater Minor Equipment    | -                      | -                      | -                            | -                             | -                            |
| 500-610-5810-619                      | WW Line Capital Improvemt     | 4,750.00               | 32,413.69              | 19,364.05                    | 25,818.73                     | 1,599,078.00                 |
| <b>Total Wastewater Expenditures</b>  |                               | <b>\$ 2,175,251.46</b> | <b>\$ 2,686,604.69</b> | <b>\$ 1,369,343.54</b>       | <b>\$ 2,568,535.05</b>        | <b>\$ 3,990,332.00</b>       |
| <b>Wastewater Other Sources</b>       |                               |                        |                        |                              |                               |                              |
| 500-000-3361-000                      | Transfer fm WW -Rplcmt Rsrv   | 91,020.00              | 1,132,791.00           | 675,963.00                   | 1,132,791.00                  | 1,538,031.00                 |
| 500-000-3363-000                      | Slip Lining Reserve           | 150,000.00             | 150,000.00             | 112,500.00                   | 150,000.00                    | 150,000.00                   |
| 500-000-3306-000                      | Transfer fm ARPA              | 21,197.89              | 307,307.00             | 62,222.67                    | 307,307.00                    | 222,635.00                   |
| 500-000-3362-000                      | Transfer from Other Funds     | 36,340.98              | -                      | -                            | -                             | -                            |
| <b>Total Wastewater Other Sources</b> |                               | <b>\$ 298,558.87</b>   | <b>\$ 1,590,098.00</b> | <b>\$ 850,685.67</b>         | <b>\$ 1,590,098.00</b>        | <b>\$ 1,910,666.00</b>       |
| <b>Wastewater Other Uses</b>          |                               |                        |                        |                              |                               |                              |
| 500-000-3261-000                      | Transfer to WW Rplcmt Reserve | 91,020.00              | 1,132,791.00           | 675,963.00                   | 1,132,791.00                  | 1,538,031.00                 |
| 500-000-3263-000                      | Slip Lining Reserve           | 150,000.00             | 150,000.00             | 112,500.00                   | 150,000.00                    | 150,000.00                   |
| 500-000-3292-000                      | Transfer to other funds       | 1,140.98               | -                      | -                            | -                             | -                            |
| <b>Total Wastewater Other Uses</b>    |                               | <b>\$ 242,160.98</b>   | <b>\$ 1,282,791.00</b> | <b>\$ 788,463.00</b>         | <b>\$ 1,282,791.00</b>        | <b>\$ 1,688,031.00</b>       |
| <b>Change in Fund Balance</b>         |                               | <b>276,583.78</b>      | <b>807,896.31</b>      | <b>650,217.31</b>            | <b>346,756.98</b>             | <b>(93,676.00)</b>           |

## Wastewater

### Wastewater Revenues

|                  |                           |
|------------------|---------------------------|
| 500-610-3520-610 | Pretreatment/Surcharge WW |
| 500-610-3590-610 | Billings to Customers WW  |
| 500-610-3610-610 | Sewer Saddle Charges      |
| 500-610-4200-610 | DNR Grant                 |
| 500-610-4205-610 | MIRMA Grant               |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 82,000.00          |                                        |
| 3,589,021.00       | 10 months new rates incl sewer only    |
| 3,000.00           | cost coverage                          |
|                    |                                        |
|                    |                                        |
| 3,674,021.00       |                                        |

### Wastewater Expenditures

|                  |                              |
|------------------|------------------------------|
| 500-610-5250-610 | Wastewater Rent Expense      |
| 500-610-5260-610 | Wastewater Prof. Services    |
| 500-610-5300-610 | Wastewater Insurance & Bonds |
| 500-610-5320-610 | Wastewater Facility Maint.   |
| 500-610-5330-610 | Wastewater Equipment Maint.  |
| 500-610-5530-610 | Wastewater Fuels/Lubricants  |
| 500-610-5590-610 | Wastewater General Supplies  |
| 500-610-5620-610 | Wastewater Line Repair       |
| 500-610-5700-610 | Wastewater Comp., Software   |
| 500-610-5780-610 | WW Vehicle                   |
| 500-610-5790-610 | WW Capital Equipment         |

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                   |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9,700.00     |                                                                                                                                                                                                                                                                                                          |
| 33,766.00    | Future Growth Engineering for WW Plant Study \$5246, Stronghold \$2640, PACE \$12000, Inspections \$2000, Security \$200, Locates \$3000, AED Maintenance \$100, pest \$540, KCSRailroad \$8,000, CPR instructor \$40                                                                                    |
| 68,831.00    | Property Ins                                                                                                                                                                                                                                                                                             |
| \$15,000     |                                                                                                                                                                                                                                                                                                          |
| 70,000.00    | UV system maintenance \$30,000 Sludge truck tires \$5000, lift station repairs \$20,000                                                                                                                                                                                                                  |
| 23,352.00    |                                                                                                                                                                                                                                                                                                          |
| 525.00       |                                                                                                                                                                                                                                                                                                          |
| 3,000.00     | Sewer Saddles                                                                                                                                                                                                                                                                                            |
| 506.00       | Firewall \$210, server license upgrade \$295.35                                                                                                                                                                                                                                                          |
| 90,000.00    | 2- 1/2 ton Plant Trucks replace 2012s                                                                                                                                                                                                                                                                    |
| 259,000.00   | Influent pump replace/rebuild \$75,000, RAS pump Rebuild \$85,000, Portable Welder \$9,000, Clarifier skirting \$50,000, WWTP clarifier wier replacement \$40,000                                                                                                                                        |
| 945,327.00   | include 3% CPI                                                                                                                                                                                                                                                                                           |
| 600,000.00   |                                                                                                                                                                                                                                                                                                          |
| 259,109.00   |                                                                                                                                                                                                                                                                                                          |
| 7,350.00     |                                                                                                                                                                                                                                                                                                          |
| 5,788.00     |                                                                                                                                                                                                                                                                                                          |
|              |                                                                                                                                                                                                                                                                                                          |
| 1,599,078.00 | Buffalo Creek Lift Station \$12,035 engineering, Buffalo Creek Lift Station construction \$976,600 (bidding/construction), Malcom Mosby lift station \$18,000, Visu-Sewer \$17,442.31 Slip Lining, Villas/Lime Kiln lift station pump replacement \$75,000, Collection System Line replacement \$500,000 |
| 3,990,332.00 |                                                                                                                                                                                                                                                                                                          |

### Wastewater Other Sources

|                  |                             |
|------------------|-----------------------------|
| 500-000-3361-000 | Transfer fm WW -Rplcmt Rsrv |
| 500-000-3363-000 | Slip Lining Reserve         |
| 500-000-3306-000 | Transfer fm ARPA            |
| 500-000-3362-000 | Transfer from Other Funds   |

| Amount       | Justification & Supporting Information       |
|--------------|----------------------------------------------|
| 1,538,031.00 |                                              |
| 150,000.00   | \$300,000 every two years for slip lining    |
| 222,635.00   | ARPA transfer for Buffalo Creek Lift Station |
|              |                                              |

### Wastewater Other Uses

|                  |                               |
|------------------|-------------------------------|
| 500-000-3261-000 | Transfer to WW Rplcmt Reserve |
| 500-000-3263-000 | Slip Lining Reserve           |
| 500-000-3292-000 | Transfer to other funds       |

| Amount       | Justification & Supporting Information    |
|--------------|-------------------------------------------|
| 1,538,031.00 |                                           |
| 150,000.00   | \$300,000 every two years for slip lining |
|              |                                           |

|          |
|----------|
| TIF Debt |
|----------|

| Account                             | Account Name                 | FY2023<br>Actual      | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------|------------------------------|-----------------------|------------------|------------------------------|-------------------------------|------------------------------|
| TIF Debt Revenues                   |                              |                       |                  |                              |                               |                              |
| 500-640-3990-641                    | Transfer for TIF 2012        | 10,604.76             | -                | -                            | -                             | -                            |
| <b>Total TIF Debt Revenues</b>      |                              | <b>\$ 10,604.76</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| TIF Debt Expenditures               |                              |                       |                  |                              |                               |                              |
| 500-212-5920-212                    | Interest Expense 2012A       | 1,215.66              | -                | -                            | -                             | -                            |
| 500-212-5930-212                    | Admin. Fee 2012 A            | -                     | -                | -                            | -                             | -                            |
|                                     |                              | -                     | -                | -                            |                               |                              |
| <b>Total TIF Debt Expenditures</b>  |                              | <b>\$ 1,215.66</b>    | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| TIF Debt Other Sources              |                              |                       |                  |                              |                               |                              |
| <b>Total TIF Debt Other Sources</b> |                              | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| TIF Debt Other Uses                 |                              |                       |                  |                              |                               |                              |
| 500-000-2472-000                    | Principal Payment 2012 WW De | (28,593.74)           | -                | -                            | -                             | -                            |
| <b>Total TIF Debt Other Uses</b>    |                              | <b>\$ (28,593.74)</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance              |                              | 37,982.84             | -                | -                            | -                             | -                            |

|                       |
|-----------------------|
| Water/Wastewater Debt |
|-----------------------|

| Account                                          | Account Name                    | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|--------------------------------------------------|---------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Water/Wastewater Debt Revenues                   |                                 |                      |                      |                              |                               |                              |
| <b>Total Water/Wastewater Debt Revenues</b>      |                                 | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Water/Wastewater Debt Expenditures               |                                 |                      |                      |                              |                               |                              |
| 500-640-5920-646                                 | Interest on 2009B               | 35,580.90            | 32,247.00            | 21,677.91                    | 28,903.88                     | 27,720.00                    |
| 500-640-5930-646                                 | Paying Agent Fee - 2009B        | 13,244.76            | 10,678.00            | 6,072.88                     | 8,097.17                      | 9,179.00                     |
| 500-640-5920-648                                 | 2011 Water Impr Interest Exp.   | 76,364.82            | 74,376.00            | 51,149.82                    | 68,199.76                     | 66,977.00                    |
| 500-640-5930-648                                 | 2011 Water Impr. Adm Fees       | 28,506.93            | 24,628.00            | 13,307.66                    | 17,743.55                     | 22,178.00                    |
| <b>Total Water/Wastewater Debt Expenditures</b>  |                                 | <b>\$ 153,697.41</b> | <b>\$ 141,929.00</b> | <b>\$ 92,208.27</b>          | <b>\$ 122,944.36</b>          | <b>\$ 126,054.00</b>         |
| Water/Wastewater Debt Other Sources              |                                 |                      |                      |                              |                               |                              |
| <b>Total Water/Wastewater Debt Other Sources</b> |                                 | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Water/Wastewater Debt Other Uses                 |                                 |                      |                      |                              |                               |                              |
| 500-000-2468-000                                 | Principal Payment 2009B WW Debt | 292,600.00           | 288,400.00           | 224,100.00                   | 288,400.00                    | 304,100.00                   |
| 500-000-2471-000                                 | Principal Payment 2011 WW Debt  | 474,000.00           | 466,000.00           | 363,500.00                   | 466,000.00                    | 497,000.00                   |
| <b>Total Water/Wastewater Debt Other Uses</b>    |                                 | <b>\$ 766,600.00</b> | <b>\$ 754,400.00</b> | <b>\$ 587,600.00</b>         | <b>\$ 754,400.00</b>          | <b>\$ 801,100.00</b>         |
| Change in Fund Balance                           |                                 | (920,297.41)         | (896,329.00)         | (679,808.27)                 | (877,344.36)                  | (927,154.00)                 |

City of Neosho  
FY2025  
Transfer Schedule

| Transfer In      | Department                   | Account                                                     | Amount       |
|------------------|------------------------------|-------------------------------------------------------------|--------------|
| 100-000-3305-120 | Police Department            | Trns from Public Safety Fund                                | 1,237,547.00 |
| 100-000-3305-144 | Emergency Management         | Trns from Public Safety Fund                                | 20,144.00    |
| 10-000-3305-110  | General Admin                | Transfer from Public Safety                                 | 20,000.00    |
| 130-000-3305-000 | Fire Department              | Transfer fm Public Safety Fund                              | 866,763.00   |
| 170-000-3306-000 | Drainage                     | Transfer from ARPA                                          | -            |
| 100-000-3310-000 | General Admin                | Transfer fm Hotel/Motel Admin                               | 2,860.00     |
| 214-000-3314-000 | 2014 Series DS               | Transfer from Other Funds                                   | 0            |
| 214-000-3320-000 | 2014 Series DS               | Transferto                                                  | 0            |
| 100-000-3316-000 | Airport                      | Transfer fm Street >Land                                    | 5,660.00     |
| 212-000-3320-000 | 2012 Series DS               | Transfer fm Other Funds                                     | -            |
| 221-000-3321-000 | 2021 Series Spc Obl          | Transfer in 2021 Series DS                                  | 507,002.00   |
| 120-000-3324-000 | Police Grants                | Transfer from Police Dept                                   | 2,310.00     |
| 130-000-3330-000 | Fire Department              | Transfer fm General                                         | 654,927.00   |
| 450-000-3340-000 | Golf Course                  | Transfer fm General                                         | 100,000.00   |
| 450-000-3341-000 | Golf Course                  | Transfer fm Parks -Mtce                                     | -            |
| 450-000-3342-000 | Golf Course                  | Transfer fm EconDev CapImp Dbt                              | 441,738.00   |
| 180-000-3343-000 | Parks & Recreation           | Transfer from Other Funds                                   | 676,850.00   |
| 100-000-3355-000 | Events & Communication       | Transfer to Gen Celebrate                                   | 7,500.00     |
| 100-000-3356-000 | Events & Communication       | Transfer to Gen Fall Festival                               | 15,000.00    |
| 100-000-3357-000 | Events & Communication       | Transfer to Gen Bluegrass BBQ                               | -            |
| 213-000-3373-000 | 2013 Series DS               | Transfer from Street Bridge                                 | -            |
| 216-000-3376-000 | 2016 Series DS               | Transfer in from Other Funds                                | 241,738.00   |
| 300-000-3385-112 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-General Admin     | 470,000.00   |
| 300-000-3385-111 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-City Clerk        | 6,500.00     |
| 300-000-3385-115 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Development Serv  | -            |
| 300-000-3385-118 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Recycle Center    | 65,261.00    |
| 300-000-3385-120 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Police Departmen  | 80,000.00    |
| 300-000-3385-160 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Airport           | 754,000.00   |
| 300-000-3385-130 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Fire Department   | 484,985.00   |
| 300-000-3385-170 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Drainage          | 7,703,160.00 |
| 300-000-3385-175 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Senior Center     | 25,000.00    |
| 300-000-3385-180 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Parks & Recreatio | 987,652.00   |
| 300-000-3385-195 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Auditorium        | 85,000.00    |
| 300-000-3385-450 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Golf Course       | 300,000.00   |
| 300-000-3385-800 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Street Department | 229,500.00   |
| 300-000-3385-204 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-IOOF Cemetery     | 39,000.00    |
| 175-000-NEW-000  | Senior Center                | Senior Center Capital Reserve                               | -            |
| 180-000-3390-000 | Recreation                   | Transfer from Parks Sales Tax                               | 66,530.00    |
| 500-000-3306-000 | Water/Wastewater             | Transfer from ARPA                                          | 222,635.00   |
| 500-000-3364-000 | Water/Wastewater             | Trns to Main Replacement                                    | 250,000.00   |
| 500-000-3361-000 | Water/Wastewater             | Transfer fm WW -Rplcmnt Rsrv                                | 1,538,031.00 |
| 500-000-3363-000 | Water/Wastewater             | Slip Lining Reserve                                         | 150,000.00   |
| 500-000-3353-000 | Water/Wastewater             | Transfer fm Water -Rplcmnt Rsrv                             | 1,179,198.00 |

|                          |  |  |                      |
|--------------------------|--|--|----------------------|
| <b>Total Transfer In</b> |  |  | <b>19,436,491.00</b> |
|--------------------------|--|--|----------------------|

| Transfer Out              | Department                   | Account                                   | Amount               |
|---------------------------|------------------------------|-------------------------------------------|----------------------|
| 130-000-3200-000          | Fire Department              | Trnsfer to Public Safety                  | -                    |
| 100-000-3202-000          | General Admin                | Transfer to Other Funds                   | -                    |
| 100-000-3203-000          | General Admin                | Transfer to Senior Center                 | -                    |
| 100-000-3205-000          | Public Safety                | Transfer to Public Safety Dept            | 866,763.00           |
| 100-000-3205-120          | Public Safety                | Trns to Police Department                 | 1,237,547.00         |
| 100-000-3205-144          | Public Safety                | Trns to Emergency Mgmt                    | 20,144.00            |
| 100-000-3205-110          | Public Safety                | Trns to General                           | 20,000.00            |
| 126-000-3205-120          | DARE                         | Transfer to Police                        | -                    |
| 100-000-3206-170          | General Admin                | Transfer to Drainage                      | -                    |
| 100-000-3206-000          | General Admin                | Transfer to ARPA                          | 222,635.00           |
| 310-000-3210-000          | Hotel/Motel                  | Tran to General Adm 3% Adm Cst            | 2,860.00             |
| 175-000-3214-000          | Senior Center                | Transfer to 2014 Series COP               | -                    |
| 195-000-3214-000          | Auditorium                   | Transfer to 2014 COP                      | -                    |
| 800-000-3216-000          | Street Department            | Transfer to Airport -Land                 | 5,660.00             |
| 800-000-3220-000          | Street Department            | Transfer to 2012A&B Fund                  | -                    |
| 175-000-3221-000          | Senior Center                | Transfer to 2021 Series DS                | 53,680.00            |
| 195-000-3221-000          | Auditorium                   | Transfer to 2021 Series DS                | 213,718.00           |
| 900-000-3221-000          | Street/Bridge                | Transfer to 2021 Series DS                | 239,604.00           |
| 100-000-3224-000          | Police Department            | Transfer to Police Grants                 | 2,310.00             |
| 100-000-3230-000          | General Admin                | Transfer to Fire fm General               | 654,927.00           |
| 100-000-3240-000          | General Admin                | Transfer to GC fm General                 | 100,000.00           |
| 180-000-3241-000          | Parks & Recreation           | Transfer to GC fm Parks -Mtce             | -                    |
| 300-000-3242-000          | Capital Improvement/Purchase | Transfer to Golf Cap Imp Debt             | 441,738.00           |
| 100-000-3243-000          | General Admin                | Transfer to Parks Department              | 676,850.00           |
| 310-000-3255-000          | Hotel/Motel                  | Transfer to -Celebrate                    | 7,500.00             |
| 310-000-3256-000          | Hotel/Motel                  | Tran to -Fall Festival                    | 15,000.00            |
| 310-000-3257-000          | Hotel/Motel                  | Transfer to-Bluegrass                     | -                    |
| 170-000-3276-000          | Drainage Department          | Transfer to 2016 DS                       | -                    |
| 450-000-3276-000          | Golf Course                  | Transfer to 2016 DS                       | 241,738.00           |
| 800-000-3276-000          | Street Department            | Transfer to 2016 DS                       | -                    |
| 100-000-3285-112          | General Admin                | Transfer to Capital Improvement/Purchases | 470,000.00           |
| 100-000-3285-111          | City Clerk                   | Transfer to Capital Improvement/Purchases | 6,500.00             |
| 100-000-3285-115          | Development Services         | Transfer to Capital Improvement/Purchases | -                    |
| 100-000-3285-118          | Recycle Center               | Transfer to Capital Improvement/Purchases | 65,261.00            |
| 100-000-3285-120          | Police Department            | Transfer to Capital Improvement/Purchases | 80,000.00            |
| 100-000-3285-160          | Airport                      | Transfer to Capital Improvement/Purchases | 754,000.00           |
| 100-000-3285-204          | IOOF Cemetery                | Transfer to Capital Improvement/Purchases | 39,000.00            |
| 100-000-3285-680          | CDBG                         | Transfer to CDBG                          | -                    |
| 130-000-3285-000          | Fire Department              | Transfer to Capital Improvement/Purchases | 484,985.00           |
| 170-000-3285-000          | Drainage Department          | Transfer to Capital Improvement/Purchases | 7,703,160.00         |
| 175-000-3285-000          | Senior Center                | Transfer to Capital Improvement/Purchases | 25,000.00            |
| 180-000-3285-000          | Parks & Recreation           | Transfer to Capital Improvement/Purchases | 987,652.00           |
| 195-000-3285-000          | Auditorium                   | Transfer to Capital Improvement/Purchases | 85,000.00            |
| 450-000-3285-000          | Golf Course                  | Transfer to Capital Improvement/Purchases | 300,000.00           |
| 800-000-3285-000          | Street Department            | Trns to Capital Improvement               | 229,500.00           |
| 180-000-3290-000          | Parks & Recreation           | Transfer to Parks Recreation              | 66,530.00            |
| 175-000-NEW-000           | Senior Center                | Transfer to Capital Reserve               | -                    |
| 500-000-3264-000          | Water/Wastewater             | Trns to Main Replacement                  | 250,000.00           |
| 500-000-3261-000          | Water/Wastewater             | Transfer fm WW -Rplcmt Rsrv               | 1,538,031.00         |
| 500-000-3263-000          | Water/Wastewater             | Slip Lining Reserve                       | 150,000.00           |
| 500-000-3253-000          | Water/Wastewater             | Transfer fm Water -Rplcmt Rsrv            | 1,179,198.00         |
| <b>Total Transfer Out</b> |                              |                                           | <b>19,436,491.00</b> |
|                           |                              |                                           | 0.00                 |

City of Neosho  
October 1, 2024 and September 30, 2025  
Debt Balances by Fund Summary

| Principal Balance                 |                        |           |                     |                          |                        |
|-----------------------------------|------------------------|-----------|---------------------|--------------------------|------------------------|
|                                   | "October 1"            |           | "September 30"      | Net Change               | Final Payment          |
| Street/Bridge Sales Tax Fund      |                        |           |                     |                          |                        |
| 2021 Special Obligation Bonds     | \$ 682,656.95          | \$        | 457,706.95          | \$ (224,950.00)          | 5/1/2027               |
| 2013 SplObl                       | \$ -                   | \$        | -                   | \$ -                     | Refinanced 2021 Series |
| 900                               | \$ 682,656.95          | \$        | 457,706.95          | \$ (224,950.00)          |                        |
| Golf Course Fund                  |                        |           |                     |                          |                        |
| 2016A/B COPS (2006 Refinanced)    | \$ 1,655,000.00        | \$        | 1,465,000.00        | \$ (190,000.00)          | 5/1/2031               |
| 450                               | \$ 1,655,000.00        | \$        | 1,465,000.00        | \$ (190,000.00)          |                        |
| Water - Wastewater                |                        |           |                     |                          |                        |
| 2009 SRF - ARRA (Wastewater)      | \$ 1,911,400.00        | \$        | 1,607,300.00        | \$ (304,100.00)          | 7/1/2030               |
| 2011 SRF - Drinking Water (Water) | \$ 4,559,000.00        | \$        | 4,062,000.00        | \$ (497,000.00)          | 1/1/2033               |
| 500                               | \$ 6,470,400.00        | \$        | 5,669,300.00        | \$ (801,100.00)          |                        |
| Auditorium Sales Tax Fund         |                        |           |                     |                          |                        |
| 2014 A COPS                       | \$ -                   | \$        | -                   | \$ -                     | Refinanced 2021 Series |
| 2021 Special Obligation Bonds     | \$ 433,874.44          | \$        | 229,834.44          | \$ (204,040.00)          | 5/1/2027               |
| 195                               | \$ 433,874.44          | \$        | 229,834.44          | \$ (204,040.00)          |                        |
| Senior Center                     |                        |           |                     |                          |                        |
| 2021 Special Obligation Bonds     | \$ 108,468.61          | \$        | 57,458.61           | \$ (51,010.00)           | 5/1/2027               |
| 2014 A COPS                       | \$ -                   | \$        | -                   | \$ -                     | Refinanced 2021 Series |
| 175                               | \$ 108,468.61          | \$        | 57,458.61           | \$ (51,010.00)           |                        |
| <b>Grand Total of City Debt</b>   |                        |           |                     |                          |                        |
|                                   | <b>\$ 9,350,400.00</b> | <b>\$</b> | <b>7,879,300.00</b> | <b>\$ (1,471,100.00)</b> |                        |

**Increases in Total Debt \$ -**  
**Decreases in Total Debt \$ 1,471,100.00**

| Issuance | Fund               | FY2024<br>Principal Payments | 9/30/2024<br>Ending Balance | Final Payment |
|----------|--------------------|------------------------------|-----------------------------|---------------|
|          | 2009 Wastewater    | 304,100.00                   | 1,607,300.00                | 7/1/2030      |
|          | 2011 Water         | 497,000.00                   | 4,062,000.00                | 1/1/2033      |
|          | 2021 Street/Bridge | 224,950.00                   | 457,706.95                  | 5/1/2027      |
|          | 2021 Senior Center | 51,010.00                    | 57,458.61                   | 5/1/2027      |
|          | 2021 Auditorium    | 204,040.00                   | 229,834.44                  | 5/1/2027      |
|          | 2016 Golf Course   | 190,000.00                   | 1,465,000.00                | 5/1/2031      |
|          | Total              | 1,471,100.00                 | 7,879,300.00                |               |



## CITY 5-YEAR DEBT SCHEDULE SUMMARY

| <u>Fund</u>                             | Balance<br>9/30/2024   | FY25<br>P&I            | Balance<br>9/30/2025   | FY26<br>P&I            | Balance<br>9/30/2026   | FY27<br>P&I            | Balance<br>9/30/2027   | FY28<br>P&I            | Balance<br>9/30/2028   |                 |
|-----------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|
| <b>Auditorium Sales Tax</b>             |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2014 A COPS                             |                        |                        |                        |                        |                        |                        |                        |                        |                        | Refinanced 2021 |
| 2021 Series Special Obligation Bonds    | \$ 449,068.60          | \$ 212,717.48          | \$ 236,351.12          | \$ 224,636.68          | \$ 11,714.44           | \$ 11,714.44           | \$ (0.00)              |                        |                        | Pay Off in 2027 |
| <b>Golf Fund</b>                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2016 COPS (2006 Refinanced)             | \$ 1,872,837.50        | \$ 236,987.50          | \$ 1,635,850.00        | \$ 227,475.00          | \$ 1,408,375.00        | \$ 237,387.50          | \$ 1,170,987.50        | \$ 236,887.50          | \$ 934,100.00          | Pay Off in 2031 |
| <b>Senior Center</b>                    |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2014 A COPS                             |                        |                        |                        |                        |                        |                        |                        |                        |                        | Refinanced 2021 |
| 2021 Series Special Obligation Bonds    | \$ 112,267.17          | \$ 53,179.38           | \$ 59,087.79           | \$ 56,159.18           | \$ 2,928.61            | \$ 2,928.61            | \$ 0.00                |                        |                        | Pay Off in 2027 |
| <b>Street Sales Tax Fund</b>            |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2016 COPS (2006 Refinanced)             |                        |                        |                        |                        |                        |                        |                        |                        |                        | Pay Off 2020    |
| 2012A/B COPS (2003 Refinanced)          |                        |                        |                        |                        |                        |                        |                        |                        |                        | Paid Off 2023   |
| <b>Street/Bridge Sales Tax Fund</b>     |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2013 Spc Obl Bond (2007B Refinanced)    | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | Refinanced 2021 |
| 2021 Series Special Obligation Bonds    | \$ 707,865.23          | \$ 238,603.14          | \$ 469,262.09          | \$ 239,104.14          | \$ 230,157.95          | \$ 230,157.95          | \$ -                   |                        |                        | Pay Off in 2027 |
| <b>Total Government Funds Debt</b>      | <b>\$ 3,142,038.50</b> | <b>\$ 741,487.50</b>   | <b>\$ 2,400,551.00</b> | <b>\$ 747,375.00</b>   | <b>\$ 1,653,176.00</b> | <b>\$ 482,188.50</b>   | <b>\$ 1,170,987.50</b> | <b>\$ 236,887.50</b>   | <b>\$ 6,316,576.33</b> |                 |
| <b>Water - Wastewater</b>               |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2009 SRF - ARRA (Wastewater)            | \$ 1,920,341.46        | \$ 331,819.83          | \$ 1,588,521.63        | \$ 333,534.64          | \$ 1,254,986.99        | \$ 334,856.84          | \$ 920,130.15          | \$ 336,236.92          | \$ 583,893.23          | Pay Off 2030    |
| 2011 SRF - Drinking Water (Water)       | \$ 4,598,705.99        | \$ 563,976.05          | \$ 4,034,729.94        | \$ 565,828.65          | \$ 3,468,901.29        | \$ 568,172.95          | \$ 2,900,728.34        | \$ 571,362.48          | \$ 2,329,365.86        | Pay Off 2033    |
| 2012A COPS TIF(2003 Refinanced)         | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ 1,406.25            | \$ (1,406.25)          | Pay Off 2023    |
| <b>Total Water-Wastewater Fund Debt</b> | <b>\$ 6,519,047.45</b> | <b>\$ 895,795.88</b>   | <b>\$ 5,623,251.57</b> | <b>\$ 899,363.29</b>   | <b>\$ 4,723,888.28</b> | <b>\$ 903,029.79</b>   | <b>\$ 3,820,858.49</b> | <b>\$ 909,005.65</b>   | <b>\$ 2,911,852.84</b> |                 |
| <b>Totals All City Debt</b>             | <b>\$ 9,661,085.95</b> | <b>\$ 1,637,283.38</b> | <b>\$ 8,023,802.57</b> | <b>\$ 1,646,738.29</b> | <b>\$ 6,377,064.28</b> | <b>\$ 1,385,218.29</b> | <b>\$ 4,991,845.99</b> | <b>\$ 1,145,893.15</b> | <b>\$ 9,228,429.17</b> |                 |

| 2009 ARRA -- Wastewater Improvement (DNR SRF) |                   |               |                 |              |               |                   |
|-----------------------------------------------|-------------------|---------------|-----------------|--------------|---------------|-------------------|
| Date                                          | Principal Payment | Interest Rate | Interest Amount | Admin Fee    | Total Payment | Principal Balance |
| 11/10/2009                                    |                   |               |                 |              |               | \$ 5,488,800.00   |
| 7/1/2010                                      | \$ -              | 1.510%        | \$ 53,181.90    | \$ -         | \$ 53,181.90  | \$ 5,488,800.00   |
| 1/1/2011                                      | \$ -              | 1.510%        | \$ 41,440.44    | \$ -         | \$ 41,440.44  | \$ 5,488,800.00   |
| 7/1/2011                                      | \$ 115,500.00     | 1.510%        | \$ 41,440.44    | \$ 13,722.00 | \$ 170,662.44 | \$ 5,373,300.00   |
| 1/1/2012                                      | \$ 117,200.00     | 1.510%        | \$ 40,568.42    | \$ 13,433.25 | \$ 171,201.67 | \$ 5,256,100.00   |
| 7/1/2012                                      | \$ 118,700.00     | 1.510%        | \$ 39,683.56    | \$ 13,140.25 | \$ 171,523.81 | \$ 5,137,400.00   |
| 1/1/2013                                      | \$ 120,000.00     | 1.510%        | \$ 38,787.37    | \$ 12,843.50 | \$ 171,630.87 | \$ 5,017,400.00   |
| 7/1/2013                                      | \$ 121,200.00     | 1.510%        | \$ 37,881.37    | \$ 12,543.50 | \$ 171,624.87 | \$ 4,896,200.00   |
| 1/1/2014                                      | \$ 122,400.00     | 1.510%        | \$ 36,966.31    | \$ 12,240.50 | \$ 171,606.81 | \$ 4,773,800.00   |
| 7/1/2014                                      | \$ 123,500.00     | 1.510%        | \$ 36,042.19    | \$ 11,934.50 | \$ 171,476.69 | \$ 4,650,300.00   |
| 1/1/2015                                      | \$ 124,700.00     | 1.510%        | \$ 35,109.77    | \$ 11,625.75 | \$ 171,435.52 | \$ 4,525,600.00   |
| 7/1/2015                                      | \$ 125,900.00     | 1.510%        | \$ 34,168.28    | \$ 11,314.00 | \$ 171,382.28 | \$ 4,399,700.00   |
| 1/1/2016                                      | \$ 127,200.00     | 1.510%        | \$ 33,217.74    | \$ 10,999.25 | \$ 171,416.99 | \$ 4,272,500.00   |
| 7/1/2016                                      | \$ 128,400.00     | 1.510%        | \$ 32,257.38    | \$ 10,681.25 | \$ 171,338.63 | \$ 4,144,100.00   |
| 1/1/2017                                      | \$ 129,700.00     | 1.510%        | \$ 31,287.96    | \$ 10,360.25 | \$ 171,348.21 | \$ 4,014,400.00   |
| 7/1/2017                                      | \$ 130,900.00     | 1.510%        | \$ 30,308.72    | \$ 10,036.00 | \$ 171,244.72 | \$ 3,883,500.00   |
| 1/1/2018                                      | \$ 132,200.00     | 1.510%        | \$ 29,320.43    | \$ 9,708.75  | \$ 171,229.18 | \$ 3,751,300.00   |
| 7/1/2018                                      | \$ 133,500.00     | 1.510%        | \$ 28,322.32    | \$ 9,378.25  | \$ 171,200.57 | \$ 3,617,800.00   |
| 1/1/2019                                      | \$ 134,800.00     | 1.510%        | \$ 27,314.39    | \$ 9,044.50  | \$ 171,158.89 | \$ 3,483,000.00   |
| 7/1/2019                                      | \$ 136,100.00     | 1.510%        | \$ 26,296.65    | \$ 8,707.50  | \$ 171,104.15 | \$ 3,346,900.00   |
| 1/1/2020                                      | \$ 137,400.00     | 1.510%        | \$ 25,269.10    | \$ 8,367.25  | \$ 171,036.35 | \$ 3,209,500.00   |
| 7/1/2020                                      | \$ 138,700.00     | 1.510%        | \$ 24,231.73    | \$ 8,023.75  | \$ 170,955.48 | \$ 3,070,800.00   |
| 1/1/2021                                      | \$ 140,100.00     | 1.510%        | \$ 23,184.54    | \$ 7,677.00  | \$ 170,961.54 | \$ 2,930,700.00   |
| 7/1/2021                                      | \$ 141,400.00     | 1.510%        | \$ 22,126.79    | \$ 7,326.75  | \$ 170,853.54 | \$ 2,789,300.00   |
| 1/1/2022                                      | \$ 142,800.00     | 1.510%        | \$ 21,059.22    | \$ 6,973.25  | \$ 170,832.47 | \$ 2,646,500.00   |
| 7/1/2022                                      | \$ 144,200.00     | 1.510%        | \$ 19,981.08    | \$ 6,616.25  | \$ 170,797.33 | \$ 2,502,300.00   |
| 1/1/2023                                      | \$ 145,600.00     | 1.510%        | \$ 18,892.37    | \$ 6,255.75  | \$ 170,748.12 | \$ 2,356,700.00   |
| 7/1/2023                                      | \$ 147,000.00     | 1.510%        | \$ 17,793.09    | \$ 5,891.75  | \$ 170,684.84 | \$ 2,209,700.00   |
| 1/1/2024                                      | \$ 148,400.00     | 1.510%        | \$ 16,683.24    | \$ 5,524.25  | \$ 170,607.49 | \$ 2,061,300.00   |
| 7/1/2024                                      | \$ 149,900.00     | 1.510%        | \$ 15,562.82    | \$ 5,153.25  | \$ 170,616.07 | \$ 1,911,400.00   |
| 1/1/2025                                      | \$ 151,300.00     | 1.510%        | \$ 14,431.07    | \$ 4,778.50  | \$ 170,509.57 | \$ 1,760,100.00   |
| 7/1/2025                                      | \$ 152,800.00     | 1.510%        | \$ 13,288.76    | \$ 4,400.25  | \$ 170,489.01 | \$ 1,607,300.00   |
| 1/1/2026                                      | \$ 154,300.00     | 1.510%        | \$ 12,135.12    | \$ 4,018.25  | \$ 170,453.37 | \$ 1,453,000.00   |
| 7/1/2026                                      | \$ 155,800.00     | 1.510%        | \$ 10,970.15    | \$ 3,632.50  | \$ 170,402.65 | \$ 1,297,200.00   |
| 1/1/2027                                      | \$ 157,300.00     | 1.510%        | \$ 9,793.86     | \$ 3,243.00  | \$ 170,336.86 | \$ 1,139,900.00   |
| 7/1/2027                                      | \$ 158,800.00     | 1.510%        | \$ 8,606.25     | \$ 2,849.75  | \$ 170,256.00 | \$ 981,100.00     |
| 1/1/2028                                      | \$ 160,400.00     | 1.510%        | \$ 7,407.31     | \$ 2,452.75  | \$ 170,260.06 | \$ 820,700.00     |
| 7/1/2028                                      | \$ 161,900.00     | 1.510%        | \$ 6,196.29     | \$ 2,051.75  | \$ 170,148.04 | \$ 658,800.00     |
| 1/1/2029                                      | \$ 163,500.00     | 1.510%        | \$ 4,973.94     | \$ 1,647.00  | \$ 170,120.94 | \$ 495,300.00     |
| 7/1/2029                                      | \$ 165,100.00     | 1.510%        | \$ 3,739.52     | \$ 1,238.25  | \$ 170,077.77 | \$ 330,200.00     |
| 1/1/2030                                      | \$ 166,700.00     | 1.510%        | \$ 2,493.01     | \$ 825.50    | \$ 170,018.51 | \$ 163,500.00     |
| 7/1/2030                                      | \$ 163,500.00     | 1.510%        | \$ 1,234.43     | \$ 408.75    | \$ 165,143.18 | \$ -              |

|        |                 |  |               |               |                 |  |
|--------|-----------------|--|---------------|---------------|-----------------|--|
| Totals | \$ 5,488,800.00 |  | \$ 973,649.33 | \$ 291,068.50 | \$ 6,753,517.83 |  |
|--------|-----------------|--|---------------|---------------|-----------------|--|

| 2011 Drinking Water Improvement (DNR SRF) |                   |               |                 |               |                  |                   |
|-------------------------------------------|-------------------|---------------|-----------------|---------------|------------------|-------------------|
| Date                                      | Principal Payment | Interest Rate | Interest Amount | Admin Fee     | Total Payment    | Principal Balance |
| 12/19/2011                                |                   |               |                 |               |                  | \$ 9,425,000.00   |
| 7/1/2012                                  | \$ -              | 1.510%        | \$ 75,507.34    | \$ -          | \$ 75,507.34     | \$ 9,425,000.00   |
| 1/1/2013                                  | \$ -              | 1.510%        | \$ 71,158.75    | \$ -          | \$ 71,158.75     | \$ 9,425,000.00   |
| 7/1/2013                                  | \$ -              | 1.510%        | \$ 71,158.75    | \$ -          | \$ 71,158.75     | \$ 9,425,000.00   |
| 1/1/2014                                  | \$ 199,000.00     | 1.510%        | \$ 71,158.75    | \$ 23,562.50  | \$ 293,721.25    | \$ 9,226,000.00   |
| 7/1/2014                                  | \$ 201,000.00     | 1.510%        | \$ 69,656.30    | \$ 23,065.00  | \$ 293,721.30    | \$ 9,025,000.00   |
| 1/1/2015                                  | \$ 203,000.00     | 1.510%        | \$ 68,138.75    | \$ 22,562.50  | \$ 293,701.25    | \$ 8,822,000.00   |
| 7/1/2015                                  | \$ 205,000.00     | 1.510%        | \$ 66,606.10    | \$ 22,055.00  | \$ 293,661.10    | \$ 8,617,000.00   |
| 1/1/2016                                  | \$ 207,000.00     | 1.510%        | \$ 65,058.35    | \$ 21,542.50  | \$ 293,600.85    | \$ 8,410,000.00   |
| 7/1/2016                                  | \$ 209,000.00     | 1.510%        | \$ 63,495.50    | \$ 21,025.00  | \$ 293,520.50    | \$ 8,201,000.00   |
| 1/1/2017                                  | \$ 211,000.00     | 1.510%        | \$ 61,917.55    | \$ 20,502.50  | \$ 293,420.05    | \$ 7,990,000.00   |
| 7/1/2017                                  | \$ 213,000.00     | 1.510%        | \$ 60,324.50    | \$ 19,975.00  | \$ 293,299.50    | \$ 7,777,000.00   |
| 1/1/2018                                  | \$ 215,000.00     | 1.510%        | \$ 58,716.35    | \$ 19,442.50  | \$ 293,158.85    | \$ 7,562,000.00   |
| 7/1/2018                                  | \$ 217,000.00     | 1.510%        | \$ 57,093.10    | \$ 18,905.00  | \$ 292,998.10    | \$ 7,345,000.00   |
| 1/1/2019                                  | \$ 220,000.00     | 1.510%        | \$ 55,454.75    | \$ 18,362.50  | \$ 293,817.25    | \$ 7,125,000.00   |
| 7/1/2019                                  | \$ 222,000.00     | 1.510%        | \$ 53,793.75    | \$ 17,812.50  | \$ 293,606.25    | \$ 6,903,000.00   |
| 1/1/2020                                  | \$ 224,000.00     | 1.510%        | \$ 52,117.65    | \$ 17,257.50  | \$ 293,375.15    | \$ 6,679,000.00   |
| 7/1/2020                                  | \$ 226,000.00     | 1.510%        | \$ 50,426.45    | \$ 16,697.50  | \$ 293,123.95    | \$ 6,453,000.00   |
| 1/1/2021                                  | \$ 229,000.00     | 1.510%        | \$ 48,720.15    | \$ 16,132.50  | \$ 293,852.65    | \$ 6,224,000.00   |
| 7/1/2021                                  | \$ 231,000.00     | 1.510%        | \$ 46,991.20    | \$ 15,560.00  | \$ 293,551.20    | \$ 5,993,000.00   |
| 1/1/2022                                  | \$ 233,000.00     | 1.510%        | \$ 45,247.15    | \$ 14,982.50  | \$ 293,229.65    | \$ 5,760,000.00   |
| 7/1/2022                                  | \$ 235,000.00     | 1.510%        | \$ 43,488.00    | \$ 14,400.00  | \$ 292,888.00    | \$ 5,525,000.00   |
| 1/1/2023                                  | \$ 238,000.00     | 1.510%        | \$ 41,713.75    | \$ 13,812.50  | \$ 293,526.25    | \$ 5,287,000.00   |
| 7/1/2023                                  | \$ 240,000.00     | 1.510%        | \$ 39,916.85    | \$ 13,217.50  | \$ 293,134.35    | \$ 5,047,000.00   |
| 1/1/2024                                  | \$ 243,000.00     | 1.510%        | \$ 38,104.85    | \$ 12,617.50  | \$ 293,722.35    | \$ 4,804,000.00   |
| 7/1/2024                                  | \$ 245,000.00     | 1.510%        | \$ 36,270.20    | \$ 12,010.00  | \$ 293,280.20    | \$ 4,559,000.00   |
| 1/1/2025                                  | \$ 247,000.00     | 1.510%        | \$ 34,420.45    | \$ 11,397.50  | \$ 292,817.95    | \$ 4,312,000.00   |
| 7/1/2025                                  | \$ 250,000.00     | 1.510%        | \$ 32,555.60    | \$ 10,780.00  | \$ 293,335.60    | \$ 4,062,000.00   |
| 1/1/2026                                  | \$ 252,000.00     | 1.510%        | \$ 30,668.10    | \$ 10,155.00  | \$ 292,823.10    | \$ 3,810,000.00   |
| 7/1/2026                                  | \$ 255,000.00     | 1.510%        | \$ 28,765.50    | \$ 9,525.00   | \$ 293,290.50    | \$ 3,555,000.00   |
| 1/1/2027                                  | \$ 257,000.00     | 1.510%        | \$ 26,840.25    | \$ 8,887.50   | \$ 292,727.75    | \$ 3,298,000.00   |
| 7/1/2027                                  | \$ 260,000.00     | 1.510%        | \$ 24,899.90    | \$ 8,245.00   | \$ 293,144.90    | \$ 3,038,000.00   |
| 1/1/2028                                  | \$ 263,000.00     | 1.510%        | \$ 22,936.90    | \$ 7,595.00   | \$ 293,531.90    | \$ 2,775,000.00   |
| 7/1/2028                                  | \$ 265,000.00     | 1.510%        | \$ 20,951.25    | \$ 6,937.50   | \$ 292,888.75    | \$ 2,510,000.00   |
| 1/1/2029                                  | \$ 268,000.00     | 1.510%        | \$ 18,950.50    | \$ 6,275.00   | \$ 293,225.50    | \$ 2,242,000.00   |
| 7/1/2029                                  | \$ 271,000.00     | 1.510%        | \$ 16,927.10    | \$ 5,605.00   | \$ 293,532.10    | \$ 1,971,000.00   |
| 1/1/2030                                  | \$ 273,000.00     | 1.510%        | \$ 14,881.05    | \$ 4,927.50   | \$ 292,808.55    | \$ 1,698,000.00   |
| 7/1/2030                                  | \$ 276,000.00     | 1.510%        | \$ 12,819.90    | \$ 4,245.00   | \$ 293,064.90    | \$ 1,422,000.00   |
| 1/1/2031                                  | \$ 279,000.00     | 1.510%        | \$ 10,736.10    | \$ 3,555.00   | \$ 293,291.10    | \$ 1,143,000.00   |
| 7/1/2031                                  | \$ 282,000.00     | 1.510%        | \$ 8,629.65     | \$ 2,857.50   | \$ 293,487.15    | \$ 861,000.00     |
| 1/1/2032                                  | \$ 284,000.00     | 1.510%        | \$ 6,500.55     | \$ 2,152.50   | \$ 292,653.05    | \$ 577,000.00     |
| 7/1/2032                                  | \$ 287,000.00     |               | \$ 4,356.35     | \$ 1,442.50   | \$ 292,798.85    | \$ 290,000.00     |
| 1/1/2033                                  | \$ 290,000.00     | 1.510%        | \$ 2,189.50     | \$ 725.00     | \$ 292,914.50    | \$ -              |
| Totals                                    | \$ 9,425,000.00   |               | \$ 1,730,263.49 | \$ 500,807.50 | \$ 11,656,070.99 |                   |

| Series 2012A |                   |               |                 |               |                   |
|--------------|-------------------|---------------|-----------------|---------------|-------------------|
| Date         | Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|              |                   |               |                 |               | \$ 320,000.00     |
| 5/1/2013     |                   |               | \$ 8,156.92     | \$ 8,156.92   | \$ 320,000.00     |
| 5/1/2014     |                   |               | \$ 9,275.00     | \$ 9,275.00   | \$ 320,000.00     |
| 5/1/2015     |                   |               | \$ 9,275.00     | \$ 9,275.00   | \$ 320,000.00     |
| 5/1/2016     | \$ 10,000.00      | 2.125%        | \$ 9,275.00     | \$ 19,275.00  | \$ 310,000.00     |
| 5/1/2017     | \$ 45,000.00      | 2.125%        | \$ 9,062.50     | \$ 54,062.50  | \$ 265,000.00     |
| 5/1/2018     | \$ 45,000.00      | 2.125%        | \$ 8,106.25     | \$ 53,106.25  | \$ 220,000.00     |
| 5/1/2019     | \$ 45,000.00      | 3.250%        | \$ 7,150.00     | \$ 52,150.00  | \$ 175,000.00     |
| 5/1/2020     | \$ 45,000.00      | 3.250%        | \$ 5,687.50     | \$ 50,687.50  | \$ 130,000.00     |
| 5/1/2021     | \$ 50,000.00      | 3.250%        | \$ 4,225.00     | \$ 54,225.00  | \$ 80,000.00      |
| 5/1/2022     | \$ 50,000.00      | 3.250%        | \$ 2,600.00     | \$ 52,600.00  | \$ 30,000.00      |
| 5/1/2023     | \$ 30,000.00      | 3.250%        | \$ 975.00       | \$ 30,975.00  | \$ -              |

|        |               |  |              |               |  |
|--------|---------------|--|--------------|---------------|--|
| Totals | \$ 320,000.00 |  | \$ 73,788.17 | \$ 393,788.17 |  |
|--------|---------------|--|--------------|---------------|--|

| Water-Wastewater Fund (\$305,000 of 2012A) |                   |               |                 |               |                   |
|--------------------------------------------|-------------------|---------------|-----------------|---------------|-------------------|
| Date                                       | Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                                            |                   |               |                 |               | \$ 305,000.00     |
| 5/1/2013                                   |                   |               | \$ 7,774.56     | \$ 7,774.56   | \$ 305,000.00     |
| 5/1/2014                                   |                   |               | \$ 8,840.23     | \$ 8,840.23   | \$ 305,000.00     |
| 5/1/2015                                   |                   |               | \$ 8,840.23     | \$ 8,840.23   | \$ 305,000.00     |
| 5/1/2016                                   | \$ 9,531.25       | 2.125%        | \$ 8,840.23     | \$ 18,371.48  | \$ 295,468.75     |
| 5/1/2017                                   | \$ 42,890.63      | 2.125%        | \$ 8,637.70     | \$ 51,528.32  | \$ 252,578.13     |
| 5/1/2018                                   | \$ 42,890.63      | 2.125%        | \$ 7,726.27     | \$ 50,616.89  | \$ 209,687.50     |
| 5/1/2019                                   | \$ 42,890.63      | 3.250%        | \$ 6,814.84     | \$ 49,705.47  | \$ 166,796.88     |
| 5/1/2020                                   | \$ 42,890.63      | 3.250%        | \$ 5,420.90     | \$ 48,311.52  | \$ 123,906.25     |
| 5/1/2021                                   | \$ 47,656.25      | 3.250%        | \$ 4,026.95     | \$ 51,683.20  | \$ 76,250.00      |
| 5/1/2022                                   | \$ 47,656.25      | 3.250%        | \$ 2,478.13     | \$ 50,134.38  | \$ 28,593.75      |
| 5/1/2023                                   | \$ 28,593.75      | 3.250%        | \$ 929.30       | \$ 29,523.05  | \$ -              |

|        |               |  |  |               |  |
|--------|---------------|--|--|---------------|--|
| Totals | \$ 305,000.00 |  |  | \$ 375,329.35 |  |
|--------|---------------|--|--|---------------|--|

| Series 2012B      |               |                 |               |                   |
|-------------------|---------------|-----------------|---------------|-------------------|
| Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                   |               |                 |               | \$ 410,000.00     |
| \$ 110,000.00     | 2.000%        | \$ 7,211.51     | \$ 117,211.51 | \$ 300,000.00     |
| \$ 115,000.00     | 2.000%        | \$ 6,000.00     | \$ 121,000.00 | \$ 185,000.00     |
| \$ 110,000.00     | 2.000%        | \$ 3,700.00     | \$ 113,700.00 | \$ 75,000.00      |
| \$ 75,000.00      | 2.000%        | \$ 1,500.00     | \$ 76,500.00  | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 410,000.00 |  | \$ 18,411.51 | \$ 428,411.51 |  |
|---------------|--|--------------|---------------|--|

| Economic Development Fund (\$205,000 of 2012B) |               |                 |               |                   |
|------------------------------------------------|---------------|-----------------|---------------|-------------------|
| Principal Payment                              | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                                                |               |                 |               | \$ 205,000.00     |
| \$ 55,000.00                                   | 2.000%        | \$ 3,605.75     | \$ 58,605.75  | \$ 150,000.00     |
| \$ 57,500.00                                   | 2.000%        | \$ 3,000.00     | \$ 60,500.00  | \$ 92,500.00      |
| \$ 55,000.00                                   | 2.000%        | \$ 1,850.00     | \$ 56,850.00  | \$ 37,500.00      |
| \$ 37,500.00                                   | 2.000%        | \$ 750.00       | \$ 38,250.00  | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |

|               |  |             |               |  |
|---------------|--|-------------|---------------|--|
| \$ 205,000.00 |  | \$ 9,205.75 | \$ 214,205.75 |  |
|---------------|--|-------------|---------------|--|

| Combined 2012A and 2012B |               |                 |               |                   |
|--------------------------|---------------|-----------------|---------------|-------------------|
| Principal Payment        | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                          |               |                 |               | \$ 730,000.00     |
| \$ 110,000.00            | 2.000%        | \$ 15,368.42    | \$ 125,368.42 | \$ 620,000.00     |
| \$ 115,000.00            | 2.000%        | \$ 15,275.00    | \$ 130,275.00 | \$ 505,000.00     |
| \$ 110,000.00            | 2.000%        | \$ 12,975.00    | \$ 122,975.00 | \$ 395,000.00     |
| \$ 85,000.00             | 2.125%/2%     | \$ 10,775.00    | \$ 95,775.00  | \$ 310,000.00     |
| \$ 45,000.00             | 2.125%        | \$ 9,062.50     | \$ 54,062.50  | \$ 265,000.00     |
| \$ 45,000.00             | 2.125%        | \$ 8,106.25     | \$ 53,106.25  | \$ 220,000.00     |
| \$ 45,000.00             | 3.250%        | \$ 7,150.00     | \$ 52,150.00  | \$ 175,000.00     |
| \$ 45,000.00             | 3.250%        | \$ 5,687.50     | \$ 50,687.50  | \$ 130,000.00     |
| \$ 50,000.00             | 3.250%        | \$ 4,225.00     | \$ 54,225.00  | \$ 80,000.00      |
| \$ 50,000.00             | 3.250%        | \$ 2,600.00     | \$ 52,600.00  | \$ 30,000.00      |
| \$ 30,000.00             | 3.250%        | \$ 975.00       | \$ 30,975.00  | \$ -              |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 730,000.00 |  | \$ 92,199.67 | \$ 822,199.67 |  |
|---------------|--|--------------|---------------|--|

| Street Fund (\$15,000 of 2012A; \$205 of 2012B) |               |                 |               |                   |
|-------------------------------------------------|---------------|-----------------|---------------|-------------------|
| Principal Payment                               | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                                                 |               |                 |               | \$ 220,000.00     |
| \$ 55,000.00                                    | 2.000%        | \$ 3,988.11     | \$ 58,988.11  | \$ 165,000.00     |
| \$ 57,500.00                                    | 2.000%        | \$ 3,434.77     | \$ 60,934.77  | \$ 107,500.00     |
| \$ 55,000.00                                    | 2.000%        | \$ 2,284.77     | \$ 57,284.77  | \$ 52,500.00      |
| \$ 37,968.75                                    | 2.125%/2%     | \$ 1,184.77     | \$ 39,153.52  | \$ 14,531.25      |
| \$ 2,109.38                                     | 2.125%        | \$ 424.80       | \$ 2,534.18   | \$ 12,421.88      |
| \$ 2,109.38                                     | 2.125%        | \$ 379.98       | \$ 2,489.36   | \$ 10,312.50      |
| \$ 2,109.38                                     | 3.250%        | \$ 335.16       | \$ 2,444.53   | \$ 8,203.13       |
| \$ 2,109.38                                     | 3.250%        | \$ 266.60       | \$ 2,375.98   | \$ 6,093.75       |
| \$ 2,343.75                                     | 3.250%        | \$ 198.05       | \$ 2,541.80   | \$ 3,750.00       |
| \$ 2,343.75                                     | 3.250%        | \$ 121.88       | \$ 2,465.63   | \$ 1,406.25       |
| \$ 1,406.25                                     | 3.250%        | \$ 45.70        | \$ 1,451.95   | \$ -              |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 220,000.00 |  | \$ 12,664.57 | \$ 232,664.57 |  |
|---------------|--|--------------|---------------|--|

City of Neosho  
2016A COP Payment Schedule by Fund

| Combined Series 2016 |                   |               |                 |                 |                   |
|----------------------|-------------------|---------------|-----------------|-----------------|-------------------|
| Date                 | Principal Payment | Interest Rate | Interest Amount | Total Payment   | Principal Balance |
| 5/1/2016             | \$ -              |               |                 | \$ -            |                   |
| 11/1/2016            | \$ -              |               | \$ 78,728.62    | \$ 78,728.62    | \$ 4,040,000.00   |
| 5/1/2017             | \$ 325,000.00     | 2.000%        | \$ 53,275.00    | \$ 378,275.00   | \$ 3,715,000.00   |
| 11/1/2017            | \$ -              |               | \$ 50,025.00    | \$ 50,025.00    | \$ 3,715,000.00   |
| 5/1/2018             | \$ 375,000.00     | 2.000%        | \$ 50,025.00    | \$ 425,025.00   | \$ 3,340,000.00   |
| 11/1/2018            | \$ -              |               | \$ 46,275.00    | \$ 46,275.00    | \$ 3,340,000.00   |
| 5/1/2019             | \$ 380,000.00     | 2.000%        | \$ 46,275.00    | \$ 426,275.00   | \$ 2,960,000.00   |
| 11/1/2019            | \$ -              |               | \$ 42,475.00    | \$ 42,475.00    | \$ 2,960,000.00   |
| 5/1/2020             | \$ 500,000.00     | 3.000%        | \$ 42,475.00    | \$ 542,475.00   | \$ 2,460,000.00   |
| 11/1/2020            | \$ -              |               | \$ 34,975.00    | \$ 34,975.00    | \$ 2,460,000.00   |
| 5/1/2021             | \$ 205,000.00     | 3.000%        | \$ 34,975.00    | \$ 239,975.00   | \$ 2,255,000.00   |
| 11/1/2021            | \$ -              |               | \$ 31,900.00    | \$ 31,900.00    | \$ 2,255,000.00   |
| 5/1/2022             | \$ 220,000.00     | 3.000%        | \$ 31,900.00    | \$ 251,900.00   | \$ 2,035,000.00   |
| 11/1/2022            | \$ -              |               | \$ 28,600.00    | \$ 28,600.00    | \$ 2,035,000.00   |
| 5/1/2023             | \$ 190,000.00     | 3.000%        | \$ 28,600.00    | \$ 218,600.00   | \$ 1,845,000.00   |
| 11/1/2023            | \$ -              |               | \$ 25,750.00    | \$ 25,750.00    | \$ 1,845,000.00   |
| 5/1/2024             | \$ 190,000.00     | 2.375%        | \$ 25,750.00    | \$ 215,750.00   | \$ 1,655,000.00   |
| 11/1/2024            | \$ -              |               | \$ 23,493.75    | \$ 23,493.75    | \$ 1,655,000.00   |
| 5/1/2025             | \$ 190,000.00     | 2.375%        | \$ 23,493.75    | \$ 213,493.75   | \$ 1,465,000.00   |
| 11/1/2025            | \$ -              |               | \$ 21,237.50    | \$ 21,237.50    | \$ 1,465,000.00   |
| 5/1/2026             | \$ 185,000.00     | 2.750%        | \$ 21,237.50    | \$ 206,237.50   | \$ 1,280,000.00   |
| 11/1/2026            | \$ -              |               | \$ 18,693.75    | \$ 18,693.75    | \$ 1,280,000.00   |
| 5/1/2027             | \$ 200,000.00     | 2.750%        | \$ 18,693.75    | \$ 218,693.75   | \$ 1,080,000.00   |
| 11/1/2027            | \$ -              |               | \$ 15,943.75    | \$ 15,943.75    | \$ 1,080,000.00   |
| 5/1/2028             | \$ 205,000.00     | 2.750%        | \$ 15,943.75    | \$ 220,943.75   | \$ 875,000.00     |
| 11/1/2028            | \$ -              |               | \$ 13,125.00    | \$ 13,125.00    | \$ 875,000.00     |
| 5/1/2029             | \$ 215,000.00     | 3.000%        | \$ 13,125.00    | \$ 228,125.00   | \$ 660,000.00     |
| 11/1/2029            | \$ -              |               | \$ 9,900.00     | \$ 9,900.00     | \$ 660,000.00     |
| 5/1/2030             | \$ 225,000.00     | 3.000%        | \$ 9,900.00     | \$ 234,900.00   | \$ 435,000.00     |
| 11/1/2030            | \$ -              |               | \$ 6,525.00     | \$ 6,525.00     | \$ 435,000.00     |
| 5/1/2031             | \$ 435,000.00     | 3.000%        | \$ 6,525.00     | \$ 441,525.00   | \$ -              |
| Grand Totals         | \$ 4,040,000.00   |               | \$ 869,841.12   | \$ 4,909,841.12 |                   |

| Street 2016A |                   |                 |               |                   |
|--------------|-------------------|-----------------|---------------|-------------------|
| Date         | Principal Payment | Interest Amount | Total Payment | Principal Balance |
| 5/1/2016     | \$ -              |                 | \$ -          |                   |
| 11/1/2016    | \$ -              | \$ 7,943.06     | \$ 7,943.06   | \$ 445,000.00     |
| 5/1/2017     | \$ 80,000.00      | \$ 5,375.00     | \$ 85,375.00  | \$ 365,000.00     |
| 11/1/2017    | \$ -              | \$ 4,575.00     | \$ 4,575.00   | \$ 365,000.00     |
| 5/1/2018     | \$ 90,000.00      | \$ 4,575.00     | \$ 94,575.00  | \$ 275,000.00     |
| 11/1/2018    | \$ -              | \$ 3,675.00     | \$ 3,675.00   | \$ 275,000.00     |
| 5/1/2019     | \$ 90,000.00      | \$ 3,675.00     | \$ 93,675.00  | \$ 185,000.00     |
| 11/1/2019    | \$ -              | \$ 2,775.00     | \$ 2,775.00   | \$ 185,000.00     |
| 5/1/2020     | \$ 185,000.00     | \$ 2,775.00     | \$ 187,775.00 | \$ -              |
| Totals       | \$ 445,000.00     | \$ 35,368.06    | \$ 480,368.06 |                   |

City of Neosho  
2016A COP Payment Schedule by Fund

| Drainage 2016A |                   |                 |               |                   |
|----------------|-------------------|-----------------|---------------|-------------------|
| Date           | Principal Payment | Interest Amount | Total Payment | Principal Balance |
| 5/1/2016       | \$ -              | \$ -            | \$ -          | \$ 445,000.00     |
| 11/1/2016      | \$ -              | \$ 7,943.06     | \$ 7,943.06   | \$ 445,000.00     |
| 5/1/2017       | \$ 80,000.00      | \$ 5,375.00     | \$ 85,375.00  | \$ 365,000.00     |
| 11/1/2017      | \$ -              | \$ 4,575.00     | \$ 4,575.00   | \$ 365,000.00     |
| 5/1/2018       | \$ 90,000.00      | \$ 4,575.00     | \$ 94,575.00  | \$ 275,000.00     |
| 11/1/2018      | \$ -              | \$ 3,675.00     | \$ 3,675.00   | \$ 275,000.00     |
| 5/1/2019       | \$ 90,000.00      | \$ 3,675.00     | \$ 93,675.00  | \$ 185,000.00     |
| 11/1/2019      | \$ -              | \$ 2,775.00     | \$ 2,775.00   | \$ 185,000.00     |
| 5/1/2020       | \$ 185,000.00     | \$ 2,775.00     | \$ 187,775.00 | \$ -              |
| Totals         | \$ 445,000.00     | \$ 35,368.06    | \$ 480,368.06 |                   |

| Golf Course 2016A |                   |                 |                 |                   |
|-------------------|-------------------|-----------------|-----------------|-------------------|
| Date              | Principal Payment | Interest Amount | Total Payment   | Principal Balance |
| 5/16/2016         | \$ -              |                 | \$ -            |                   |
| 11/1/2016         | \$ -              | \$ 62,842.50    | \$ 62,842.50    | \$ 3,150,000.00   |
| 5/1/2017          | \$ 165,000.00     | \$ 42,525.00    | \$ 207,525.00   | \$ 2,985,000.00   |
| 11/1/2017         | \$ -              | \$ 40,875.00    | \$ 40,875.00    | \$ 2,985,000.00   |
| 5/1/2018          | \$ 195,000.00     | \$ 40,875.00    | \$ 235,875.00   | \$ 2,790,000.00   |
| 11/1/2018         | \$ -              | \$ 38,925.00    | \$ 38,925.00    | \$ 2,790,000.00   |
| 5/1/2019          | \$ 200,000.00     | \$ 38,925.00    | \$ 238,925.00   | \$ 2,590,000.00   |
| 11/1/2019         | \$ -              | \$ 36,925.00    | \$ 36,925.00    | \$ 2,590,000.00   |
| 5/1/2020          | \$ 130,000.00     | \$ 36,925.00    | \$ 166,925.00   | \$ 2,460,000.00   |
| 11/1/2020         | \$ -              | \$ 34,975.00    | \$ 34,975.00    | \$ 2,460,000.00   |
| 5/1/2021          | \$ 205,000.00     | \$ 34,975.00    | \$ 239,975.00   | \$ 2,255,000.00   |
| 11/1/2021         | \$ -              | \$ 31,900.00    | \$ 31,900.00    | \$ 2,255,000.00   |
| 5/1/2022          | \$ 220,000.00     | \$ 31,900.00    | \$ 251,900.00   | \$ 2,035,000.00   |
| 11/1/2022         | \$ -              | \$ 28,600.00    | \$ 28,600.00    | \$ 2,035,000.00   |
| 5/1/2023          | \$ 190,000.00     | \$ 28,600.00    | \$ 218,600.00   | \$ 1,845,000.00   |
| 11/1/2023         | \$ -              | \$ 25,750.00    | \$ 25,750.00    | \$ 1,845,000.00   |
| 5/1/2024          | \$ 190,000.00     | \$ 25,750.00    | \$ 215,750.00   | \$ 1,655,000.00   |
| 11/1/2024         | \$ -              | \$ 23,493.75    | \$ 23,493.75    | \$ 1,655,000.00   |
| 5/1/2025          | \$ 190,000.00     | \$ 23,493.75    | \$ 213,493.75   | \$ 1,465,000.00   |
| 11/1/2025         | \$ -              | \$ 21,237.50    | \$ 21,237.50    | \$ 1,465,000.00   |
| 5/1/2026          | \$ 185,000.00     | \$ 21,237.50    | \$ 206,237.50   | \$ 1,280,000.00   |
| 11/1/2026         | \$ -              | \$ 18,693.75    | \$ 18,693.75    | \$ 1,280,000.00   |
| 5/1/2027          | \$ 200,000.00     | \$ 18,693.75    | \$ 218,693.75   | \$ 1,080,000.00   |
| 11/1/2027         | \$ -              | \$ 15,943.75    | \$ 15,943.75    | \$ 1,080,000.00   |
| 5/1/2028          | \$ 205,000.00     | \$ 15,943.75    | \$ 220,943.75   | \$ 875,000.00     |
| 11/1/2028         | \$ -              | \$ 13,125.00    | \$ 13,125.00    | \$ 875,000.00     |
| 5/1/2029          | \$ 215,000.00     | \$ 13,125.00    | \$ 228,125.00   | \$ 660,000.00     |
| 11/1/2029         | \$ -              | \$ 9,900.00     | \$ 9,900.00     | \$ 660,000.00     |
| 5/1/2030          | \$ 225,000.00     | \$ 9,900.00     | \$ 234,900.00   | \$ 435,000.00     |
| 11/1/2030         | \$ -              | \$ 6,525.00     | \$ 6,525.00     | \$ 435,000.00     |
| 5/1/2031          | \$ 435,000.00     | \$ 6,525.00     | \$ 441,525.00   | \$ -              |
| Totals            | \$ 3,150,000.00   | \$ 799,105.00   | \$ 3,949,105.00 |                   |

| Series 2021 |                   |               |                 |               |                   |
|-------------|-------------------|---------------|-----------------|---------------|-------------------|
| Date        | Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|             |                   |               |                 |               | \$ 3,075,000.00   |
| 5/1/2021    | \$ 475,000.00     | 2.000%        | \$ 8,541.67     | \$ 483,541.67 | \$ 2,600,000.00   |
| 5/1/2022    | \$ 450,000.00     | 2.000%        | \$ 52,000.00    | \$ 502,000.00 | \$ 2,150,000.00   |
| 5/1/2023    | \$ 455,000.00     | 2.000%        | \$ 43,000.00    | \$ 498,000.00 | \$ 1,695,000.00   |
| 5/1/2024    | \$ 470,000.00     | 2.000%        | \$ 33,900.00    | \$ 503,900.00 | \$ 1,225,000.00   |
| 5/1/2025    | \$ 480,000.00     | 2.000%        | \$ 24,500.00    | \$ 504,500.00 | \$ 745,000.00     |
| 5/1/2026    | \$ 505,000.00     | 2.000%        | \$ 14,900.00    | \$ 519,900.00 | \$ 240,000.00     |
| 5/1/2027    | \$ 240,000.00     | 2.000%        | \$ 4,800.00     | \$ 244,800.00 | \$ -              |
|             |                   |               |                 |               | \$ -              |
|             |                   |               |                 |               | \$ -              |
|             |                   |               |                 |               | \$ -              |
|             |                   |               |                 |               | \$ -              |

|        |                 |  |               |                 |      |
|--------|-----------------|--|---------------|-----------------|------|
| Totals | \$ 3,075,000.00 |  | \$ 181,641.67 | \$ 3,256,641.67 | \$ - |
|--------|-----------------|--|---------------|-----------------|------|

| Street/Bridge Improvement |                   |               |                 |               |                   |
|---------------------------|-------------------|---------------|-----------------|---------------|-------------------|
| Date                      | Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                           |                   |               |                 |               | \$ 1,537,500.00   |
| 5/1/2021                  | \$ 224,993.05     | 2.000%        | \$ 4,270.84     | \$ 229,263.89 | \$ 1,312,506.95   |
| 5/1/2022                  | \$ 204,950.00     | 2.000%        | \$ 26,250.14    | \$ 231,200.14 | \$ 1,107,556.95   |
| 5/1/2023                  | \$ 209,950.00     | 2.000%        | \$ 22,151.14    | \$ 232,101.14 | \$ 897,606.95     |
| 5/1/2024                  | \$ 214,950.00     | 2.000%        | \$ 17,952.14    | \$ 232,902.14 | \$ 682,656.95     |
| 5/1/2025                  | \$ 224,950.00     | 2.000%        | \$ 13,653.14    | \$ 238,603.14 | \$ 457,706.95     |
| 5/1/2026                  | \$ 229,950.00     | 2.000%        | \$ 9,154.14     | \$ 239,104.14 | \$ 227,756.95     |
| 5/1/2027                  | \$ 227,756.95     | 2.000%        | \$ 2,400.00     | \$ 230,156.95 | \$ -              |
|                           |                   |               |                 |               |                   |
|                           |                   |               |                 |               |                   |
|                           |                   |               |                 |               |                   |

|        |                 |  |              |                 |  |
|--------|-----------------|--|--------------|-----------------|--|
| Totals | \$ 1,537,500.00 |  | \$ 95,831.54 | \$ 1,633,331.54 |  |
|--------|-----------------|--|--------------|-----------------|--|

| Municipal Auditorium |               |                 |               |                   |                 |
|----------------------|---------------|-----------------|---------------|-------------------|-----------------|
| Principal Payment    | Interest Rate | Interest Amount | Total Payment | Principal Balance |                 |
|                      |               |                 |               |                   | \$ 1,230,000.00 |
| \$ 200,005.56        | 2.000%        | \$ 3,416.66     | \$ 203,422.22 | \$ 1,029,994.44   |                 |
| \$ 196,040.00        | 2.000%        | \$ 20,599.88    | \$ 216,639.88 | \$ 833,954.44     |                 |
| \$ 196,040.00        | 2.000%        | \$ 16,679.08    | \$ 212,719.08 | \$ 637,914.44     |                 |
| \$ 204,040.00        | 2.000%        | \$ 12,758.28    | \$ 216,798.28 | \$ 433,874.44     |                 |
| \$ 204,040.00        | 2.000%        | \$ 8,677.48     | \$ 212,717.48 | \$ 229,834.44     |                 |
| \$ 220,040.00        | 2.000%        | \$ 4,596.68     | \$ 224,636.68 | \$ 9,794.44       |                 |
| \$ 9,794.44          | 2.000%        | \$ 1,920.00     | \$ 11,714.44  | \$ -              |                 |
|                      |               |                 | \$ -          |                   |                 |
|                      |               |                 | \$ -          |                   |                 |
|                      |               |                 | \$ -          |                   |                 |
|                      |               |                 | \$ -          |                   |                 |

|                 |  |              |                 |  |
|-----------------|--|--------------|-----------------|--|
| \$ 1,230,000.00 |  | \$ 68,648.06 | \$ 1,298,648.06 |  |
|-----------------|--|--------------|-----------------|--|

| Senior Center     |               |                 |               |                   |               |
|-------------------|---------------|-----------------|---------------|-------------------|---------------|
| Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |               |
|                   |               |                 |               |                   | \$ 307,500.00 |
| \$ 50,001.39      | 2.000%        | \$ 854.17       | \$ 50,855.56  | \$ 257,498.61     |               |
| \$ 49,010.00      | 2.000%        | \$ 5,149.98     | \$ 54,159.98  | \$ 208,488.61     |               |
| \$ 49,010.00      | 2.000%        | \$ 4,169.78     | \$ 53,179.78  | \$ 159,478.61     |               |
| \$ 51,010.00      | 2.000%        | \$ 3,189.58     | \$ 54,199.58  | \$ 108,468.61     |               |
| \$ 51,010.00      | 2.000%        | \$ 2,169.38     | \$ 53,179.38  | \$ 57,458.61      |               |
| \$ 55,010.00      | 2.000%        | \$ 1,149.18     | \$ 56,159.18  | \$ 2,448.61       |               |
| \$ 2,448.61       | 2.000%        | \$ 480.00       | \$ 2,928.61   | \$ -              |               |
|                   |               |                 | \$ -          |                   |               |
|                   |               |                 | \$ -          |                   |               |
|                   |               |                 | \$ -          |                   |               |
|                   |               |                 | \$ -          |                   |               |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 307,500.00 |  | \$ 17,162.07 | \$ 324,662.07 |  |
|---------------|--|--------------|---------------|--|

City of Neosho  
CIP Government  
FY2025

|                                              | Budgeted            | Forecasted          | Forecasted          | Forecasted          | Forecasted        |             |
|----------------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------|
|                                              | 2024-25             | 2025-26             | 2026-27             | 2027-28             | 2028-29           | Future      |
| DEPARTMENT/DESCRIPTION                       | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year       | Projects    |
| <b>REVENUE SOURCES</b>                       |                     |                     |                     |                     |                   |             |
| General Fund Sales Tax                       | \$ 937,790          | \$ 708,560          | \$ 285,000          | \$ 420,000          | \$ 20,000         |             |
| Public Safety Sales Tax                      | \$ 346,277          | \$ 1,104,192        | \$ 859,197          | \$ 994,197          | \$ 94,197         | \$ -        |
| Drainage Sales Tax                           | \$ 210,000          | \$ 150,000          | \$ -                | \$ 15,000           |                   |             |
| Senior Center Sales Tax                      | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Parks & Recreation Sales Tax                 | \$ 35,000           | \$ 30,000           | \$ 30,000           | \$ 30,000           | \$ 30,000         |             |
| Auditorium & Lampo Sales Tax                 | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Capital Improvement Sales Tax                | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Street Sales Tax                             | \$ 629,500          | \$ 970,000          | \$ 400,000          | \$ 600,000          | \$ 400,000        |             |
| NPE Grant Revenues                           | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Grants                                       | \$ 89,172           | \$ -                | \$ -                | \$ -                |                   |             |
| Golf Course Revenues                         | \$ 28,210           | \$ -                | \$ -                | \$ -                |                   |             |
| Golf Cart Replacement Reserve                | \$ 20,000           | \$ -                | \$ -                | \$ -                |                   |             |
| Fire Sales Tax                               | \$ 47,905           | \$ -                | \$ -                | \$ -                |                   |             |
| Tax Increment Financing                      | \$ -                |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
| <b>TOTAL REVENUE SOURCES</b>                 | <b>\$ 2,343,854</b> | <b>\$ 2,962,752</b> | <b>\$ 1,574,197</b> | <b>\$ 2,059,197</b> | <b>\$ 544,197</b> |             |
| <b>EXPENDITURES</b>                          |                     |                     |                     |                     |                   |             |
| <b>General Fund</b>                          |                     |                     |                     |                     |                   |             |
| General Admin                                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| City Clerk                                   | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Development                                  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Recycle Center                               | \$ 36,000           | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Police                                       | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000         | \$ -        |
| Municipal Court                              | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Information Technology                       | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Fleet Maintenance                            | \$ 9,500            | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Emergency Management                         | \$ 14,197           | \$ 14,197           | \$ 14,197           | \$ 14,197           | \$ 14,197         | \$ -        |
| Human Resources                              | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Airport                                      | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| IOOF Cemetery                                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
|                                              |                     |                     |                     |                     |                   |             |
| <b>General Fund</b>                          | <b>\$ 139,697</b>   | <b>\$ 94,197</b>    | <b>\$ 94,197</b>    | <b>\$ 94,197</b>    | <b>\$ 94,197</b>  | <b>\$ -</b> |
| <b>Fire Sales Tax Fund</b>                   | <b>\$ 299,985</b>   | <b>\$ 1,009,995</b> | <b>\$ 765,000</b>   | <b>\$ 900,000</b>   | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Drainage Sales Tax Fund</b>               | <b>\$ 60,000</b>    | <b>\$ 150,000</b>   | <b>\$ -</b>         | <b>\$ 15,000</b>    | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Senior Center Sales Tax Fund</b>          | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Parks &amp; Recreation Sales Tax Fund</b> | <b>\$ 754,172</b>   | <b>\$ 50,000</b>    | <b>\$ 50,000</b>    | <b>\$ 50,000</b>    | <b>\$ 50,000</b>  | <b>\$ -</b> |
| <b>Auditorium &amp; Lampo Sales Tax Fund</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Golf Course Fund</b>                      | <b>\$ 320,000</b>   | <b>\$ 688,560</b>   | <b>\$ 265,000</b>   | <b>\$ 400,000</b>   | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Street Sales Tax Fund</b>                 | <b>\$ 629,500</b>   | <b>\$ 970,000</b>   | <b>\$ 400,000</b>   | <b>\$ 600,000</b>   | <b>\$ 400,000</b> | <b>\$ -</b> |
| <b>Tax Increment Financing</b>               | <b>\$ -</b>         |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
| <b>TOTAL</b>                                 | <b>\$ 2,203,354</b> | <b>\$ 2,962,752</b> | <b>\$ 1,574,197</b> | <b>\$ 2,059,197</b> | <b>\$ 544,197</b> | <b>\$ -</b> |
| <b>ENDING BALANCE</b>                        | <b>\$ 140,500</b>   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>       |             |

City of Neosho  
CIP Enterprise Fund  
FY2025

|                                | Budgeted            | Forecasted          | Forecasted          | Forecasted          | Forecasted          |                   |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                | 2024-25             | 2025-26             | 2026-27             | 2027-28             | 2028-29             | Future            |
| DEPARTMENT/DESCRIPTION         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Projects          |
| BALANCE BROUGHT FORWARD        |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>REVENUE SOURCES</b>         |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| Water & Wastewater Charges     | \$ 443,500          | \$ 372,000          | \$ 328,000          | \$ 270,000          | \$ 304,000          | \$ -              |
| Wastewater Improvement Reserve | \$ 2,645,844        | \$ 2,206,844        | \$ 2,236,844        | \$ 2,056,844        | \$ 2,081,343        | \$ 741,021        |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>TOTAL REVENUE SOURCES</b>   | <b>\$ 3,089,344</b> | <b>\$ 2,578,844</b> | <b>\$ 2,564,844</b> | <b>\$ 2,326,844</b> | <b>\$ 2,385,343</b> |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>EXPENDITURES</b>            |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| Water Administration           | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              |
| Distribution & Maintenance     | \$ 1,625,323        | \$ 1,515,823        | \$ 1,515,823        | \$ 1,515,823        | \$ 1,534,322        | \$ 250,000        |
| Meter Reading                  | \$ -                | \$ 40,000           | \$ -                | \$ -                | \$ -                | \$ -              |
| Filtration                     | \$ 84,000           | \$ 82,000           | \$ 78,000           | \$ 20,000           | \$ 15,000           | \$ -              |
| Wastewater                     | \$ 1,380,021        | \$ 941,021          | \$ 971,021          | \$ 791,021          | \$ 836,021          | \$ 741,021        |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>TOTAL</b>                   | <b>\$ 3,089,344</b> | <b>\$ 2,578,844</b> | <b>\$ 2,564,844</b> | <b>\$ 2,326,844</b> | <b>\$ 2,385,343</b> | <b>\$ 991,021</b> |
| <b>ENDING BALANCE</b>          | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         |                   |



1. Enter Purchase/Improvement in Column A Under expenditures
2. Enter the Estimated Useful Life of the item in Column B
3. Enter the Estimated Cost of the item in the appropriate year
4. Enter any comments or descriptions in column I

|                         |                                          |             |             |             |             |             |          |                                                                                                  |
|-------------------------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|--------------------------------------------------------------------------------------------------|
| Street Department       | Anticipated<br>Useful Life (in<br>Years) | 2021-22     | 2022-23     | 2023-24     | 2024-25     | 2025-26     | Future   |                                                                                                  |
| DEPARTMENT/DESCRIPTION  |                                          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                                         |
| BALANCE BROUGHT FORWARD |                                          |             |             |             |             |             |          |                                                                                                  |
| REVENUE SOURCES         |                                          |             |             |             |             |             |          |                                                                                                  |
| Street Sales Tax        |                                          | \$ 682,000  | \$ 548,000  | \$ 800,000  | \$ -        | \$ -        |          |                                                                                                  |
|                         |                                          |             |             |             |             |             |          |                                                                                                  |
| TOTAL REVENUE SOURCES   |                                          | \$ 682,000  | \$ 548,000  | \$ 800,000  | \$ -        | \$ -        | \$ -     |                                                                                                  |
| EXPENDITURES            |                                          |             |             |             |             |             |          |                                                                                                  |
| Post Hole Digger        |                                          | \$ 8,000    | \$ 8,000    |             |             |             |          |                                                                                                  |
| Street Contracts        |                                          | \$ 600,000  | \$ 420,000  | \$ 600,000  |             |             |          | This is part of our 5 year improvement plan, bi-yearly slurry seal and yearly overlay            |
| Salt Brine tanks        |                                          | \$ 14,000   |             |             |             |             |          | We have 6 salt beds. We will add 2 brine pretreatment sprayers a year \$5,000 to \$7,000 a piece |
| 1 ton truck             | 5                                        | \$ 60,000   |             |             |             |             |          | Replace shop truck with one of the older street trucks (new truck for Streets)                   |
| Backhoe replacement     | 15                                       |             | \$ 120,000  |             |             |             |          | Replacement Schedule of Streets Backhoe                                                          |
| Trackhoe replacement    | 15                                       |             |             | \$ 200,000  |             |             |          | Replacement Schedule for Trackhoe                                                                |
|                         |                                          |             |             |             |             |             |          |                                                                                                  |
|                         |                                          |             |             |             |             |             |          |                                                                                                  |
|                         |                                          |             |             |             |             |             |          |                                                                                                  |
|                         |                                          |             |             |             |             |             |          |                                                                                                  |
|                         |                                          |             |             |             |             |             |          |                                                                                                  |
|                         |                                          |             |             |             |             |             |          |                                                                                                  |
| TOTAL                   |                                          | \$ 682,000  | \$ 648,000  | \$ 800,000  | \$ -        | \$ -        | \$ -     |                                                                                                  |
| ENDING BALANCE          |                                          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |                                                                                                  |

| General Admin                  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|--------------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION         |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD        |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
| EXPENDITURES                   |                                    |             |             |             |             |             |          |          |
| City Hall Exterior renovations | 30 ?                               |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
|                                |                                    |             |             |             |             |             |          |          |
| TOTAL                          |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -        |
| ENDING BALANCE                 |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

[illegible]

| Development                    |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29  | Future   |  |
|--------------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|----------|----------|--|
| DEPARTMENT/DESCRIPTION         |  | Fiscal Year                        | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |  |
| <b>BALANCE BROUGHT FORWARD</b> |  |                                    |             |             |             |             |          |          |  |
| <b>REVENUE SOURCES</b>         |  |                                    |             |             |             |             |          |          |  |
| General Fund Revenues          |  | \$ -                               |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL REVENUE SOURCES</b>   |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |
| <b>EXPENDITURES</b>            |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
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|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL</b>                   |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |  |
| <b>ENDING BALANCE</b>          |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |

|                         |    |                                    |             |             |             |             |             |          |                                                                         |
|-------------------------|----|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|-------------------------------------------------------------------------|
| Recycle Center          |    | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                                                         |
| DEPARTMENT/DESCRIPTION  |    |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                |
| BALANCE BROUGHT FORWARD |    |                                    |             |             |             |             |             |          |                                                                         |
| REVENUE SOURCES         |    |                                    |             |             |             |             |             |          |                                                                         |
| General Fund Revenue    |    | \$ 36,000                          |             |             |             |             |             |          |                                                                         |
|                         |    |                                    |             |             |             |             |             |          |                                                                         |
|                         |    |                                    |             |             |             |             |             |          |                                                                         |
|                         |    |                                    |             |             |             |             |             |          |                                                                         |
| TOTAL REVENUE SOURCES   |    | \$ 36,000                          | \$ -        | \$ -        | \$ -        | \$ -        |             |          |                                                                         |
| EXPENDITURES            |    |                                    |             |             |             |             |             |          |                                                                         |
| Security cameras        | 20 | \$ 5,000                           |             |             |             |             |             |          | Security cameras for survalance and security                            |
| Security fence          | 30 | \$ 28,000                          |             |             |             |             |             |          | Chain link fence and two gates for security.                            |
| Manual dock ramp        | 30 | \$ 3,000                           |             |             |             |             |             |          | Curently have two bays for loading and unloading and only one dock ramp |
|                         |    |                                    |             |             |             |             |             |          |                                                                         |
|                         |    |                                    |             |             |             |             |             |          |                                                                         |
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[illegible]

| Municipal Court                | Anticipated Useful Life (in Years) | 2024-25<br>Fiscal Year | 2025-26<br>Fiscal Year | 2026-27<br>Fiscal Year | 2027-28<br>Fiscal Year | 2028-29<br>Fiscal Year | Future Projects | Comments |
|--------------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|----------|
| <b>BALANCE BROUGHT FORWARD</b> |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
| <b>EXPENDITURES</b>            |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
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|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
| TOTAL                          |                                    | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -            | -        |
| ENDING BALANCE                 |                                    | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | -               |          |

| Information Technology  |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
| EXPENDITURES            |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
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|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
| TOTAL                   |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| ENDING BALANCE          |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |



| Fleet Maintenance          | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                                          |
|----------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------------------------------------------------------|
| DEPARTMENT/DESCRIPTION     |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                 |
| BALANCE BROUGHT FORWARD    |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
| EXPENDITURES               |                                    |             |             |             |             |             |          |                                                          |
| Metal plates for Fleet pit |                                    | \$ 1,500    |             |             |             |             |          | To help with floor space                                 |
| Exhaust fans               |                                    | \$ 8,000    |             |             |             |             |          | This is for exhausting gases and fumes during the winter |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
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|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
| TOTAL                      |                                    | \$ 9,500    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -                                                        |
| ENDING BALANCE             |                                    | \$ (9,500)  | \$ -        | \$ -        | \$ -        | \$ -        |          |                                                          |

| Emergency Management                 |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                                                                                     |
|--------------------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|-----------------------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION               |  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                                            |
| BALANCE BROUGHT FORWARD              |  |                                    |             |             |             |             |             |          |                                                                                                     |
| REVENUE SOURCES                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
| Transfer from Public Safety Tax Fund |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ -     |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
| TOTAL REVENUE SOURCES                |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   |          |                                                                                                     |
| EXPENDITURES                         |  |                                    |             |             |             |             |             |          |                                                                                                     |
| Siren Maintenance Agreement          |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   |          | Annual Contract for repairs to all storm Sirens Added 5% cushion to last years price of \$13,521.00 |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
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|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
| TOTAL                                |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ -     |                                                                                                     |
| ENDING BALANCE                       |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |                                                                                                     |

| Human Resources         | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| EXPENDITURES            |                                    |             |             |             |             |             |          |          |
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|                         |                                    |             |             |             |             |             |          |          |
| TOTAL                   |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -        |
| ENDING BALANCE          |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Airport                 | Anticipated<br>Useful Life (in<br>Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |                                          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |                                          |             |             |             |             |             |          |          |
| REVENUE SOURCES         |                                          |             |             |             |             |             |          |          |
| General Fund Revenues   |                                          | \$ -        |             |             |             |             |          |          |
| Timber Sales            |                                          |             |             |             |             |             |          |          |
|                         |                                          |             |             |             |             |             |          |          |
| TOTAL REVENUE SOURCES   |                                          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |
| EXPENDITURES            |                                          |             |             |             |             |             |          |          |
|                         |                                          |             |             |             |             |             |          |          |
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|                         |                                          |             |             |             |             |             |          |          |
|                         |                                          |             |             |             |             |             |          |          |
|                         |                                          |             |             |             |             |             |          |          |
| TOTAL                   |                                          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| ENDING BALANCE          |                                          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| IOOF Cemetery                  |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29  | Future   |  |
|--------------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|----------|----------|--|
| DEPARTMENT/DESCRIPTION         |  | Fiscal Year                        | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |  |
| <b>BALANCE BROUGHT FORWARD</b> |  |                                    |             |             |             |             |          |          |  |
| <b>REVENUE SOURCES</b>         |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL REVENUE SOURCES</b>   |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |
| <b>EXPENDITURES</b>            |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL</b>                   |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |  |
| <b>ENDING BALANCE</b>          |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |

|                                      |                 |             |              |             |             |             |          |                                                                                              |
|--------------------------------------|-----------------|-------------|--------------|-------------|-------------|-------------|----------|----------------------------------------------------------------------------------------------|
| Fire Department                      | Anticipated     | 2024-25     | 2025-26      | 2026-27     | 2027-28     | 2028-29     | Future   |                                                                                              |
|                                      | Useful Life (in |             |              |             |             |             |          |                                                                                              |
|                                      | Years)          |             |              |             |             |             |          |                                                                                              |
| DEPARTMENT/DESCRIPTION               |                 | Fiscal Year | Fiscal Year  | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                                     |
| BALANCE BROUGHT FORWARD              |                 |             |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
| REVENUE SOURCES                      |                 |             |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
| Transfer from Public Safety Tax Fund |                 | \$ 252,080  | \$ 1,009,995 | \$ 765,000  | \$ 900,000  | \$ -        | \$ -     |                                                                                              |
| Fire Sales Tax Fund Balance          |                 | \$47,905    |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
| TOTAL REVENUE SOURCES                |                 | \$ 299,985  | \$ 1,009,995 | \$ 765,000  | \$ 900,000  | \$ -        |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
| EXPENDITURES                         |                 |             |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
| Replace Rescue 4                     | 15              | \$252,080   |              |             |             |             |          | Replacement of Rescue 4                                                                      |
| Purchase New Quint Aerial            | 20              |             | \$ 600,000   | \$ 600,000  |             |             |          | Purchase of Quint for the downtown district                                                  |
| Remodel of station 2                 | 20              |             | \$ 350,000   |             |             |             |          | Remodel the Kitchen, Office and Bedroom, Addition of 1 bay.                                  |
| Replace Engine 8                     | 20              |             |              |             | \$ 900,000  |             |          | Replace Engine 8 (2001 Model Engine)                                                         |
| Turn out gear replacement            | 5               |             |              | \$ 165,000  |             |             |          | Replacement of all Turnout gear Helmets, boot, gloves, nomex, coat ,suspenders, and pants    |
| Extrication Equipment                | 10              | \$32,905    |              |             |             |             |          | Replacement of Extrication Equipment on R4 and E6                                            |
| Motorola Mobile Radio                | 10              |             | \$ 11,000    |             |             |             |          | We have no back up radios if a radio goes down.                                              |
| Rope Rescue Equipment                | 10              | \$15,000    | \$ 6,000     |             |             |             |          | Rope Rescue equipment for New Rescue. High Angle, Confined space                             |
| John Deere UTV                       | 15              |             | \$ 24,995    |             |             |             |          | UTV for use in lost person search, Timber Fires, rescue calls in Morse or Bicenteninal park. |
| Trench Shoring                       | 20              |             | \$ 18,000    |             |             |             |          | Trench Shoring for below grade rescues in open trench's where wotk is being done.            |
|                                      |                 |             |              |             |             |             |          |                                                                                              |
| TOTAL                                |                 | \$ 299,985  | \$ 1,009,995 | \$ 765,000  | \$ 900,000  | \$ -        | \$ -     |                                                                                              |
| ENDING BALANCE                       |                 | \$ -        | \$ -         | \$ -        | \$ -        | \$ -        |          |                                                                                              |

| Drainage                       | Anticipated Useful Life (in Years) | 2024-25<br>Fiscal Year | 2025-26<br>Fiscal Year | 2026-27<br>Fiscal Year | 2027-28<br>Fiscal Year | 2028-29<br>Fiscal Year | Future Projects |                                    |
|--------------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|------------------------------------|
| <b>BALANCE BROUGHT FORWARD</b> |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>REVENUE SOURCES</b>         |                                    |                        |                        |                        |                        |                        |                 |                                    |
| Drainage Sales Tax             |                                    | \$ 210,000             | \$ 150,000             | \$ -                   | \$ 15,000              |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>TOTAL REVENUE SOURCES</b>   |                                    | <b>\$ 210,000</b>      | <b>\$ 150,000</b>      | <b>\$ -</b>            | <b>\$ 15,000</b>       | <b>\$ -</b>            |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>EXPENDITURES</b>            |                                    |                        |                        |                        |                        |                        |                 |                                    |
| Replace Flat Bed Dump Truck    | 20                                 |                        | \$ 150,000             |                        |                        |                        |                 |                                    |
| Replace 1 Mower                | 10                                 | \$ 20,000              |                        |                        | \$ 15,000              |                        |                 | Replacement for our 2012 72" mower |
| Grant 20% match Retention Pond |                                    | \$ 40,000              |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>TOTAL</b>                   |                                    | <b>\$ 60,000</b>       | <b>\$ 150,000</b>      | <b>\$ -</b>            | <b>\$ 15,000</b>       | <b>\$ -</b>            | <b>\$ -</b>     |                                    |
| <b>ENDING BALANCE</b>          |                                    | <b>\$ 150,000</b>      | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>            |                 |                                    |

|                         |  |                                    |             |             |             |             |             |          |          |
|-------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| Senior Center           |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
| DEPARTMENT/DESCRIPTION  |  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |  |                                    |             |             |             |             |             |          |          |
| REVENUE SOURCES         |  |                                    |             |             |             |             |             |          |          |
| Senior Center Sales Tax |  |                                    | \$ -        |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
| TOTAL REVENUE SOURCES   |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |
| EXPENDITURES            |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
| TOTAL                   |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| ENDING BALANCE          |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |



| Parks & Recreation                  | Anticipated<br>Useful Life (in<br>Years) | 2024-25           | 2025-26          | 2026-27          | 2027-28          | 2028-29          | Future      |                                                                                         |
|-------------------------------------|------------------------------------------|-------------------|------------------|------------------|------------------|------------------|-------------|-----------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION              |                                          | Fiscal Year       | Fiscal Year      | Fiscal Year      | Fiscal Year      | Fiscal Year      | Projects    | Comments                                                                                |
| <b>BALANCE BROUGHT FORWARD</b>      |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| <b>REVENUE SOURCES</b>              |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| Parks & Recreation Sales Tax        |                                          | \$35,000          | \$30,000         | \$30,000         | \$30,000         | \$30,000         |             |                                                                                         |
| Parks & Recreation Fund Balance     |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| Bicycle Trails Grant                |                                          | \$89,172          |                  |                  |                  |                  |             | Downstream Loop - Depending upon RTP Grant through DNR                                  |
| General Fund Revenues               |                                          | \$630,000         | \$20,000         | \$20,000         | \$20,000         | \$20,000         |             |                                                                                         |
| <b>TOTAL REVENUE SOURCES</b>        |                                          | <b>\$ 754,172</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> |             |                                                                                         |
| <b>EXPENDITURES</b>                 |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| Bicycle Trails                      |                                          | \$89,172          |                  |                  |                  |                  |             | Downstream Loop - Depending upon RTP Grant through DNR                                  |
| Morse Park Ball field lighting      | 20 years                                 | \$30,000          | \$30,000         | \$30,000         | \$30,000         | \$30,000         |             | Five year plan to change out all old lighting at ball fields, to new LED lights         |
| Mower replacement                   | 8 Years                                  |                   | \$20,000         | \$20,000         | \$20,000         | \$20,000         |             | Trade in and purchase new mower annually                                                |
| Christmas lighting displays         | 10 years                                 | \$10,000          |                  |                  |                  |                  |             | LED Christmas lighting displays down College St.                                        |
| Asphalt paving of two small areas   | 20 years                                 | \$10,000          |                  |                  |                  |                  |             | Paving areas at Park shop and small ADA Parking lot at Scenic Park.                     |
| New sidewalk at Scenic Park         | 20 years                                 | \$5,000           |                  |                  |                  |                  |             | New ADA sidewalk at Scenic Park.                                                        |
| ADA Restroom at Scenic Park.        | 20 years                                 | \$35,000          |                  |                  |                  |                  |             | Change storage room into a ADA Restroom at Scenic Park.                                 |
| New truck with convenience bed      | 20 years                                 | \$65,000          |                  |                  |                  |                  |             | New truck with convenience bed for restroom detail and multi use.                       |
| Repair rock wall at Big Spring Park | 10 years                                 | \$10,000          |                  |                  |                  |                  |             | for survey of the property and repair the rock wall at BSP.                             |
| Architectural Design Aquatic center | 30 years                                 | \$500,000         |                  |                  |                  |                  |             | For new golf facilities and Aquatic Center / could split the cost with the golf course. |
|                                     |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
|                                     |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| <b>TOTAL</b>                        |                                          | <b>\$ 754,172</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ -</b> |                                                                                         |
| <b>ENDING BALANCE</b>               |                                          | <b>\$ -</b>       | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      |             |                                                                                         |

|                              |  |                        |             |             |             |             |             |          |          |
|------------------------------|--|------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| Auditorium & Lampo           |  | Anticipated            | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   | Comments |
| DEPARTMENT/DESCRIPTION       |  | Useful Life (in Years) | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects |          |
| BALANCE BROUGHT FORWARD      |  |                        |             |             |             |             |             |          |          |
| <b>REVENUE SOURCES</b>       |  |                        |             |             |             |             |             |          |          |
| Auditorium Sales Tax         |  |                        | \$ -        |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
| <b>TOTAL REVENUE SOURCES</b> |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |
| <b>EXPENDITURES</b>          |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
| <b>TOTAL</b>                 |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| <b>ENDING BALANCE</b>        |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Golf Course                                 | Anticipated<br>Useful Life (in<br>Years) | 2024-25           | 2025-26           | 2026-27           | 2027-28           | 2028-29     | Future      |                                                                                                                               |
|---------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION                      |                                          | Fiscal Year       | Fiscal Year       | Fiscal Year       | Fiscal Year       | Fiscal Year | Projects    | Comments                                                                                                                      |
| <b>BALANCE BROUGHT FORWARD</b>              |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| <b>REVENUE SOURCES</b>                      |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Parks & Recreation Sales Tax                |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Parks & Recreation Fund Balance             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Capital Improvement Sales Tax               |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| General Fund Revenues                       |                                          | \$ 271,790        | \$ 688,560        | \$ 265,000        | \$ 400,000        |             |             |                                                                                                                               |
| Golf Course Revenues                        |                                          | \$ 28,210         |                   | \$ -              |                   |             |             |                                                                                                                               |
| Golf Cart Replacement Reserve               |                                          | \$20,000          |                   |                   |                   |             |             |                                                                                                                               |
| <b>TOTAL REVENUE SOURCES</b>                |                                          | <b>\$ 320,000</b> | <b>\$ 688,560</b> | <b>\$ 265,000</b> | <b>\$ 400,000</b> | <b>\$ -</b> |             |                                                                                                                               |
| <b>EXPENDITURES</b>                         |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Pro Shop Restrooms/Kitchen                  | 25 years                                 | \$ 20,000         | \$ 20,000         |                   |                   |             |             | Address ADA needs in the 4 Pro Shop Restrooms/ Kitchen Health Dept Needs.                                                     |
| Carts Replacement                           |                                          |                   | \$ 20,000         |                   |                   |             |             |                                                                                                                               |
| Beverage Cart                               |                                          |                   | \$ 18,000         |                   |                   |             |             |                                                                                                                               |
| PumpHouse                                   |                                          |                   | \$ 80,000         |                   |                   |             |             |                                                                                                                               |
| Beverage Cart Tablet/Cell Service for sales |                                          |                   | \$ 560            |                   |                   |             |             |                                                                                                                               |
| Overseed Fairways                           |                                          |                   | \$ 100,000        |                   |                   |             |             | <a href="https://gsrpdf.lib.msu.edu/?file=/2000s/2000/000101.pdf">https://gsrpdf.lib.msu.edu/?file=/2000s/2000/000101.pdf</a> |
| Replacement Irrigation System               |                                          | \$ 300,000        | \$ 300,000        |                   |                   |             |             | TBD- Getting prices for new heads                                                                                             |
| Level tee boxes                             |                                          |                   | \$ 90,000         |                   |                   |             |             | #2, #8 white, #6 red \$1.50 to 2.5 sq ft estimate 10,000 sq ft                                                                |
| Enlarge tee boxes                           |                                          |                   | \$ 60,000         |                   |                   |             |             | #3, #8 red \$1.50 - \$2.5 sq ft estimate 10,000 sq ft                                                                         |
| Roof/Awning                                 |                                          |                   |                   | \$ 15,000         |                   |             |             | Front of Pro Shop cement area                                                                                                 |
| Refurbish Maintenance barn                  |                                          |                   |                   | \$ 50,000         |                   |             |             |                                                                                                                               |
| Replace Cart barns                          |                                          |                   |                   | \$ 200,000        |                   |             |             | One large barn with stall for washing carts                                                                                   |
| Bar and Grill in Club House                 |                                          |                   |                   |                   | \$ 100,000        |             |             |                                                                                                                               |
| Refurbish some holes at Lake course         |                                          |                   |                   |                   | \$ 300,000        |             |             |                                                                                                                               |
| Solar Power for Pro Shop                    |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| <b>TOTAL</b>                                |                                          | <b>\$ 320,000</b> | <b>\$ 688,560</b> | <b>\$ 265,000</b> | <b>\$ 400,000</b> | <b>\$ -</b> | <b>\$ -</b> |                                                                                                                               |
| <b>ENDING BALANCE</b>                       |                                          | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b> |             |                                                                                                                               |

| Street Department                       | Anticipated<br>Useful Life (in<br>Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                                                                       |
|-----------------------------------------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|---------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION                  |                                          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                              |
| BALANCE BROUGHT FORWARD                 |                                          |             |             |             |             |             |          |                                                                                       |
| REVENUE SOURCES                         |                                          |             |             |             |             |             |          |                                                                                       |
| Street Sales Tax                        |                                          | \$ 629,500  | \$ 970,000  | \$ 400,000  | \$ 600,000  | \$ 400,000  |          |                                                                                       |
| Street Fund Balance                     |                                          |             |             |             |             |             |          |                                                                                       |
| TOTAL REVENUE SOURCES                   |                                          | \$ 629,500  | \$ 970,000  | \$ 400,000  | \$ 600,000  | \$ 400,000  |          |                                                                                       |
| EXPENDITURES                            |                                          |             |             |             |             |             |          |                                                                                       |
| Street Contracts                        |                                          | \$ 600,000  | \$ 600,000  | \$ 400,000  | \$ 600,000  | \$ 400,000  |          | This is part of our 5 year improvement plan, bi-yearly slurry seal and yearly overlay |
| Trackhoe replacement                    | 15                                       |             | \$ 220,000  |             |             |             |          | Replacement Schedule for Trackhoe                                                     |
| Wheel loader replacement                | 15                                       |             | \$ 150,000  |             |             |             |          | Replacement Schedule for Wheel Loader                                                 |
| Trailer for mini excavator              | 20                                       | \$ 15,000   |             |             |             |             |          | Additional trailer for hauling mini excavator                                         |
| Snow Box for skid steer                 | 20                                       | \$ 7,000    |             |             |             |             |          | Snow removal equipment for the square and parking lots downtown                       |
| Electricity and lights storage barn 50% | 30                                       | \$ 7,500    |             |             |             |             |          | Electricity and lights for equipment under the storage barn. Shared with D&M          |
| TOTAL                                   |                                          | \$ 629,500  | \$ 970,000  | \$ 400,000  | \$ 600,000  | \$ 400,000  | \$ -     |                                                                                       |
| ENDING BALANCE                          |                                          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |                                                                                       |

| Water Admin             | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| EXPENDITURES            |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| TOTAL                   |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -        |
| ENDING BALANCE          |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Distribution & Maintenance                                             |    | Anticipated            | 2024-25             | 2025-26             | 2026-27             | 2027-28             | 2028-29             | Future            | Comments                                                                         |
|------------------------------------------------------------------------|----|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|----------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION                                                 |    | Useful Life (in Years) | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Projects          |                                                                                  |
| <b>BALANCE BROUGHT FORWARD</b>                                         |    |                        |                     |                     |                     |                     |                     |                   |                                                                                  |
| <b>REVENUE SOURCES</b>                                                 |    |                        |                     |                     |                     |                     |                     |                   |                                                                                  |
| Water Revenues                                                         |    |                        | \$ 359,500          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 289,000          |                   |                                                                                  |
| Water Reservices                                                       |    |                        | \$ 1,265,823        | \$ 1,265,823        | \$ 1,265,823        | \$ 1,265,823        | \$ 1,245,322        |                   |                                                                                  |
| <b>TOTAL REVENUE SOURCES</b>                                           |    |                        | <b>\$ 1,625,323</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,534,322</b> |                   |                                                                                  |
| <b>EXPENDITURES</b>                                                    |    |                        |                     |                     |                     |                     |                     |                   |                                                                                  |
| Water Main Replacement Reserve                                         |    |                        | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 250,000        | Reserve to allow needed water main replacement                                   |
| 1 Ton Truck                                                            | 15 |                        | \$ 85,000           |                     |                     |                     |                     |                   | Replacement of # 204 2015 F350 extended cab                                      |
| Hydraulic power pack                                                   | 15 |                        | \$ 12,000           |                     |                     |                     |                     |                   | Additional hydraulic power pack for our trash pumps and equipment                |
| Walk behind street saw                                                 | 15 |                        | \$ 5,000            |                     |                     |                     |                     |                   | Replacement of our 20 year old walk behind saw                                   |
| 1/2 ton Truck                                                          | 15 |                        |                     |                     |                     |                     | \$ 39,000           |                   | Replacement of # 201 2014 F150                                                   |
| City-Upper pressure zone water line replacements                       |    |                        | \$ 632,912          | \$ 632,912          | \$ 632,912          | \$ 632,912          |                     |                   | Water Study Recommendationd Priority Improvements                                |
| Reconfigure City-Upper and City-Downtown pressure zone boundary to     |    |                        | \$ 632,912          | \$ 632,912          | \$ 632,912          | \$ 632,912          |                     |                   | Water Study Recommendationd Priority Improvements                                |
| City-Upper pressure zone 6" diameter cast iron water line replacements |    |                        |                     |                     |                     |                     | \$ 415,107          |                   | Water Study Recommendationd Priority Improvements                                |
| Dewey-Finney Water Tower Exterior Recoat                               |    |                        |                     |                     |                     |                     | \$ 415,107          |                   | Water Study Recommendationd Priority Improvements                                |
| Baxter Street Standpipe Interior Recoat                                |    |                        |                     |                     |                     |                     | \$ 415,107          |                   | Water Study Recommendationd Priority Improvements                                |
| Electricity and lights storage barn 50%                                | 30 |                        | \$ 7,500            |                     |                     |                     |                     |                   | Electricity and lights for equipment under the storage barn. Shared with Streets |
| <b>TOTAL</b>                                                           |    |                        | <b>\$ 1,625,323</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,534,322</b> | <b>\$ 250,000</b> |                                                                                  |
| <b>ENDING BALANCE</b>                                                  |    |                        | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         |                   |                                                                                  |

|                         |                 |             |             |             |             |             |          |                                        |
|-------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|----------|----------------------------------------|
| Meter Reading           | Anticipated     | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                        |
|                         | Useful Life (in |             |             |             |             |             |          |                                        |
|                         | Years)          |             |             |             |             |             |          |                                        |
| DEPARTMENT/DESCRIPTION  |                 | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                               |
| BALANCE BROUGHT FORWARD |                 |             |             |             |             |             |          |                                        |
| REVENUE SOURCES         |                 |             |             |             |             |             |          |                                        |
| Water Revenues          |                 | \$ -        | \$ 40,000   | \$ -        | \$ -        | \$ -        | \$ -     |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
| TOTAL REVENUE SOURCES   |                 | \$ -        | \$ 40,000   | \$ -        | \$ -        | \$ -        |          |                                        |
| EXPENDITURES            |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
| 1/2 Ton Truck           | 15              |             | \$ 40,000   |             |             |             |          | Replacement Schedule for service truck |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
|                         |                 |             |             |             |             |             |          |                                        |
| TOTAL                   |                 | \$ -        | \$ 40,000   | \$ -        | \$ -        | \$ -        | \$ -     |                                        |
| ENDING BALANCE          |                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |                                        |

|                                        |                        |             |             |             |             |             |          |                                 |
|----------------------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|----------|---------------------------------|
| Filtration                             | Anticipated            | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                 |
| DEPARTMENT/DESCRIPTION                 | Useful Life (in Years) | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                        |
| BALANCE BROUGHT FORWARD                |                        |             |             |             |             |             |          |                                 |
| REVENUE SOURCES                        |                        |             |             |             |             |             |          |                                 |
| Water Revenues                         |                        | \$ 84,000   | \$ 82,000   | \$ 78,000   | \$ 20,000   | \$ 15,000   | \$ -     |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
| TOTAL REVENUE SOURCES                  |                        | \$ 84,000   | \$ 82,000   | \$ 78,000   | \$ 20,000   | \$ 15,000   |          |                                 |
| EXPENDITURES                           |                        |             |             |             |             |             |          |                                 |
| Chlorine residual analyzer             |                        | \$ -        | \$ 10,000   |             |             | \$ 15,000   |          |                                 |
| Raw/finish water turbidimeters         |                        | \$ -        | \$ 10,000   |             |             |             |          | Total of 2 (1 finish, 1 raw)    |
| Filter turbidimeters                   |                        | \$ 12,000   | \$ 12,000   | \$ 8,000    | \$ 8,000    |             |          | Total of 4, replace 1 each year |
| Flow meters                            |                        | \$ 12,000   | \$ 20,000   |             | \$ 12,000   |             |          | Total of 2 (1 finish, 1 raw)    |
| Crowder pump station high service pump |                        | \$ 30,000   | \$ 30,000   | \$ 30,000   |             |             |          | Total of 3 (2 large, 1 small)   |
| Raw Water Pump Rebuild                 |                        | \$ 30,000   |             | \$ 40,000   |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
| TOTAL                                  |                        | \$ 84,000   | \$ 82,000   | \$ 78,000   | \$ 20,000   | \$ 15,000   | \$ -     |                                 |
| ENDING BALANCE                         |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |                                 |





**AN ORDINANCE of the City of Neosho, Missouri, adopting the annual City budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025.**

WHEREAS, in accordance with Section 5.02 of the Neosho City Charter, the City Manager has submitted to the Mayor and Council a budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025, and an accompanying message; and,

WHEREAS, in accordance with Section 5.06 of the Neosho City Charter, a public hearing on the proposed budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025, was held on August 20, 2024.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** A budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025, providing total revenues of \$62,376,319.00 and appropriations for all funds of \$55,236,906.00, including the salary schedule therein, a true and accurate copy of the same being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

**Section 2.** The City Manager is directed to cause the proper accounting entries to be made in the books and records of the City so as to reflect the revenues and appropriations set forth in the budget for the fiscal year beginning October 1, 2024, and ending September 30, 2025.

**Section 3.** That this Ordinance shall be in full force and effect from and after its passage.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek Snyder, City Attorney

# City of Neosho, Missouri

## Adopted Annual Operating Budget

October 1, 2024 – September 30, 2025



October 1, 2024



# City of Neosho

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
<http://www.neoshomo.gov>

August 20, 2024

Citizens of the City  
Honorable Mayor and Members of the Neosho City Council  
City of Neosho  
Neosho, Missouri

In fulfillment of Article V of the Neosho City Charter, I am submitting for your consideration and approval the proposed budget for the fiscal year ending September 30, 2025.

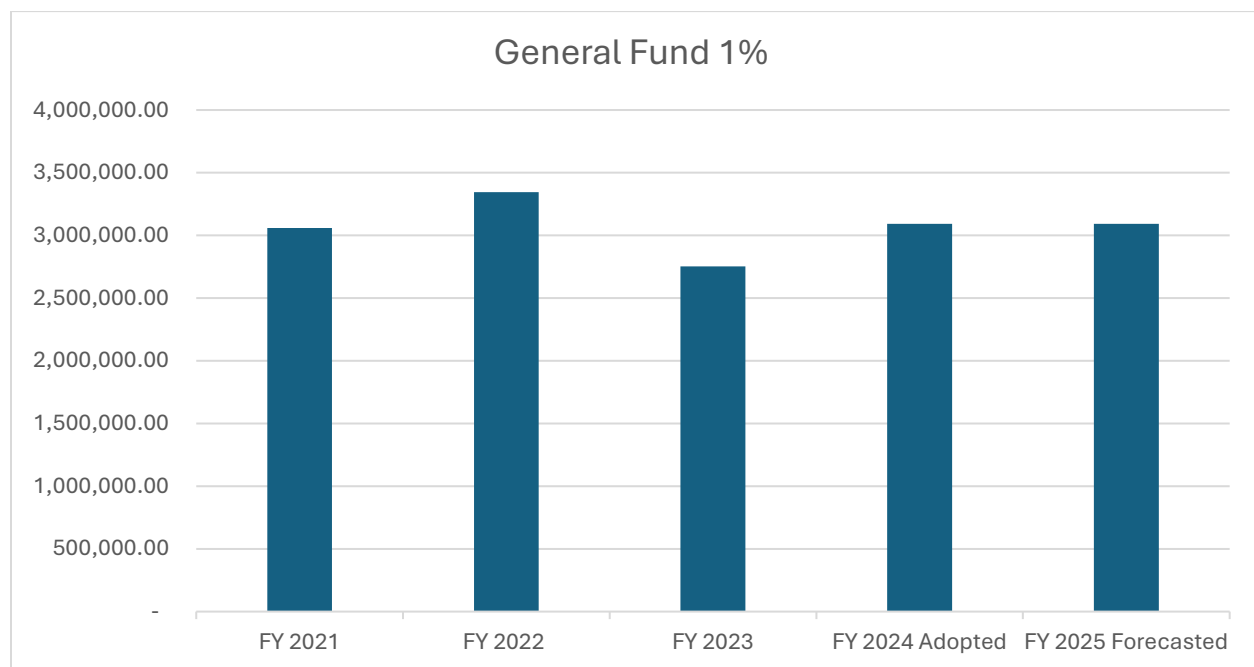
The table below provides the following information on our balanced budget for the General Government Funds and Enterprise Funds: Proposed Revenues & Expenditures, Proposed Other Sources, and Proposed Other Uses. Also displayed is a comparison to the prior two years of original adopted budgets.

|                        | Projected Fund<br>Balance | Total Revenues<br>and Other<br>Sources | Total<br>Expenditures<br>and Other Uses | Projected<br>Ending Fund<br>Balance | % of<br>Total | Change<br>Amount       | Change<br>%  |
|------------------------|---------------------------|----------------------------------------|-----------------------------------------|-------------------------------------|---------------|------------------------|--------------|
| Government Funds       | \$ 17,873,902.00          | \$ 38,228,302.00                       | \$ 40,433,154.00                        | \$ 15,669,050.00                    | 0.70          | \$ (2,204,852.00)      | -0.12        |
| Internal Service Funds | \$ 149,545.00             | \$ 1,112,018.00                        | \$ 1,111,918.00                         | \$ 149,645.00                       | 0.00          | \$ 100.00              | 0.00         |
| Enterprise Funds       | \$ 6,764,849.00           | \$ 12,183,339.00                       | \$ 12,471,816.00                        | \$ 6,476,372.00                     | 0.30          | \$ (288,477.00)        | -0.04        |
| <b>Total</b>           | <b>\$ 24,788,296.00</b>   | <b>\$ 51,523,659.00</b>                | <b>\$ 54,016,888.00</b>                 | <b>\$ 22,295,067.00</b>             | <b>1.00</b>   | <b>\$ (249,229.00)</b> | <b>-0.17</b> |

|                       | <b>FY2023<br/>Adopted<br/>Budget</b> | <b>FY2024<br/>Adopted<br/>Budget</b> | <b>FY2025<br/>Proposed</b> |
|-----------------------|--------------------------------------|--------------------------------------|----------------------------|
| Government Funds      | 38,909,227.00                        | 41,362,456.00                        | 40,433,154.00              |
| Internal Service Fund | 1,017,506.00                         | 1,019,017.00                         | 1,111,918.00               |
| Enterprise Funds      | 20,019,620.00                        | 11,177,977.00                        | 12,471,816.00              |
| <b>Total</b>          | <b>59,946,353.00</b>                 | <b>53,559,450.00</b>                 | <b>54,016,888.00</b>       |

The City's expenditures and other uses have increased for the Fiscal 2025 year. This is in large part due to the continuation of two stormwater projects related to the use of American Rescue Plan Act "ARPA" funds for drinking water, wastewater and stormwater, and the Department of Economic Development "DED" funds for Stratford Place and Freeman Road. Flooding occurs easily among the properties and roadways during moderate rainfall events and remain flooded for extended time periods after rainfall events. The proposed projects will consist of the installation of a stormwater system of inlets and piping to promote drainage of the existing area and intercept stormwater generated from the south for the Stratford Place and Freeman Road project. Construction of a new drainage ditch to mitigate flooding from Hatchery Branch and the High School Branch. Construction project will begin for improvements and overlay of Highway 59 towards Malcom Mosby Drive. This construction will include the addition of right turn lanes at the intersections of Industrial Drive and Clemons Drive and will also include stormwater improvements in this area. The adoption of the twenty-year plan for water projects will consist of replacement of water lines which are at the end of their service life, and will include replacement of gate valves, fire hydrants, service connections, and appurtenances. The City received the wastewater study this last year and has begun implementation of the plan to update and repair the wastewater collection and treatment system. Among the proposed wastewater projects is the rehabilitation of the Buffalo Creek Lift Station and the Villas/Limekiln lift station in order to mitigate the infiltration and inflow of stormwater into the sewer system.

The City has seen an overall decrease of 3.48% from FY23 in sales tax revenues received as of August 2024. The loss of retail business is a large part of the decrease. Using the five-year average for the month of September, we expect the 2023/2024 fiscal year sales tax revenues to end the fiscal year approximately 4% below actual receipts from the prior fiscal year. We have budgeted sales tax revenues for the 2024/2025 fiscal year with no growth over the budgeted sales tax revenues from the 2023/2024 fiscal year. While we have some growth in the community the decrease was unexpected, Staff feels a conservative approach is best at this time due to the uncertainties and volatility of the economy.



With overall expenses increasing at a higher rate than revenues, the staff must make decisions to ensure the ongoing success of the City. The City is committed to the management of expenditures with a strong focus on lean and efficient operations and competitive third-party contracts. During the FY2025 year, the

City plans to continue a course of action intended to improve revenues across the board to ensure continuation of important services, while continuing to practice approved bidding and purchasing procedures to find the best value for the taxpayer's dollar. The City has chosen to continue to invest in the employees in FY2025 with a 3% COLA increase for most departments with Fire receiving step increases to remain competitive in FY2025. It is no small feat to protect, provide, and maintain a safe and functioning City for our citizens. Our Staff is to be commended to for the results of their service to the Citizens of Neosho.

We continue to focus on building strong relationships with our partners in education, business, economic development, and our community in general. Great strides have been achieved, as we continue to help Neosho grow at a pace that complements our infrastructure and encourages new construction, new developments, and new citizens. The City continues our partnership with the Neosho Area Chamber of Commerce in the promoting and beautification of the City and we will continue into Fiscal Year 2025 in the same direction and collaborative spirit.

Water loss remains a top priority for the City's Utilities Departments. Public Works has identified the downtown upper-pressure zone to have the largest amount of water loss. In FY2024, installation of additional magnetic field meters have been installed in that area to further isolate locations for main repair or replacement. The water and wastewater revenues were reviewed, and an annual increase was included in FY2025. This will allow for continuous infrastructure improvements as highlighted in the twenty-year plans for water and sewer lines as well as to the Wastewater and Filtration plants in the future.

The debts of the City continue to receive careful oversight by the Staff. Our responsibility as a City is to ensure that we service these debts accordingly. In Fiscal Year 2023, the final payment for the 2012 TIF/Street debt was made. The City's debts have all been refinanced during the last nine years to take advantage of better interest rates without extending the terms of the debt. The City maintains a Standard & Poor's rating of 'A', which is equivalent to an A+ rating if we were to issue General Obligation Debt. Receiving Standard & Poor's 'A' rating demonstrates the priority we have placed on reducing our debts and honoring our ethical obligation to make these annual payments. Future debt is being considered for the construction of a Public Safety Center and the repair and replacement of the water and wastewater system as a result of the repair and replacement plan. Funds to repay this debt will be from the Public Safety tax passed in June 2020 and the water and wastewater user fees respectively. The Cities priority is to continue to maintain strong reserves now and into the future.

| Issuance | Fund               | FY2024             | 9/30/2024      | Final Payment |
|----------|--------------------|--------------------|----------------|---------------|
|          |                    | Principal Payments | Ending Balance |               |
|          | 2009 Wastewater    | 304,100.00         | 1,607,300.00   | 7/1/2030      |
|          | 2011 Water         | 497,000.00         | 4,062,000.00   | 1/1/2033      |
|          | 2021 Street/Bridge | 224,950.00         | 457,706.95     | 5/1/2027      |
|          | 2021 Senior Center | 51,010.00          | 57,458.61      | 5/1/2027      |
|          | 2021 Auditorium    | 204,040.00         | 229,834.44     | 5/1/2027      |
|          | 2016 Golf Course   | 190,000.00         | 1,465,000.00   | 5/1/2031      |
|          | Total              | 1,471,100.00       | 7,879,300.00   |               |

As we look to the future, both short term and long term, we must recognize those needs that benefit the majority of our Citizens. We will continue to utilize the five-year street plan that provides sealing and repaving for City streets each year. By using our GIS system, we have developed a plan that outlines the roads with the highest priority and a yearly projection for crack seal, slurry seal and overlay.

The City's overall financial position will continue to be monitored daily to ensure accountability and compliance. The City maintains a 60-day reserve in some funds, which is recommended by our independent auditors. For most of the funds, the City goes beyond the recommended 60 days and has kept

a 90-day reserve in recent years. Fiscal Year 2025 a 90-day reserve in the General Fund projected expenditures and other financing is calculated to be \$1,339,586.63. The projected unrestricted ending General Fund balance is expected to be \$6,911,207.86 and is the equivalent of 552 days of reserves. As a result of the prior increased sales tax revenues and careful examination of our expenditures the General Fund balance is forecasted to remain in a healthy position after the FY2024 year. The ½ of 1% Public Safety tax will be funding equipment purchases and salary increases for our Police and Fire Department in FY 2025. The City Staff are taking advantage of these extra funds to repair and replace some of the City's buildings and equipment. Discussions have begun with an architectural firm in FY2024 for the Public Safety Center. Preliminary concept designs are expected in FY2025 in addition to the breaking of ground for the new Public Safety Center.

There are always fiscal challenges for a City in any economic atmosphere. We see revenues from the 1% sales tax experiencing very slow growth in prior years. With continued uncertainty of the current inflation and economy, it is extremely important to focus on our fiscal responsibilities. Unfortunately, the cost of utilities, insurance, wages, etc. each year, grows at a higher rate than the revenues. Staff must be diligent in keeping costs down and operating their departments as efficiently as possible through proper bidding procedures and careful consideration of departmental needs. Revenues must also be examined and monitored daily. We must find other sources of revenue to offset the continuous increase in operating expenses. Whether it be the passage of a Use Tax or increase in the general tax in the future, raising Property Taxes, or the continuation of utilizing Grants to offset our expenses, we need to engage our community in these discussions. Each of these options must be carefully explored and considered. It is necessary to have careful and concise planning to fulfill obligations to both debtors and the citizens.

Respectfully,

David Kennedy  
City Manager

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Capital Improvement Plan



**City of Neosho**  
**Forecasted Revenues**

| Fund/Department          | TX<br>Taxes   | IR<br>Intergovernmental | LP<br>Licenses & Permits | CH<br>Charges for Services | FF<br>Fines & Forfeitures | MS<br>Miscellaneous | OS<br>Other Sources | Total         |
|--------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------------------|---------------------|---------------|
| General Fund             |               |                         |                          |                            |                           |                     |                     |               |
| General Admin            | 4,419,284.00  | 132,000.00              | 40,342.00                | -                          | -                         | 725,000.00          | 22,860.00           | 5,339,486.00  |
| City Clerk               | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Communication & Events   | -             | -                       | -                        | 24,000.00                  | -                         | -                   | 22,500.00           | 46,500.00     |
| Development Services     | -             | -                       | 116,932.00               | -                          | -                         | -                   | 50,000.00           | 166,932.00    |
| Recycle Center           | -             | 142,261.00              | -                        | -                          | -                         | -                   | -                   | 142,261.00    |
| Police Department        | 100,000.00    | 2,160.00                | 500.00                   | -                          | 268,442.00                | 7,500.00            | 1,237,547.00        | 1,616,149.00  |
| Municipal Court          | -             | -                       | -                        | -                          | 17,400.00                 | -                   | -                   | 17,400.00     |
| Information Technology   | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Fleet Maintenance        | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Emergency Management     | -             | -                       | -                        | -                          | -                         | -                   | 20,144.00           | 20,144.00     |
| Human Resources          | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Airport                  | -             | 680,000.00              | -                        | 174,320.00                 | -                         | -                   | 5,660.00            | 859,980.00    |
| Public Safety Tax        | 1,546,225.00  | -                       | -                        | -                          | -                         | 55,000.00           | -                   | 1,601,225.00  |
| IOOF Cemetery            | -             | -                       | -                        | 32,000.00                  | -                         | 3,500.00            | -                   | 35,500.00     |
| Subtotal                 | 6,065,509.00  | 956,421.00              | 157,774.00               | 230,320.00                 | 285,842.00                | 791,000.00          | 1,358,711.00        | 9,845,577.00  |
| Police Grants Fund       | -             | 16,042.00               | -                        | -                          | -                         | -                   | 2,310.00            | 18,352.00     |
| Fire Department Fund     | 976,309.00    | -                       | -                        | -                          | -                         | -                   | 1,521,690.00        | 2,497,999.00  |
| Drainage Department Fund | 407,468.00    | 7,200,936.00            | -                        | -                          | -                         | 18,500.00           | -                   | 7,626,904.00  |
| Parks Department Fund    | 811,454.00    | -                       | -                        | 5,800.00                   | -                         | 23,214.00           | 743,380.00          | 1,583,848.00  |
| Streets Department Fund  | 1,498,524.00  | 24,025.00               | -                        | -                          | -                         | 70,321.00           | -                   | 1,592,870.00  |
| SHOP with a Hero Fund    | -             | -                       | -                        | -                          | -                         | 17,600.00           | -                   | 17,600.00     |
| D.A.R.E. Fund            | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Golf Course Fund         | -             | -                       | -                        | -                          | -                         | 575,000.00          | 541,738.00          | 1,116,738.00  |
| Hotel/Motel Fund         | 95,317.00     | -                       | -                        | -                          | -                         | 8,992.00            | -                   | 104,309.00    |
| TIF Fund                 | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| Abbott Brothers BSP Fund | -             | -                       | -                        | 2,700.00                   | -                         | 1,449.00            | -                   | 4,149.00      |
| Morse Park Fund          | -             | -                       | -                        | -                          | -                         | 113.00              | -                   | 113.00        |
| Auditorium Fund          | 509,334.00    | -                       | -                        | -                          | -                         | 67,888.00           | -                   | 577,222.00    |
| Senior Center Fund       | 169,780.00    | -                       | -                        | -                          | -                         | 6,970.00            | -                   | 176,750.00    |
| Capital Improvement Fund | 336,204.00    | -                       | -                        | -                          | -                         | 13,969.00           | 22,460,116.00       | 22,810,289.00 |
| Street Bridge Fund       | 339,502.00    | -                       | -                        | -                          | -                         | 20,000.00           | -                   | 359,502.00    |
| Subtotal                 | 5,143,892.00  | 7,241,003.00            | -                        | 8,500.00                   | -                         | 824,016.00          | 25,269,234.00       | 38,486,645.00 |
| 2012A Series             | -             | -                       | -                        | -                          | -                         | -                   | -                   | -             |
| 2016 Series              | -             | -                       | -                        | -                          | -                         | -                   | 241,738.00          | 241,738.00    |
| 2021 Series              | -             | -                       | -                        | -                          | -                         | -                   | 507,002.00          | 507,002.00    |
| Subtotal                 | -             | -                       | -                        | -                          | -                         | -                   | 748,740.00          | 748,740.00    |
| Total Government Funds   | 11,209,401.00 | 8,197,424.00            | 157,774.00               | 238,820.00                 | 285,842.00                | 1,615,016.00        | 27,376,685.00       | 49,080,962.00 |

| Proprietary Funds                    | Taxes         | Intergovernmental | Licenses & Permits | Charges for Services | Fines & Forfeitures | Miscellaneous | Other Sources |               |
|--------------------------------------|---------------|-------------------|--------------------|----------------------|---------------------|---------------|---------------|---------------|
| Internal Service Fun                 | -             | -                 | -                  | -                    | -                   | 1,112,018.00  | -             | 1,112,018.00  |
| Subtotal                             | -             | -                 | -                  | -                    | -                   | 1,112,018.00  | -             | 1,112,018.00  |
| Enterprise Fund                      |               |                   |                    |                      |                     |               |               |               |
| Water Admin                          | -             | -                 | -                  | 4,653,979.00         | -                   | 195,475.00    | -             | 4,849,454.00  |
| Distribution & Maintenance           | -             | -                 | -                  | -                    | -                   | -             | 250,000.00    | 250,000.00    |
| Meter Replacement                    | -             | -                 | -                  | 188,000.00           | -                   | -             | 1,179,198.00  | 1,367,198.00  |
| Filtration                           | -             | 132,000.00        | -                  | -                    | -                   | -             | -             | 132,000.00    |
| Wastewater                           | -             | -                 | -                  | 3,674,021.00         | -                   | -             | 1,910,666.00  | 5,584,687.00  |
| TIF Debt (2012 Series)               | -             | -                 | -                  | -                    | -                   | -             | -             | -             |
| Water/Wastewater Debt                | -             | -                 | -                  | -                    | -                   | -             | -             | -             |
| Subtotal                             | -             | 132,000.00        | -                  | 8,516,000.00         | -                   | 195,475.00    | 3,339,864.00  | 14,407,375.00 |
| Total Proprietary & Enterprise Funds | -             | 132,000.00        | -                  | 8,516,000.00         | -                   | 1,307,493.00  | 3,339,864.00  | 15,519,393.00 |
| All Funds Total Revenues             | 11,209,401.00 | 8,329,424.00      | 157,774.00         | 8,754,820.00         | 285,842.00          | 2,922,509.00  | 30,716,549.00 | 62,376,319.00 |

**City of Neosho**  
**FY2022 Budgeted Expenditures**

| Fund/Department               | PR<br>Payroll       | SP<br>Supplies    | MC<br>Maintenance | SV<br>Services      | UT<br>Utilities   | OT<br>Other Expenses | CIP<br>Capital       | OU<br>Other Uses    | DS<br>Debt          | Total                |
|-------------------------------|---------------------|-------------------|-------------------|---------------------|-------------------|----------------------|----------------------|---------------------|---------------------|----------------------|
| <b>General Fund</b>           |                     |                   |                   |                     |                   |                      |                      |                     |                     |                      |
| General Admin                 | 387,926.00          | 15,600.00         | 27,575.00         | 153,092.00          | 38,355.00         | 2,908.00             | -                    | 2,124,412.00        | -                   | 2,749,868.00         |
| City Clerk                    | 86,696.00           | 1,020.00          | -                 | 34,701.00           | -                 | 1,128.00             | 6,500.00             | -                   | -                   | 130,045.00           |
| Communications & Events       | -                   | -                 | -                 | -                   | -                 | 36,500.00            | -                    | -                   | -                   | 36,500.00            |
| Development Services          | 273,101.00          | 17,217.00         | 1,575.00          | 67,789.00           | 3,221.00          | 3,675.00             | -                    | -                   | -                   | 366,578.00           |
| Recycle Center                | 146,185.00          | 1,944.00          | 5,500.00          | 10,536.00           | 7,045.00          | 3,500.00             | 65,261.00            | -                   | -                   | 239,971.00           |
| Police Department             | 1,943,652.00        | 26,013.00         | 40,749.00         | 1,078,110.00        | 22,566.00         | 122,407.00           | 80,000.00            | 52,310.00           | -                   | 3,365,807.00         |
| Municipal Court               | 156,827.00          | 2,877.00          | 500.00            | 9,850.00            | 2,837.00          | 5,120.00             | -                    | -                   | -                   | 178,011.00           |
| Information Technology        | 49,712.00           | 260.00            | -                 | 53,243.00           | -                 | 699.00               | -                    | -                   | -                   | 103,914.00           |
| Fleet Maintenance             | -                   | 2,100.00          | -                 | -                   | -                 | 17,200.00            | -                    | -                   | -                   | 19,300.00            |
| Emergency Management          | -                   | -                 | -                 | 16,821.00           | 3,323.00          | -                    | -                    | -                   | -                   | 20,144.00            |
| Human Resources               | 87,777.00           | 4,747.00          | -                 | 3,400.00            | -                 | 1,776.00             | -                    | -                   | -                   | 97,700.00            |
| Airport                       | 91,079.00           | 3,235.00          | 12,500.00         | 28,645.00           | 18,722.00         | 138,500.00           | 754,000.00           | -                   | -                   | 1,046,681.00         |
| Public Safety Tax             | -                   | -                 | -                 | -                   | -                 | -                    | -                    | 2,144,454.00        | -                   | 2,144,454.00         |
| IOOF Cemetery                 | 13,014.00           | 925.00            | 11,576.00         | 134,226.00          | 571.00            | 420.00               | 39,000.00            | -                   | -                   | 199,732.00           |
| <b>Subtotal</b>               | <b>3,235,969.00</b> | <b>75,938.00</b>  | <b>99,975.00</b>  | <b>1,590,413.00</b> | <b>96,640.00</b>  | <b>333,833.00</b>    | <b>944,761.00</b>    | <b>4,321,176.00</b> | <b>-</b>            | <b>10,698,705.00</b> |
| <b>Police Grants Fund</b>     | <b>8,725.00</b>     | <b>9,180.00</b>   | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>-</b>            | <b>17,905.00</b>     |
| Fire Department Fund          | 1,957,948.00        | 10,590.00         | 61,100.00         | 105,744.00          | 32,522.00         | 82,633.00            | 484,985.00           | -                   | -                   | 2,735,522.00         |
| Drainage Department Fund      | 89,300.00           | -                 | 36,750.00         | 10,650.00           | 3,198.00          | 8,099.00             | 7,703,160.00         | -                   | -                   | 7,851,157.00         |
| Parks Department Fund         | 350,211.00          | 19,000.00         | 69,000.00         | 78,563.00           | 26,794.00         | 36,669.00            | 987,652.00           | 66,530.00           | -                   | 1,634,419.00         |
| Streets Department Fund       | 604,135.00          | 115,175.00        | 62,500.00         | 639,584.00          | 193,141.00        | 50,303.00            | 229,500.00           | 5,660.00            | -                   | 1,899,998.00         |
| SHOP with a Hero Fund         | -                   | -                 | -                 | -                   | -                 | 17,500.00            | -                    | -                   | -                   | 17,500.00            |
| D.A.R.E. Fund                 | -                   | -                 | -                 | -                   | -                 | -                    | -                    | -                   | -                   | -                    |
| Golf Course Fund              | -                   | -                 | -                 | 615,419.00          | -                 | 270.00               | 300,000.00           | -                   | 241,738.00          | 1,157,427.00         |
| Hotel/Motel Fund              | -                   | -                 | -                 | -                   | 600.00            | 68,200.00            | -                    | 2,860.00            | -                   | 71,660.00            |
| TIF Fund                      | -                   | -                 | -                 | -                   | -                 | -                    | -                    | -                   | -                   | -                    |
| Abbott Brothers BSP Fund      | -                   | -                 | -                 | 653.00              | -                 | 158.00               | -                    | -                   | -                   | 811.00               |
| Morse Park Fund               | -                   | -                 | -                 | -                   | -                 | -                    | -                    | -                   | -                   | -                    |
| Auditorium Fund               | 71,691.00           | 3,675.00          | 38,070.00         | 39,810.00           | 60,811.00         | -                    | 85,000.00            | -                   | 213,718.00          | 512,775.00           |
| Senior Center Fund            | 9,120.00            | 1,000.00          | 12,500.00         | 13,331.00           | 30,248.00         | 3,525.00             | 25,000.00            | -                   | 53,680.00           | 148,404.00           |
| Capital Improvement Fund      | -                   | -                 | -                 | -                   | -                 | -                    | 11,230,058.00        | 883,476.00          | -                   | 12,113,534.00        |
| Street Bridge Fund            | -                   | -                 | -                 | -                   | -                 | -                    | -                    | 1,000,000.00        | 239,604.00          | 1,239,604.00         |
| <b>Subtotal</b>               | <b>3,091,130.00</b> | <b>158,620.00</b> | <b>279,920.00</b> | <b>1,503,754.00</b> | <b>347,314.00</b> | <b>267,357.00</b>    | <b>21,045,355.00</b> | <b>1,958,526.00</b> | <b>748,740.00</b>   | <b>29,400,716.00</b> |
| <b>2012A Series</b>           | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>-</b>            | <b>-</b>             |
| <b>2016 Series</b>            | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>246,250.00</b>   | <b>246,250.00</b>    |
| <b>2021 Series</b>            | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>506,401.00</b>   | <b>506,401.00</b>    |
| <b>Subtotal</b>               | <b>-</b>            | <b>-</b>          | <b>-</b>          | <b>-</b>            | <b>-</b>          | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>752,651.00</b>   | <b>752,651.00</b>    |
| <b>Total Government Funds</b> | <b>6,327,099.00</b> | <b>234,558.00</b> | <b>379,895.00</b> | <b>3,094,167.00</b> | <b>443,954.00</b> | <b>601,190.00</b>    | <b>21,990,116.00</b> | <b>6,279,702.00</b> | <b>1,501,391.00</b> | <b>40,852,072.00</b> |

| Proprietary Funds                    | Payroll      | Supplies   | Maintenance | Services     | Utilities    | Other Expenses | Capital       | Other Uses   | Debt         |               |
|--------------------------------------|--------------|------------|-------------|--------------|--------------|----------------|---------------|--------------|--------------|---------------|
| Internal Service Fun                 | -            | -          | -           | -            | -            | 1,111,918.00   | -             | -            | -            | 1,111,918.00  |
| Subtotal                             | -            | -          | -           | -            | -            | 1,111,918.00   | -             | -            | -            | 1,111,918.00  |
| Enterprise Fund                      |              |            |             |              |              |                |               |              |              |               |
| Water Admin                          | 442,167.00   | 64,952.00  | 1,000.00    | 722,590.00   | 5,435.00     | 3,427.00       | 5,000.00      | -            | -            | 1,244,571.00  |
| Distribution & Maintenance           | 608,606.00   | 4,200.00   | 261,260.00  | 51,251.00    | 14,300.00    | 265,972.00     | 1,375,324.00  | 250,000.00   | -            | 2,830,913.00  |
| Meter Replacement                    | 302,860.00   | -          | -           | -            | -            | -              | -             | 1,179,198.00 | -            | 1,482,058.00  |
| Filtration                           | -            | 200.00     | 25,000.00   | 394,497.00   | 364,650.00   | 1,510.00       | 324,000.00    | -            | -            | 1,109,857.00  |
| Wastewater                           | -            | 525.00     | 88,000.00   | 1,047,924.00 | 272,247.00   | 633,558.00     | 1,948,078.00  | 1,688,031.00 | -            | 5,678,363.00  |
| TIF Debt (2012 Series)               | -            | -          | -           | -            | -            | -              | -             | -            | -            | -             |
| Water/Wastewater Debt                | -            | -          | -           | -            | -            | -              | -             | -            | 927,154.00   | 927,154.00    |
| Subtotal                             | 1,353,633.00 | 69,877.00  | 375,260.00  | 2,216,262.00 | 656,632.00   | 904,467.00     | 3,652,402.00  | 3,117,229.00 | 927,154.00   | 13,272,916.00 |
| Total Proprietary & Enterprise Funds | 1,353,633.00 | 69,877.00  | 375,260.00  | 2,216,262.00 | 656,632.00   | 2,016,385.00   | 3,652,402.00  | 3,117,229.00 | 927,154.00   | 14,384,834.00 |
| All Funds Total Expenditures         | 7,680,732.00 | 304,435.00 | 755,155.00  | 5,310,429.00 | 1,100,586.00 | 2,617,575.00   | 25,642,518.00 | 9,396,931.00 | 2,428,545.00 | 55,236,906.01 |

City of Neosho  
FY2025  
Summary By Department

| Fund                      | Department                 | FY2025 Estimated<br>Beginning Fund<br>Balance | Budgeted Revenues | Budgeted<br>Expenditures | Budgeted Other<br>Sources | Budgeted Other Uses | Budgeted Change In<br>Fund Balance | FY2025 Estimated<br>Ending Fund Balance |
|---------------------------|----------------------------|-----------------------------------------------|-------------------|--------------------------|---------------------------|---------------------|------------------------------------|-----------------------------------------|
| General Fund              | 110-Admin                  | \$ 8,746,027.23                               | \$ 5,316,626.00   | \$ 625,456.00            | \$ 22,860.00              | \$ 2,124,412.00     | \$ 2,589,618.00                    | \$ 8,436,128.23                         |
|                           | 111-Clerk                  |                                               | \$ -              | \$ 123,545.00            | \$ -                      | \$ 6,500.00         | \$ (130,045.00)                    |                                         |
|                           | 113-Events                 |                                               | \$ 24,000.00      | \$ 36,500.00             | \$ 22,500.00              | \$ -                | \$ 10,000.00                       |                                         |
|                           | 114-Lampo                  |                                               | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               |                                         |
|                           | 115-Development            |                                               | \$ 116,932.00     | \$ 366,578.00            | \$ 50,000.00              | \$ -                | \$ (199,646.00)                    |                                         |
|                           | 118-Recycle Center         |                                               | \$ 142,261.00     | \$ 174,710.00            | \$ -                      | \$ 65,261.00        | \$ (97,710.00)                     |                                         |
|                           | 120-Police                 |                                               | \$ 378,602.00     | \$ 3,233,497.00          | \$ 1,237,547.00           | \$ 132,310.00       | \$ (1,749,658.00)                  |                                         |
|                           | 125-Municipal Court        |                                               | \$ 17,400.00      | \$ 178,011.00            | \$ -                      | \$ -                | \$ (160,611.00)                    |                                         |
|                           | 141-IT                     |                                               | \$ -              | \$ 103,914.00            | \$ -                      | \$ -                | \$ (103,914.00)                    |                                         |
|                           | 143-Fleet Mtce             |                                               | \$ -              | \$ 19,300.00             | \$ -                      | \$ -                | \$ (19,300.00)                     |                                         |
|                           | 144-Emergency Mgmt         |                                               | \$ -              | \$ 20,144.00             | \$ 20,144.00              | \$ -                | \$ -                               |                                         |
|                           | 145-HR                     |                                               | \$ -              | \$ 97,700.00             | \$ -                      | \$ -                | \$ (97,700.00)                     |                                         |
|                           | 160-Airport                |                                               | \$ 854,320.00     | \$ 292,681.00            | \$ 5,660.00               | \$ 754,000.00       | \$ (186,701.00)                    |                                         |
|                           | 199-Public Safety          | 360,917.33                                    | \$ 1,601,225.00   | \$ -                     | \$ -                      | \$ 2,144,454.00     | \$ (543,229.00)                    | \$ (182,311.67)                         |
|                           | 204-Cemetery               |                                               | \$ 35,500.00      | \$ 160,732.00            | \$ -                      | \$ 39,000.00        | \$ (164,232.00)                    |                                         |
| Fire Department           | 130- Fire                  | \$ 803,877.36                                 | \$ 976,309.00     | \$ 2,250,537.00          | \$ 1,521,690.00           | \$ 484,985.00       | \$ (237,523.00)                    | \$ 566,354.36                           |
| Drainage Sales Tax        | 170-Drainage               | \$ 1,391,767.86                               | \$ 7,626,904.00   | \$ 147,997.00            | \$ -                      | \$ 7,703,160.00     | \$ (224,253.00)                    | \$ 1,167,514.86                         |
| Senior Center             | 175 Senior Center          | \$ 296,602.69                                 | \$ 176,750.00     | \$ 69,724.00             | \$ -                      | \$ 78,680.00        | \$ 28,346.00                       | \$ 324,948.69                           |
| Parks and Recreation      | 180-Parks & Recreation     | \$ 509,083.76                                 | \$ 840,468.00     | \$ 580,237.00            | \$ 743,380.00             | \$ 1,054,182.00     | \$ (50,571.00)                     | \$ 458,512.76                           |
| Auditorium/Lampo          | 195-Auditorium             | \$ 1,284,905.94                               | \$ 577,222.00     | \$ 214,057.00            | \$ -                      | \$ 298,718.00       | \$ 64,447.00                       | \$ 1,349,352.94                         |
| Capital Improvement       | 300-Capital Improvement    | \$ 324,603.99                                 | \$ 350,173.00     | \$ 11,230,058.00         | \$ 11,230,058.00          | \$ 441,738.00       | \$ (91,565.00)                     | \$ 233,038.99                           |
| Hotel/Motel               | 310-Hotel/Motel            | \$ 267,687.94                                 | \$ 104,309.00     | \$ 69,120.00             | \$ -                      | \$ 25,360.00        | \$ 9,829.00                        | \$ 277,516.94                           |
| TIF                       | 360-TIF                    | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Golf Course               | 450- Golf Course           | \$ 275,769.20                                 | \$ 575,000.00     | \$ 615,689.00            | \$ 541,738.00             | \$ 541,738.00       | \$ (40,689.00)                     | \$ 235,080.20                           |
| Abbott Brothers Trust     | 700-Abbott Brothers Trust  | \$ 48,812.92                                  | \$ 4,149.00       | \$ 811.00                | \$ -                      | \$ -                | \$ 3,338.00                        | \$ 52,150.92                            |
| Morse Park Trust          | 710- Morse Park Trust      | \$ 3,781.48                                   | \$ 113.00         | \$ -                     | \$ -                      | \$ -                | \$ 113.00                          | \$ 3,894.48                             |
| Street Sales Tax          | 800-Street Department      | \$ 2,108,681.43                               | \$ 1,592,870.00   | \$ 1,664,838.00          | \$ -                      | \$ 235,160.00       | \$ (307,128.00)                    | \$ 1,801,553.43                         |
| Street /Bridge            | 900-Street Bridge          | \$ 1,122,175.76                               | \$ 359,502.00     | \$ 1,000,000.00          | \$ -                      | \$ 239,604.00       | \$ (880,102.00)                    | \$ 242,073.76                           |
| Police Grants             | 120- Police Grants         | \$ 10,338.00                                  | \$ 16,042.00      | \$ 17,905.00             | \$ 2,310.00               | \$ -                | \$ 447.00                          | \$ 10,785.00                            |
| Police Donations          | 124-Police Donation        | \$ 1,376.00                                   | \$ 17,600.00      | \$ 17,500.00             | \$ -                      | \$ -                | \$ 100.00                          | \$ 1,476.00                             |
| D.A.R.E Program           | 126-D.A.R.E.               | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2012               | 212-2012 Series            | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2013               | 213-2013 Series            | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2014               | 214-2014 Series            | \$ -                                          | \$ -              | \$ -                     | \$ -                      | \$ -                | \$ -                               | \$ -                                    |
| Series 2016               | 216-2016 Series            | \$ 314,375.54                                 | \$ -              | \$ 246,250.00            | \$ 241,738.00             | \$ -                | \$ (4,512.00)                      | \$ 309,863.54                           |
| Series 2021               | 221-2021 Series            | \$ 3,117.51                                   | \$ -              | \$ 506,401.00            | \$ 884,400.00             | \$ -                | \$ 377,999.00                      | \$ 381,116.51                           |
| Employee Health Insurance | 290-Employee Health Insura | \$ 149,545.17                                 | \$ 1,112,018.00   | \$ 1,111,918.00          | \$ -                      | \$ -                | \$ 100.00                          | \$ 149,645.17                           |
| Water/Wastewater          | 500-Water Wastewater       | \$ 6,764,848.70                               | \$ 8,843,475.00   | \$ 9,354,587.00          | \$ 3,339,864.00           | \$ 3,117,229.00     | \$ (288,477.00)                    | \$ 6,476,371.70                         |
|                           |                            |                                               |                   |                          |                           |                     | \$ -                               | \$ -                                    |
| Totals                    |                            | \$ 24,788,295.82                              | \$ 31,659,770.00  | \$ 34,530,397.00         | \$ 19,863,889.00          | \$ 19,486,491.00    | \$ (2,493,229.00)                  | \$ 22,295,066.82                        |

## FTE's Budgeted

|                          | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 | FY2025 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| General Admin            | 4.50   | 4.50   | 4.17   | 5.75   | 4.67   | 4.69   | 5.19   | 5.19   |
| City Clerk ****          | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 0.80   | 0.80   | 0.84   |
| Communcations and Events | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Lampo                    | 0.25   | 0.25   | 0.25   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Development Services     | 3.00   | 2.00   | 2.00   | 3.00   | 3.00   | 3.00   | 4.00   | 4.00   |
| Recycle Center           | 2.00   | 2.00   | 2.00   | 2.00   | 2.00   | 3.00   | 3.00   | 3.00   |
| Police                   | 28.00  | 29.00  | 29.00  | 29.00  | 29.00  | 29.00  | 25.00  | 25.00  |
| Municipal Court          | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   |
| IT                       | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| Fleet Maintenance        | 1.00   | 1.00   | 1.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| HR                       | 2.00   | 2.00   | 2.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| Airport                  | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| I.O.O.F. Cemetery        | -      | -      | 0.00   | 0.00   | 0.00   | 0.20   | 0.20   | 0.16   |
| Fire**                   | 28.00  | 28.00  | 27.00  | 27.00  | 27.00  | 27.00  | 27.00  | 27.00  |
| Drainage                 | 2.00   | 2.00   | 2.00   | 2.00   | 2.00   | 2.00   | 1.00   | 1.00   |
| Parks                    | 5.00   | 6.00   | 7.25   | 7.50   | 7.00   | 7.00   | 6.00   | 6.00   |
| Parks Recreation         | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Street                   | 7.00   | 8.00   | 8.00   | 8.00   | 8.00   | 8.00   | 9.00   | 9.00   |
| Golf Course*             | 3.00   | 4.00   | 4.00   | 3.00   | 3.05   | 4.00   | 4.00   | 0.00   |
| Auditorium               | 0.25   | 0.25   | 0.38   | 0.38   | 0.63   | 0.65   | 1.15   | 1.15   |
| Senior Center            | 1.25   | 1.25   | 0.15   | 0.15   | 0.15   | 0.16   | 0.16   | 0.16   |
| Capital Improvement      | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Water Admin              | 5.75   | 5.75   | 5.75   | 5.75   | 6.50   | 6.50   | 6.50   | 6.50   |
| Wastewater***            | 0.00   | 0.00   | 1.00   | 1.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Meter Replacement        | 4.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   | 3.00   |
| D&M                      | 7.00   | 7.00   | 8.00   | 9.00   | 9.00   | 9.00   | 9.00   | 9.00   |
| Filtration***            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Totals                   | 110    | 112    | 113    | 114    | 112    | 114    | 111    | 107    |

\* City contracted Golf Course March 2024

\*\*2011 started out with 18 Fire. In May of 2011, the City received the SAFER grant allowing 9 more to be hired.

\*\*\*In FY16 the City contracted Alliance Water Resources for Wastewater and Filtration

\*\*\*\* In FY2023 Allocated City Clerk with Cemetery

## General Admin

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

This office conducts the overall administration of the City (as prescribed by the Neosho City Charter and Missouri Revised State Statutes), coordinates the activities of the City, and carries out all policies and actions of the the City Council. The Manager informs and advises Council on matters of concern to the City. The Manager coordinates the activities of all departments. Funding sources include a 1% sales tax, property tax, license & permit fees, charges for services, and fines & forfeitures.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 4,904,455.56        | 4,396,949.00          | 3,758,084.79               | 4,419,284.00           |
| Intergovernmental    | -                   | -                     | -                          | 132,000.00             |
| Licenses & Permits   | 52,287.72           | 54,794.00             | 34,888.89                  | 40,342.00              |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 654,701.30          | 450,706.00            | 517,429.00                 | 725,000.00             |
| Other Sources        | (3,624.00)          | 22,860.00             | 17,154.00                  | 22,860.00              |
| <b>Total</b>         | <b>5,607,820.58</b> | <b>4,925,309.00</b>   | <b>4,327,556.68</b>        | <b>5,339,486.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 339,150.16          | 370,684.00            | 279,895.03                 | 387,926.00             |
| Supplies & Materials          | 31,362.55           | 15,340.00             | 11,093.54                  | 15,600.00              |
| Maintenance & Repair          | 4,948.03            | 22,575.00             | 4,991.02                   | 27,575.00              |
| Contractual Services          | 74,093.41           | 153,259.00            | 79,976.86                  | 153,092.00             |
| Utilities                     | 41,686.14           | 46,165.01             | 29,222.35                  | 38,355.00              |
| Other Expenses                | 2,214.78            | 2,398.00              | 1,824.88                   | 2,908.00               |
| Capital                       | 43,243.40           | -                     | -                          | -                      |
| Other Uses                    | 1,951,129.68        | 2,530,802.00          | 833,422.67                 | 2,124,412.00           |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>2,487,828.15</b> | <b>3,141,223.01</b>   | <b>1,240,426.35</b>        | <b>2,749,868.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Membership Training/Travel** - Increase for need

**Facility Maintenance-** Increase \$5,000 for repairs

**Capital:** City Hall Exterior Façade and HVAC \$450,000

**Computer Software-**Increase for license upgrades

**Heating Fuels-**Increase for need

#### Decreases:

**Cigarette Tax-** Decreased for Historical Actuals

**Occupational Licenses-** Decrease for Contractors and Solicitor Peddler fees

|                           | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|---------------------------|---------------|-----------------------|-----------------------|------------------------|
| <b>Staffing Levels</b>    |               |                       |                       |                        |
| City Manager              | 1             | 1                     | 1                     | 1                      |
| City Attorney             | 1             | 1                     | 1                     | 1                      |
| City Prosecutor           | 1             | 1                     | 1                     | 1                      |
| Facility Maintenance      | 0             | 0                     | 0                     | 0                      |
| Administrative Assistance | 1.5           | 1.5                   | 1.5                   | 1.5                    |
| License Clerk             | 0             | 0                     | 0                     | 0                      |
| Event Coordinator         | 0             | 0.5                   | 0.5                   | 0.5                    |
| Custodian                 | 0.17          | 0.19                  | 0.19                  | 0.19                   |
| <b>DEPARTMENT TOTAL</b>   | <b>4.67</b>   | <b>5.19</b>           | <b>5.19</b>           | <b>5.19</b>            |

|               |
|---------------|
| General Admin |
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| Account                                  | Account Name                   | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|------------------------------------------|--------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| General Admin Revenues                   |                                |                        |                        |                              |                               |                              |
| 100-110-4010-110                         | Property Tax                   | 498,449.98             | 475,000.00             | 554,920.01                   | 554,920.01                    | 479,750.00                   |
| 100-110-4020-110                         | Financial Institution Tax      | 81.79                  | 300.00                 | 245.55                       | 245.55                        | 300.00                       |
| 100-110-4030-110                         | 1-Cent City Sales Tax          | 3,484,768.21           | 3,092,449.00           | 2,544,350.60                 | 3,392,467.47                  | 3,092,449.00                 |
| 100-110-4050-110                         | Cigarette Tax                  | 48,535.08              | 54,200.00              | 33,021.68                    | 44,028.91                     | 48,535.00                    |
| 100-110-4100-110                         | Occupation Licenses            | 52,287.72              | 54,794.00              | 34,888.89                    | 46,518.52                     | 40,342.00                    |
| 100-110-4130-110                         | Franchises                     | 872,620.50             | 775,000.00             | 625,546.95                   | 872,620.50                    | 798,250.00                   |
| 100-110-4200-110                         | Grant Revenue                  | -                      | -                      | -                            | -                             | 132,000.00                   |
| 100-110-4700-110                         | Interest Earned-General Fund   | 32,425.73              | 12,500.00              | 182,715.38                   | 243,620.51                    | 725,000.00                   |
| 100-110-4760-110                         | Insurance Proceeds             | -                      | -                      | -                            | -                             | -                            |
| 100-110-4790-110                         | Judgments                      | 619,672.20             | -                      | -                            | -                             | -                            |
| 100-110-4800-110                         | General Admin Miscellaneous    | 1,439.27               | 238,206.00             | 238,206.07                   | 317,608.09                    | -                            |
| 100-110-4820-110                         | General Admin Sale of Property | 1,164.10               | -                      | -                            | -                             | -                            |
| 100-110-4990-110                         | General Admin Donations        | -                      | -                      | -                            | -                             | -                            |
| 100-110-4031-110                         | 3% Recreational 420 Sales Tax  | -                      | 200,000.00             | 96,507.55                    | 128,676.73                    | -                            |
| <b>Total General Admin Revenues</b>      |                                | <b>\$ 5,611,444.58</b> | <b>\$ 4,902,449.00</b> | <b>\$ 4,310,402.68</b>       | <b>\$ 5,600,706.29</b>        | <b>\$ 5,316,626.00</b>       |
| General Admin Expenditures               |                                |                        |                        |                              |                               |                              |
| 100-110-5010-110                         | General Admin Salaries         | 251,921.40             | 267,428.00             | 208,320.39                   | 277,760.52                    | 274,640.00                   |
| 100-110-5020-110                         | General Admin Overtime         | 1,986.87               | 2,000.00               | 1,160.04                     | 1,546.72                      | 2,000.00                     |
| 100-110-5040-110                         | Acting City Mgr Per Diem       | 2,850.00               | 4,500.00               | 300.00                       | 400.00                        | 4,500.00                     |
| 100-110-5070-110                         | Availability Allowance         | -                      | -                      | -                            | -                             | -                            |
| 100-110-5170-110                         | General Admin Social Security  | 18,256.49              | 20,956.00              | 14,823.90                    | 19,765.20                     | 21,508.00                    |
| 100-110-5180-110                         | General Admin Retirement       | 13,448.92              | 13,697.00              | 9,440.30                     | 12,587.07                     | 16,869.00                    |
| 100-110-5190-110                         | General Admin Health Insurance | 30,048.29              | 39,199.00              | 27,743.57                    | 36,991.43                     | 40,455.00                    |
| 100-110-5210-110                         | General Admin Workers Comp.    | 11,123.68              | 11,999.00              | 11,074.98                    | 14,766.64                     | 12,314.00                    |
| 100-110-5260-110                         | General Admin Prof. Service    | 52,209.93              | 115,712.00             | 45,562.94                    | 60,750.59                     | 117,154.00                   |
| 100-110-5271-110                         | Master Bank Acct Fees          | 607.76                 | 1,000.00               | -                            | -                             | -                            |
| 100-110-5272-110                         | Investment Acct. Bank Fees     | 1,196.76               | 1,200.00               | -                            | -                             | -                            |
| 100-110-5290-110                         | County Collector Fees          | 17,811.09              | 19,000.00              | 19,411.60                    | 19,000.00                     | 19,190.00                    |
| 100-110-5300-110                         | General Admin Ins. & Bonds     | 2,267.87               | 16,347.00              | 15,002.32                    | 20,003.09                     | 16,748.00                    |
| 100-110-5330-110                         | General Admin Equipment Main   | 1,310.85               | 7,575.00               | 241.76                       | 322.35                        | 7,575.00                     |
| 100-110-5360-110                         | General Admin Memb/Train/Trv   | 1,599.75               | 2,905.00               | 1,133.85                     | 1,511.80                      | 7,405.00                     |
| 100-110-5380-110                         | Uniforms                       | -                      | -                      | -                            | -                             | 235.00                       |
| 100-110-5530-110                         | General Admin Fuels/Lubricants | 945.71                 | 525.00                 | 716.28                       | 955.04                        | 525.00                       |
| 100-110-5590-110                         | General Admin Gen. Supplies    | 31,362.55              | 15,340.00              | 11,093.54                    | 14,791.39                     | 15,600.00                    |
| 100-110-5700-110                         | General Admin Comp., Software  | 1,269.07               | 1,873.00               | 1,108.60                     | 1,478.13                      | 2,383.00                     |
| 100-999-5200-112                         | Unemployment Compensation      | 7,914.76               | 8,000.00               | 5,898.00                     | 7,864.00                      | 8,000.00                     |
| 100-999-5320-112                         | City Hall Facility Maintenance | 3,637.18               | 15,000.00              | 4,749.26                     | 6,332.35                      | 20,000.00                    |
| 100-999-5790-112                         | City Hall Capital              | 43,243.40              | -                      | -                            | -                             | -                            |
| 100-999-6300-112                         | City Hall Electricity          | 15,661.46              | 18,156.01              | 7,485.22                     | 9,980.29                      | 15,662.00                    |
| 100-999-6310-112                         | City Hall Heating Fuels        | 4,075.27               | 4,699.00               | 6,327.04                     | 8,436.05                      | 8,000.00                     |
| 100-999-6350-112                         | City Hall Phones               | 21,949.41              | 23,310.00              | 15,410.09                    | 20,546.79                     | 14,693.00                    |
| <b>Total General Admin Expenditures</b>  |                                | <b>\$ 536,698.47</b>   | <b>\$ 610,421.01</b>   | <b>\$ 407,003.68</b>         | <b>\$ 535,789.44</b>          | <b>\$ 625,456.00</b>         |
| General Admin Other Sources              |                                |                        |                        |                              |                               |                              |
| 100-000-3310-000                         | Transfer fm Hotel/Motel Admin  | 2,832.00               | 2,860.00               | 2,151.00                     | 2,868.00                      | 2,860.00                     |
| 100-000-3306-000                         | Transfer fm ARPA Investment    | (6,456.00)             | -                      | -                            | -                             | -                            |
| 100-000-3305-110                         | Transfer fm Public Safety      | -                      | 20,000.00              | 15,003.00                    | 20,004.00                     | 20,000.00                    |
| <b>Total General Admin Other Sources</b> |                                | <b>\$ (3,624.00)</b>   | <b>\$ 22,860.00</b>    | <b>\$ 17,154.00</b>          | <b>\$ 22,872.00</b>           | <b>\$ 22,860.00</b>          |



|               |
|---------------|
| General Admin |
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| Account                                                   | Account Name                 | FY2023<br>Actual        | FY2024<br>Budget        | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|------------------------------|-------------------------|-------------------------|------------------------------|-------------------------------|------------------------------|
| Account                                                   | Account Name                 | FY2023<br>Actual        | FY2024<br>Budget        | 6/30/2024<br>Actual          | FY2024<br>Actual              | FY2025<br>Budget             |
| General Admin Other Uses                                  |                              |                         |                         |                              |                               |                              |
| 100-000-3200-000                                          | Sales Tax to TIF             | -                       | -                       | -                            | -                             | -                            |
| 100-000-3202-000                                          | Transfer to Other Funds      | (21,092.21)             | -                       | -                            | -                             | -                            |
| 100-000-3203-000                                          | Transfer to Senior Center    | -                       | -                       | -                            | -                             | -                            |
| 100-000-3206-000                                          | Transfer to ARPA             | 14,741.89               | 307,307.00              | 62,222.67                    | 307,307.00                    | 222,635.00                   |
| 100-000-3206-170                                          | Transfer to Drainage         | -                       | 1,129,114.00            | -                            | 1,129,114.00                  | -                            |
| 100-000-3230-000                                          | Transfer to Fire fm General  | 1,292,316.00            | 714,751.00              | 536,067.00                   | 714,751.00                    | 654,927.00                   |
| 100-000-3240-000                                          | Transfer to GC fm General    | 194,664.00              | 120,000.00              | -                            | 120,000.00                    | 100,000.00                   |
| 100-000-3243-000                                          | Transfer to Parks Department | 470,500.00              | 50,000.00               | 37,503.00                    | 50,000.00                     | 676,850.00                   |
| 100-000-3285-112                                          | Trns to Capital Improvement  | -                       | 209,630.00              | 197,630.00                   | 209,630.00                    | 470,000.00                   |
| 100-000-3285-680                                          | Transfer to CDBG             | -                       | -                       | -                            | -                             | -                            |
| <b>Total General Admin Other Uses</b>                     |                              | <b>\$ 1,951,129.68</b>  | <b>\$ 2,530,802.00</b>  | <b>\$ 833,422.67</b>         | <b>\$ 2,530,802.00</b>        | <b>\$ 2,124,412.00</b>       |
|                                                           |                              |                         |                         |                              |                               |                              |
| Change in Fund Balance                                    |                              | 1,444,319.63            | (849,482.01)            | 1,511,882.58                 | 705,199.93                    | (903,128.00)                 |
| Change in Fund Balance without Public Safety              |                              | 956,319.85              | (1,080,501.01)          | 1,616,208.08                 | 344,282.60                    | (359,899.00)                 |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>General Admin Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 6,957,425.00</b>  | <b>\$ 8,401,744.63</b>  | <b>\$ 8,401,744.63</b>       | <b>\$ 8,401,744.63</b>        | <b>\$ 9,106,944.56</b>       |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>Total General Admin Funding Sources</b>                |                              | <b>\$ 16,066,390.63</b> | <b>\$ 17,036,126.63</b> | <b>\$ 16,078,127.57</b>      | <b>\$ 17,929,707.99</b>       | <b>\$ 18,952,521.56</b>      |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>Total General Admin Funding Uses</b>                   |                              | <b>\$ 7,664,646.00</b>  | <b>\$ 9,483,864.01</b>  | <b>\$ 6,164,500.36</b>       | <b>\$ 8,822,763.43</b>        | <b>\$ 10,748,705.00</b>      |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>General Admin Beginning Fund Balance"September 30"</b> |                              | <b>\$ 8,401,744.63</b>  | <b>\$ 7,552,262.62</b>  | <b>\$ 9,913,627.21</b>       | <b>\$ 9,106,944.56</b>        | <b>\$ 8,203,816.56</b>       |
|                                                           |                              |                         |                         |                              |                               |                              |
| Public Safety Fund                                        |                              | 1,313,277.47            | 1,544,296.47            | 1,208,951.97                 | 1,674,194.80                  | 1,130,965.80                 |
| IOOF Trust                                                |                              | 154,680.59              | 154,680.59              | 161,642.90                   | 161,642.90                    | 161,642.90                   |
|                                                           |                              |                         |                         |                              |                               |                              |
| Total Restricted Funds                                    |                              | 1,467,958.06            | 1,698,977.06            | 1,370,594.87                 | 1,835,837.70                  | 1,292,608.70                 |
|                                                           |                              |                         |                         |                              |                               |                              |
| <b>Unrestricted Funds</b>                                 |                              | <b>6,933,786.57</b>     | <b>5,853,285.56</b>     | <b>8,543,032.34</b>          | <b>7,271,106.86</b>           | <b>6,911,207.86</b>          |

|                                |                        |
|--------------------------------|------------------------|
| -----<br><b>90-Day Reserve</b> | <b>\$ 1,339,586.63</b> |
|--------------------------------|------------------------|

|              |        |
|--------------|--------|
| Days reserve | 551.17 |
|--------------|--------|

| General & Non-Departmental |          |
|----------------------------|----------|
| Health Insurance Rate      | 7,794.72 |
| Work Comp Rate             | 4.38%    |
| Retirement Rate            | 6.00%    |

-1591.75  
(170,317.25)

Payroll Detail

| FTE                   | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|-----------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Kennedy, David        | 1    | 102,742.64 | \$ 105,824.92      |                       |                           | 8096               | 6,350.00   | 7,795.00  | 4636         | \$ 132,701.92              |
| Snyder, Derek         | 1    | 51,738.18  | \$ 53,290.33       |                       |                           | 4077               | 3,198.00   |           | 2335         | \$ 62,900.33               |
| Tomlinson, Nancy(.50) | 0.5  | 21,511.62  | \$ 22,156.97       |                       |                           | 1696               | 1,330.00   | 3,897.50  | 971          | \$ 30,051.47               |
| Jackson, Mary         | 1    | 37,022.44  | \$ 38,133.11       |                       |                           | 2918               | 2,288.00   | 7,795.00  | 1671         | \$ 52,805.11               |
| Weston, Deanna(.19)   | 0.19 | 6,817.20   | \$ 7,021.72        |                       |                           | 538                | 422.00     | 1,481.00  | 308          | \$ 9,770.72                |
| Sims, David           | 1    | 26,994.24  | \$ 26,994.24       |                       |                           | 2066               | 1,620.00   | 7,990.36  | 1183         | \$ 39,853.60               |
| Johnson, Jessica      | 0.5  | 20,600.06  | \$ 21,218.06       |                       |                           | 1624               | 1,274.00   | 3,898.00  | 930          | \$ 28,944.06               |
|                       | 5.19 | 267,426.38 | 274,639.34         | -                     | -                         | 21,015.00          | 16,482.00  | 32,856.86 | 12,034.00    | \$ 357,027.20              |

|                         |            |            |
|-------------------------|------------|------------|
| Overtime                | 1,546.72   | 2,000.00   |
| ActingCity Mgr Per Diem | 400.00     | 4,500.00   |
| Part Time & Seasonal    |            |            |
| Total Salaries          | 269,373.10 | 281,139.34 |

| Department Request                              |              |                                                         |
|-------------------------------------------------|--------------|---------------------------------------------------------|
| General & Non-Departmental Revenues             | Amount       | Justification & Supporting Information                  |
| 100-110-4010-110 Property Tax                   | 479,750.00   | Historical 1% growth                                    |
| 100-110-4020-110 Financial Institution Tax      | 300.00       | no change - no growth                                   |
| 100-110-4030-110 1-Cent City Sales Tax          | 3,092,449.00 |                                                         |
| 100-110-4050-110 Cigarette Tax                  | 48,535.00    | No growth                                               |
| 100-110-4100-110 Occupation Licenses            | 40,342.00    | Projection with new structure - does not include liquor |
| 100-110-4130-110 Franchises                     | 798,250.00   | Historical 3% growth                                    |
| 100-110-4200-110 Grant Revenue                  | 132,000.00   | Assumes 20% match EECBG window replacement City Hall    |
| 100-110-4700-110 Interest Earned-General Fund   | 725,000.00   | updated interest rate                                   |
| 100-110-4760-110 Insurance Proceeds             |              |                                                         |
| 100-110-4800-110 General Admin Miscellaneous    |              |                                                         |
| 100-110-4820-110 General Admin Sale of Property |              |                                                         |
|                                                 | 5,316,626.00 |                                                         |

| General & Non-Departmental Expenditures         | Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-110-5010-110 General Admin Salaries         | 274,640.00 |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5020-110 General Admin Overtime         | 2,000.00   |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5040-110 Acting City Mgr Per Diem       | 4,500.00   |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5070-110 Availability Allowance         | -          |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5170-110 General Admin Social Security  | 21,508.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5180-110 General Admin Retirement       | 16,869.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5190-110 General Admin Health Insurance | 40,455.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5210-110 General Admin Workers Comp.    | 12,314.00  |                                                                                                                                                                                                                                                                                                                             |
| 100-110-5260-110 General Admin Prof. Service    | 117,154.00 | Legal \$70,000, Audit \$17,500, Postage Machine \$4640, HSTCC \$4000, Stronghold \$4000, Advertising \$2600, Lexis Nexis \$1200, Copier Mtce \$1000, Pest Control \$600, Chamber Activities \$500, Window Cleaning \$644, Security monitoring \$1000, Fire Inspection \$250, AED Mtce, \$100, LEI Mtce \$100, ACH Fees \$20 |
| 100-110-5271-110 Master Bank Acct Fees          | -          | updated per agreement                                                                                                                                                                                                                                                                                                       |
| 100-110-5272-110 Investment Acct. Bank Fees     | -          | updated per agreement                                                                                                                                                                                                                                                                                                       |
| 100-110-5290-110 County Collector Fees          | 19,190.00  | 4% of receipts                                                                                                                                                                                                                                                                                                              |
| 100-110-5300-110 General Admin Ins. & Bonds     | 16,748.00  | Blanket Bond \$580, Property & Liability                                                                                                                                                                                                                                                                                    |
| 100-110-5330-110 General Admin Equipment Maint  | 7,575.00   |                                                                                                                                                                                                                                                                                                                             |

| General & Non-Departmental Expenditures |                                | Amount     | Justification & Supporting Information                                                                                                                                                                            |
|-----------------------------------------|--------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-110-5360-110                        | General Admin Memb/Train/Trvl  | 7,405.00   | Sam's Club \$150, Chamber Events \$500, CPR Training \$200, MO Municipal's attorney membership \$55, Attorney Seminar \$1000, MCMA Membership MCMA Conference \$1000, MML conference \$1500, PIO Training \$3,000 |
| 100-110-5380-110                        | Uniforms                       | 235.00     | Polo shirts                                                                                                                                                                                                       |
| 100-110-5530-110                        | General Admin Fuels/Lubricants | 525.00     |                                                                                                                                                                                                                   |
| 100-110-5590-110                        | General Admin Gen. Supplies    | 15,600.00  | Copy Paper \$2000, Postage \$2400, Cleaning & Sanitizing Supplies \$1500, Office Supplies \$9700                                                                                                                  |
| 100-110-5700-110                        | General Admin Comp., Software  | 2,383.00   | Firewall \$210, Office 365 \$950.10, Cyber software \$533.31, server license upgrade \$689.15                                                                                                                     |
| 100-999-5200-112                        | Unemployment Compensation      | 8,000.00   |                                                                                                                                                                                                                   |
| 100-999-5320-112                        | City Hall Facility Maintenance | 20,000.00  | Carpet & Flooring Cleaning \$4,000, Seal parking lot and alley                                                                                                                                                    |
| 100-999-6300-112                        | City Hall Electricity          | 15,662.00  |                                                                                                                                                                                                                   |
| 100-999-6310-112                        | City Hall Heating Fuels        | 8,000.00   |                                                                                                                                                                                                                   |
| 100-999-6350-112                        | City Hall Phones               | 14,693.00  | Go to \$3,825, Liberty \$10,868                                                                                                                                                                                   |
|                                         |                                | 625,456.00 |                                                                                                                                                                                                                   |

| General & Non-Departmental Other Sources |                               | Amount    | Justification & Supporting Information |
|------------------------------------------|-------------------------------|-----------|----------------------------------------|
| 100-000-3310-000                         | Transfer fm Hotel/Motel Admin | 2,860.00  |                                        |
| 100-000-3306-000                         | Transfer fm ARPA Investment   |           |                                        |
| 100-000-3305-110                         | Transfer fm Public Safety     | 20,000.00 |                                        |

| General & Non-Departmental Other Uses |                              | Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------|------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-000-3202-000                      | Transfer to Other Funds      |            |                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-000-3203-000                      | Transfer to Senior Center    |            |                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-000-3206-000                      | Transfer to ARPA             | 222,635.00 | ARPA Grant Bufflao Creek Lift Station                                                                                                                                                                                                                                                                                                                                            |
| 100-000-3206-170                      | Transfer to Drainage         | -          |                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-000-3230-000                      | Transfer to Fire fm General  | 654,927.00 | Additional 100,000 included to keep Fire at 90 days                                                                                                                                                                                                                                                                                                                              |
| 100-000-3240-000                      | Transfer to GC fm General    | 100,000.00 | debt, irrigation system \$300,000                                                                                                                                                                                                                                                                                                                                                |
| 100-000-3243-000                      | Transfer to Parks Department | 676,850.00 | Recreation-Pool \$46,350, Helicopter Maintenance \$5,000, Morse Park Field Lighting \$30,000, Christmas Lighting \$10,000, Asphalt two areas \$10,000, New Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architect Design Aquatic Center \$500,000, New ADA Bathroom and pavilion Scenic Park with parking and sidewalk \$225,000 split with Parks |
| 100-000-3285-112                      | Trns to Capital Improvement  | 470,000.00 | City Hall Façade, City Hall HVAC, Van replacement vehicle                                                                                                                                                                                                                                                                                                                        |
| 100-000-3285-680                      | Transfer to CDBG             |            |                                                                                                                                                                                                                                                                                                                                                                                  |

## City Clerk

Cheyenne Wright

City Clerk

[Cwright@neoshomo.org](mailto:Cwright@neoshomo.org)

This office provides administrative support for legislative services, records and information management, public information, and regulatory election services. Duties include preparation of agendas, meeting notices and minutes; maintenance of the City Code; administration of the appointment process to boards and commissions; maintenance and preservation of accurate Council records; oversight of the Records and Information Management Program; dissemination of public information; and the administration of elections. The Clerk handles all City insurance including property, liability, vehicle & airport policies. This involves implementation, renewals, claims processing as well as training, required conferences and ensuring annual audit requirements.

| Revenue Category     | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------|-----------------------|----------------------------|------------------------|
| Taxes                | -             | -                     | -                          | -                      |
| Intergovernmental    | -             | -                     | -                          | -                      |
| Licenses & Permits   | -             | -                     | -                          | -                      |
| Charges for Services | 134.40        | -                     | -                          | -                      |
| Fines & Forfeitures  | -             | -                     | -                          | -                      |
| Miscellaneous        | -             | -                     | -                          | -                      |
| Other Sources        | -             | -                     | -                          | -                      |
| <b>Total</b>         | <b>134.40</b> | -                     | -                          | -                      |
|                      | \$ -          | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 73,573.05         | 82,582.00             | 62,046.27                  | 86,696.00              |
| Supplies & Materials          | 714.61            | 966.00                | 394.11                     | 1,020.00               |
| Maintenance & Repair          | -                 | -                     | -                          | -                      |
| Contractual Services          | 14,109.36         | 28,010.00             | 21,303.69                  | 34,701.00              |
| Utilities                     | -                 | -                     | -                          | -                      |
| Other Expenses                | 18,407.49         | 819.00                | 617.86                     | 1,128.00               |
| Capital                       | 4,051.96          | 52,233.00             | 52,331.42                  | 6,500.00               |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>110,856.47</b> | <b>164,610.00</b>     | <b>136,693.35</b>          | <b>130,045.00</b>      |
|                               | \$ 0.00           | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Computer Software**-Increase for license upgrades

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| City Clerk              |               | 0.8                   | 0.84                  | 0.84                   |
| <b>DEPARTMENT TOTAL</b> |               | <b>0.8</b>            | <b>0.84</b>           | <b>0.84</b>            |

|            |
|------------|
| City Clerk |
|------------|

| Account                                      | Account Name                | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-----------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| City Clerk Revenues                          |                             |                      |                      |                              |                               |                              |
| 100-111-4800-111                             | City Clerk Miscellaneous    | 134.40               | -                    | -                            | -                             | -                            |
| <b>Total City Clerk Revenues</b>             |                             | <b>\$ 134.40</b>     | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| City Clerk Expenditures                      |                             |                      |                      |                              |                               |                              |
| 100-111-5010-111                             | Clerk Salaries              | 50,609.69            | 54,387.00            | 41,455.57                    | 55,274.09                     | 56,318.00                    |
| 100-111-5030-111                             | Clerk Part Time             | 1,785.00             | 2,100.00             | 1,265.00                     | 1,686.67                      | 2,100.00                     |
| 100-111-5170-111                             | Clerk Social Security       | 3,710.60             | 4,322.00             | 2,984.85                     | 3,979.80                      | 4,469.00                     |
| 100-111-5180-111                             | Clerk Retirement            | 2,667.57             | 2,720.00             | 2,072.82                     | 2,763.76                      | 3,380.00                     |
| 100-111-5190-111                             | Clerk Health Insurance      | 6,492.27             | 6,043.00             | 5,196.60                     | 6,928.80                      | 6,585.00                     |
| 100-111-5210-111                             | Clerk Workers Compensation  | 1,970.02             | 2,475.00             | 2,743.69                     | 3,658.25                      | 2,559.00                     |
| 100-111-5260-111                             | Clerk Professional Services | 11,135.58            | 17,360.00            | 13,914.41                    | 18,552.55                     | 24,051.00                    |
| 100-111-5300-111                             | Clerk Insurance & Bonds     | 377.00               | 650.00               | 680.00                       | 906.67                        | 650.00                       |
| 100-111-5360-111                             | Clerk Member/Train/Trvl     | 6,337.90             | 10,535.00            | 6,327.74                     | 8,436.99                      | 11,285.00                    |
| 100-111-5430-111                             | Clerk Elections             | 2,596.78             | 10,000.00            | 6,709.28                     | 8,945.71                      | 10,000.00                    |
| 100-111-5590-111                             | Clerk General Supplies      | 714.61               | 966.00               | 394.11                       | 525.48                        | 1,020.00                     |
| 100-111-5700-111                             | Clerk Comp., Software       | 18,407.49            | 819.00               | 617.86                       | 823.81                        | 1,128.00                     |
| <b>Total City Clerk Expenditures</b>         |                             | <b>\$ 106,804.51</b> | <b>\$ 112,377.00</b> | <b>\$ 84,361.93</b>          | <b>\$ 112,482.57</b>          | <b>\$ 123,545.00</b>         |
| City Clerk Other Sources                     |                             |                      |                      |                              |                               | -                            |
| <b>Total City Clerk Other Sources</b>        |                             | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| City Clerk Other Uses                        |                             |                      |                      |                              |                               |                              |
| 100-000-3285-111                             | Transfer to Capital         | 4,051.96             | 52,233.00            | 52,331.42                    | 52,233.00                     | 6,500.00                     |
| <b>Total City Clerk Other Uses</b>           |                             | <b>\$ 4,051.96</b>   | <b>\$ 52,233.00</b>  | <b>\$ 52,331.42</b>          | <b>\$ 52,233.00</b>           | <b>\$ 6,500.00</b>           |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                             | (110,722.07)         | (164,610.00)         | (136,693.35)                 | (164,715.57)                  | (130,045.00)                 |

| City Clerk and Council |          |
|------------------------|----------|
| Health Insurance Rate  | 7,794.72 |
| Work Comp Rate         | 4.38%    |
| Retirement Rate        | 6.00%    |

Payroll Detail

| FTE              | #    | FY2024    | FY2025 Budgeted | Incentive/ License | Availability Allowance | Social Security | Retirement | Insurance | Work Comp | Total Salary & Benefits |
|------------------|------|-----------|-----------------|--------------------|------------------------|-----------------|------------|-----------|-----------|-------------------------|
| Wright, Cheyenne | 84%  | 54,386.14 | \$ 56,317.72    |                    |                        | 4,309.00        | 3,380.00   | 6,668.72  | 2,467.00  | \$ 73,142.45            |
|                  | 0.84 | 54,386.14 | 56,317.72       |                    | -                      | 4,309.00        | 3,380.00   | 6,668.72  | 2,467.00  | \$ 73,142.45            |

|             |  |          |
|-------------|--|----------|
| Council Pay |  | 2,100.00 |
|-------------|--|----------|

|                |           |           |
|----------------|-----------|-----------|
| Total Salaries | 54,386.14 | 58,417.72 |
|----------------|-----------|-----------|

| Department Request                        |        |                                        |
|-------------------------------------------|--------|----------------------------------------|
| City Clerk and Council Revenues           | Amount | Justification & Supporting Information |
| 100-111-4800-111 City Clerk Miscellaneous |        | -                                      |

| City Clerk and Council Expenditures          | Amount     | Justification & Supporting Information                                                                                                                                                                                                                                            |
|----------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-111-5010-111 Clerk Salaries              | 56,318.00  |                                                                                                                                                                                                                                                                                   |
| 100-111-5030-111 Clerk Part Time             | 2,100.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5170-111 Clerk Social Security       | 4,469.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5180-111 Clerk Retirement            | 3,380.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5190-111 Clerk Health Insurance      | 6,585.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5210-111 Clerk Workers Compensation  | 2,559.00   |                                                                                                                                                                                                                                                                                   |
| 100-111-5260-111 Clerk Professional Services | 24,051.00  | General Code \$3,500; Stronghold Microsoft Office Contract \$535; Laserfiche \$300; Council Pictures-Name Plates \$300, civic Clerk \$16346, DocuSign \$2800, Laserfiche \$270                                                                                                    |
| 100-111-5300-111 Clerk Insurance & Bonds     | 650.00     | bonds only (Includes City Blanket Bond)                                                                                                                                                                                                                                           |
| 100-111-5360-111 Clerk Member/Train/Trvl     | 11,285.00  | \$1600 MOCCFOA Spring Conference; \$1200 MIRMA Annual Conference; MML Elected Officials Conf. \$3000; MML September Conference \$1500; City MML Account \$1300; MOCCFOA Dues \$35; SWMOCCFOA Dues \$25; IIMC Membership \$175; City Clerk Trainings \$500; IIMC Conference \$1950 |
| 100-111-5430-111 Clerk Elections             | 10,000.00  |                                                                                                                                                                                                                                                                                   |
| 100-111-5590-111 Clerk General Supplies      | 1,020.00   | Toner \$646; Postage \$220; Council Frames \$200                                                                                                                                                                                                                                  |
| 100-111-5700-111 Clerk Comp., Software       | 1,128.00   | Adobe License Renewal \$204, Firewall \$210, Office 365 \$237.53, Cyber software \$133.33, server license upgrade \$295.35, Polo shirts \$47                                                                                                                                      |
|                                              | 123,545.00 |                                                                                                                                                                                                                                                                                   |

| City Clerk and Council Other Sources | Amount | Justification & Supporting Information |
|--------------------------------------|--------|----------------------------------------|
|                                      |        |                                        |

| City Clerk and Council Other Uses    | Amount   | Justification & Supporting Information |
|--------------------------------------|----------|----------------------------------------|
| 100-000-3285-111 Transfer to Capital | 6,500.00 | E-Code 360 hyperlink code updates      |

## Communications & Events

Richard Leavens  
Development Services Director  
[rlavens@neoshomo.org](mailto:rlavens@neoshomo.org)

This office serves to provide public awareness of all information and events within the City while keeping City Official's best intentions at the forefront of all marketing efforts. The marketing and information distributed is provided to further enhance the quality of life in Neosho. This office is also responsible for coordinating city-sponsored events; booking City facilities; and managing the website and social media.

| Revenue              | FY2023           | FY2024           | FY2024           | FY2025           |
|----------------------|------------------|------------------|------------------|------------------|
| Category             | Actual           | Adopted          | Current YTD      | Proposed         |
| Category             | Actual           | Budget           | Actuals          | Budget           |
| Taxes                | -                | -                | -                | -                |
| Intergovernmental    | -                | -                | -                | -                |
| Licenses & Permits   | -                | -                | -                | -                |
| Charges for Services | 29,032.75        | 24,000.00        | 23,857.00        | 24,000.00        |
| Fines & Forfeitures  | -                | -                | -                | -                |
| Miscellaneous        | -                | -                | -                | -                |
| Other Sources        | 30,000.00        | 32,500.00        | 32,500.00        | 22,500.00        |
| <b>Total</b>         | <b>59,032.75</b> | <b>56,500.00</b> | <b>56,357.00</b> | <b>46,500.00</b> |
|                      | \$ -             | \$ -             | \$ -             | \$ -             |

| Expense                       | FY2023           | FY2024           | FY2024           | FY2025           |
|-------------------------------|------------------|------------------|------------------|------------------|
| Category                      | Actual           | Adopted          | Current YTD      | Proposed         |
| Category                      | Actual           | Budget           | Actuals          | Budget           |
| Salaries, Benefits, & Support | -                | -                | -                | -                |
| Supplies & Materials          | -                | -                | -                | -                |
| Maintenance & Repair          | -                | -                | -                | -                |
| Contractual Services          | -                | -                | -                | -                |
| Utilities                     | -                | -                | -                | -                |
| Other Expenses                | 30,783.33        | 56,500.00        | 38,621.03        | 36,500.00        |
| Capital                       | -                | -                | -                | -                |
| Other Uses                    | -                | -                | -                | -                |
| Debt Service                  | -                | -                | -                | -                |
| <b>Total</b>                  | <b>30,783.33</b> | <b>56,500.00</b> | <b>38,621.03</b> | <b>36,500.00</b> |
|                               | \$ -             | \$ -             | \$ -             | \$ -             |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

**Celebrate Neosho Expense-** Fireworks recorded under Hotel Motel

|                         | FY2023 | FY2024   | FY2024   | FY2025   |
|-------------------------|--------|----------|----------|----------|
|                         | Actual | Adopted  | Current  | Proposed |
| Staffing Levels         | Actual | Budget   | Budget   | Budget   |
| No FTE                  |        |          |          |          |
| <b>DEPARTMENT TOTAL</b> |        | <b>0</b> | <b>0</b> | <b>0</b> |

|                         |
|-------------------------|
| Communications & Events |
|-------------------------|

| Account                                                | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|--------------------------------------------------------|-------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Communications & Events Revenues                       |                               |                     |                     |                              |                               |                              |
| 100-113-4470-755                                       | Celebrate Booth Fees          | 1,000.00            | -                   | -                            | -                             | -                            |
| 100-113-4470-756                                       | Fall Festival Booth Fees      | 11,410.00           | 8,000.00            | 5,660.00                     | 5,660.00                      | 8,000.00                     |
| 100-113-4471-755                                       | Celebrate Race Fees           | -                   | -                   | -                            | -                             | -                            |
| 100-113-4480-755                                       | Celebrate Neosho Shirt Sales  | 472.75              | -                   | 75.00                        | 75.00                         | -                            |
| 100-113-4990-755                                       | Celebrate Neosho Sponsors     | 8,550.00            | 8,000.00            | 9,322.00                     | 9,322.00                      | 8,000.00                     |
| 100-113-4990-756                                       | Fall Festival Sponsorships    | 7,600.00            | 8,000.00            | 8,800.00                     | 8,800.00                      | 8,000.00                     |
| <b>Total Communications &amp; Events Revenues</b>      |                               | <b>\$ 29,032.75</b> | <b>\$ 24,000.00</b> | <b>\$ 23,857.00</b>          | <b>\$ 23,857.00</b>           | <b>\$ 24,000.00</b>          |
| Communications & Events Expenditures                   |                               |                     |                     |                              |                               |                              |
| 100-113-6520-755                                       | Celebrate Neosho Expenses     | 25,862.79           | 27,500.00           | 26,495.63                    | 27,500.00                     | 7,500.00                     |
| 100-113-6530-756                                       | Fall Festival Expenses        | 4,920.54            | 29,000.00           | 12,125.40                    | 29,000.00                     | 29,000.00                    |
| <b>Total Communications &amp; Events Expenditures</b>  |                               | <b>\$ 30,783.33</b> | <b>\$ 56,500.00</b> | <b>\$ 38,621.03</b>          | <b>\$ 56,500.00</b>           | <b>\$ 36,500.00</b>          |
| Communications & Events Other Sources                  |                               |                     |                     |                              |                               |                              |
| 100-000-3355-000                                       | Transfer to Gen Celebrate     | 15,000.00           | 19,500.00           | 19,500.00                    | 19,500.00                     | 7,500.00                     |
| 100-000-3356-000                                       | Transfer to Gen Fall Festival | 15,000.00           | 13,000.00           | 13,000.00                    | 13,000.00                     | 15,000.00                    |
| <b>Total Communications &amp; Events Other Sources</b> |                               | <b>\$ 30,000.00</b> | <b>\$ 32,500.00</b> | <b>\$ 32,500.00</b>          | <b>\$ 32,500.00</b>           | <b>\$ 22,500.00</b>          |
| Communications & Events Other Uses                     |                               |                     |                     |                              |                               |                              |
|                                                        |                               | -                   | -                   | -                            | -                             | -                            |
| <b>Total Communications &amp; Events Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES           |                               | 28,249.42           | -                   | 17,735.97                    | (143.00)                      | 10,000.00                    |



| Communication & Events |          |
|------------------------|----------|
| Health Insurance Rate  | 7,794.72 |
| Work Comp Rate         | -        |
| Retirement Rate        | -        |

|                      |   |   |
|----------------------|---|---|
| Part Time & Seasonal |   |   |
| Total Salaries       | - | - |

|                                      |                               | Department Request |                                                              |
|--------------------------------------|-------------------------------|--------------------|--------------------------------------------------------------|
| Communication & Events Revenues      |                               | Amount             | Justification & Supporting Information                       |
| 100-113-4470-755                     | Celebrate Booth Fees          | -                  | No booth fees                                                |
| 100-113-4470-756                     | Fall Festival Booth Fees      | 8,000.00           |                                                              |
| 100-113-4471-755                     | Celebrate Race Fees           | -                  |                                                              |
| 100-113-4480-755                     | Celebrate Neosho Shirt Sales  |                    |                                                              |
| 100-113-4990-755                     | Celebrate Neosho Sponsors     | 8,000.00           | Historical                                                   |
| 100-113-4990-756                     | Fall Festival Sponsorships    | 8,000.00           | Historical                                                   |
|                                      |                               | 24,000.00          |                                                              |
| Communication & Events Expenditures  |                               | Amount             | Justification & Supporting Information                       |
| 100-113-6520-755                     | Celebrate Neosho Expenses     | 7,500.00           | Vendors, Port-a-Potties                                      |
| 100-113-6530-756                     | Fall Festival Expenses        | 29,000.00          | Entertainment, Dumpsters, Music, Port-a-Potties, Advertising |
|                                      |                               | 36,500.00          |                                                              |
| Communication & Events Other Sources |                               | Amount             | Justification & Supporting Information                       |
| 100-000-3355-000                     | Transfer to Gen Celebrate     | 7,500.00           |                                                              |
| 100-000-3356-000                     | Transfer to Gen Fall Festival | 15,000.00          |                                                              |
| Communication & Events Other Uses    |                               | Amount             | Justification & Supporting Information                       |
|                                      |                               |                    |                                                              |

## Development Services

Richard Leavens  
Development Services Director  
[rleavens@neoshomo.org](mailto:rleavens@neoshomo.org)

The Development Office ensures all new development meets the needs of the present, without compromising the ability of future generations to meet their own needs. Building Inspection Department is also responsible for enforcing building and public safety codes to protect the best interest of the public. This department issues building permits and reviews all commercial plans prior to building permit approval.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | 168,386.97        | 154,019.00            | 129,596.99                 | 116,932.00             |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forefeitures | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | -                 | 50,000.00             | 37,500.00                  | 50,000.00              |
| <b>Total</b>         | <b>168,386.97</b> | <b>204,019.00</b>     | <b>167,096.99</b>          | <b>166,932.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 178,487.20        | 254,918.00            | 153,330.80                 | 273,101.00             |
| Supplies & Materials          | 8,072.26          | 9,404.00              | 6,037.34                   | 17,217.00              |
| Maintenance & Repair          | 229.68            | 1,575.00              | 1,108.05                   | 1,575.00               |
| Contractual Services          | 62,765.36         | 134,179.00            | 44,213.17                  | 67,789.00              |
| Utilities                     | -                 | -                     | 301.31                     | 3,221.00               |
| Other Expenses                | 1,636.45          | 3,675.00              | 973.46                     | 3,675.00               |
| Capital                       | -                 | 12,434.00             | 11,177.51                  | -                      |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>251,190.95</b> | <b>416,185.00</b>     | <b>217,141.64</b>          | <b>366,578.00</b>      |
|                               | \$ -              | \$ -                  | \$ 0.00                    | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Building permits/Inspections-** Increase for historical growth

**Planning and Zoning-** Increase for historical growth

**Memberships/Training/Travel-** Increase \$1,800 based on current need

**Uniforms -**Increased based on current need for additional personnel

#### Decreases:

**Professional Service-** decrease based on grant closeout

|                               | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels               |               |                       |                       |                        |
| Development Services Director | 1             | 1                     | 1                     | 1                      |
| Facility Maintenance          | 1             | 1                     | 1                     | 1                      |
| Building Inspector            | 1             | 1                     | 1                     | 1                      |
| Code Assistance               |               |                       |                       | 1                      |
| <b>DEPARTMENT TOTAL</b>       | <b>3</b>      | <b>3</b>              | <b>3</b>              | <b>4</b>               |

Development Services

| Account                                         | Account Name                    | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------|---------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Development Services Revenues                   |                                 |                      |                      |                              |                               |                              |
| 100-115-4120-115                                | Building Permits/Inspec.        | 135,734.40           | 102,152.00           | 99,980.55                    | 102,152.00                    | 115,432.00                   |
| 100-115-4200-708                                | CDBG Grant Revenue              | 29,105.88            | 50,132.00            | 22,673.04                    | 30,230.72                     | -                            |
| 100-115-4770-115                                | Planning & Zoning Fees          | 577.00               | 1,735.00             | 2,443.40                     | 3,257.87                      | 1,500.00                     |
| 100-115-4800-115                                | Code Enforcement Miscellaneous  | 1,700.00             | -                    | 4,500.00                     | 6,000.00                      | -                            |
| 100-115-4820-115                                | Sale of Dev. Service Property   | -                    | -                    | -                            | -                             | -                            |
| 100-115-4791-115                                | Code Enforcement Fees           | 1,269.69             | -                    | -                            | -                             | -                            |
| <b>Total Development Services Revenues</b>      |                                 | <b>\$ 168,386.97</b> | <b>\$ 154,019.00</b> | <b>\$ 129,596.99</b>         | <b>\$ 141,640.59</b>          | <b>\$ 116,932.00</b>         |
| Development Services Expenditures               |                                 |                      |                      |                              |                               |                              |
| 100-115-5010-115                                | Bldg/Inspection Salaries        | 131,095.62           | 184,126.00           | 111,796.76                   | 149,062.35                    | 194,794.00                   |
| 100-115-5020-115                                | Bldg/Inspection Overtime        | 2,228.75             | 1,750.00             | 1,657.87                     | 2,210.49                      | 1,750.00                     |
| 100-115-5070-115                                | Availability Allowance          | 1,080.00             | 1,440.00             | 540.00                       | 720.00                        | 1,440.00                     |
| 100-115-5170-115                                | Bldg/Inspection Social Sec.     | 10,174.40            | 14,220.00            | 8,636.93                     | 11,515.91                     | 15,036.00                    |
| 100-115-5180-115                                | Bldg/Inspection Retirement      | 7,077.57             | 9,294.00             | 5,858.65                     | 7,811.53                      | 11,793.00                    |
| 100-115-5190-115                                | Bldg/Inspection Health Ins.     | 21,302.02            | 30,211.00            | 17,275.88                    | 23,034.51                     | 31,179.00                    |
| 100-115-5210-115                                | Bldg/Inspection Workers Comp.   | 3,945.88             | 8,142.00             | 6,510.08                     | 8,680.11                      | 8,609.00                     |
| 100-115-5260-115                                | Bldg/Inspection Prof. Services  | 62,333.01            | 132,980.00           | 43,744.05                    | 58,325.40                     | 66,580.00                    |
| 100-115-5270-115                                | Credit Card Fees                | 219.12               | 1,000.00             | 270.12                       | 360.16                        | 1,000.00                     |
| 100-115-5300-115                                | Bldg/Inspection Ins. & Bonds    | 213.23               | 199.00               | 199.00                       | 265.33                        | 209.00                       |
| 100-115-5330-115                                | Bldg/Inspection Equip Maint.    | 229.68               | 1,575.00             | 1,108.05                     | 1,477.40                      | 1,575.00                     |
| 100-115-5360-115                                | Bldg/Inspection Mem/Train/Trvl  | 1,077.75             | 5,000.00             | 108.00                       | 144.00                        | 6,500.00                     |
| 100-115-5380-115                                | Bldg/Inspection Uniforms        | 505.21               | 735.00               | 946.63                       | 1,262.17                      | 2,000.00                     |
| 100-115-5530-115                                | Bldg/Inspection Fuels           | 1,636.45             | 3,675.00             | 973.46                       | 1,297.95                      | 3,675.00                     |
| 100-115-5590-115                                | Bldg/Inspection Gen. Supplies   | 6,657.89             | 7,350.00             | 4,780.16                     | 6,373.55                      | 15,500.00                    |
| 100-115-5700-115                                | Development Computer/Software   | 1,414.37             | 2,054.00             | 1,257.18                     | 1,676.24                      | 1,717.00                     |
| 100-115-6350-115                                | Bldg/Inspection Phones          | -                    | -                    | 301.31                       | 401.75                        | 3,221.00                     |
| <b>Total Development Services Expenditures</b>  |                                 | <b>\$ 251,190.95</b> | <b>\$ 403,751.00</b> | <b>\$ 205,964.13</b>         | <b>\$ 274,618.84</b>          | <b>\$ 366,578.00</b>         |
| Development Services Other Sources              |                                 |                      |                      |                              |                               |                              |
| 100-000-3325-115                                | Transfer from Police Dept       | -                    | 50,000.00            | 37,500.00                    | 50,000.00                     | 50,000.00                    |
| <b>Total Development Services Other Sources</b> |                                 | <b>\$ -</b>          | <b>\$ 50,000.00</b>  | <b>\$ 37,500.00</b>          | <b>\$ 50,000.00</b>           | <b>\$ 50,000.00</b>          |
| Development Services Other Uses                 |                                 |                      |                      |                              |                               |                              |
| 100-000-3285-115                                | Transfer to Capital Improvement | -                    | 12,434.00            | 11,177.51                    | 11,177.51                     | -                            |
| <b>Total Development Services Other Uses</b>    |                                 | <b>\$ -</b>          | <b>\$ 12,434.00</b>  | <b>\$ 11,177.51</b>          | <b>\$ 11,177.51</b>           | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES    |                                 | (82,803.98)          | (212,166.00)         | (50,044.65)                  | (94,155.76)                   | (199,646.00)                 |

| Development           |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE              | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Leavens, Richard | 1    | 57,942.56  | \$ 64,830.84       |                       | 360                       | 4,960.00           | 3,890.00   | 7,795.00  | 2,840.00     | \$ 84,675.84               |
| Wright, Dustin   | 1    | 33,737.60  | \$ 34,749.73       |                       | 360                       | 2,659.00           | 2,085.00   | 7,795.00  | 1,523.00     | \$ 49,171.73               |
| Brown, Matthew   | 1    | 45,440.20  | \$ 46,803.41       |                       | 360                       | 3,581.00           | 2,809.00   | 7,795.00  | 2,050.00     | \$ 63,398.41               |
| Worster, Adam    | 1    | 46,999.94  | \$ 48,409.94       |                       | 360                       | 3,704.00           | 2,905.00   | 7,795.00  | 2,121.00     | \$ 65,294.94               |
|                  | 4.00 | 184,120.30 | 194,793.91         | -                     | 1,440.00                  | 14,904.00          | 11,689.00  | 31,180.00 | 8,534.00     | \$ 262,540.91              |

|                      |            |            |
|----------------------|------------|------------|
| Overtime             | 2,210.49   | 1,750.00   |
| Part Time & Seasonal |            |            |
| Total Salaries       | 186,330.79 | 196,543.91 |

|                      |                                | Department Request |                                                                           |  |  |  |
|----------------------|--------------------------------|--------------------|---------------------------------------------------------------------------|--|--|--|
|                      |                                | Amount             | Justification & Supporting Information                                    |  |  |  |
| Development Revenues |                                |                    |                                                                           |  |  |  |
| 100-115-4120-115     | Building Permits/Inspec.       | 115,432.00         | Historical                                                                |  |  |  |
| 100-115-4200-708     | CDBG Grant Revenue             | -                  |                                                                           |  |  |  |
| 100-115-4770-115     | Planning & Zoning Fees         | 1,500.00           | Based on 1 P&Z app/month and raising fees to \$50 app fee + \$200 deposit |  |  |  |
| 100-115-4800-115     | Code Enforcement Miscellaneous |                    |                                                                           |  |  |  |
| 100-115-4820-115     | Sale of Dev. Service Property  |                    |                                                                           |  |  |  |
| 100-115-4791-115     | Code Enforcement Fees          |                    |                                                                           |  |  |  |
|                      |                                | 116,932.00         |                                                                           |  |  |  |

|                          |                                | Amount     | Justification & Supporting Information                                                                                                                                            |
|--------------------------|--------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Development Expenditures |                                |            |                                                                                                                                                                                   |
| 100-115-5010-115         | Bldg/Inspection Salaries       | 194,794.00 |                                                                                                                                                                                   |
| 100-115-5020-115         | Bldg/Inspection Overtime       | 1,750.00   |                                                                                                                                                                                   |
| 100-115-5070-115         | Availability Allowance         | 1,440.00   |                                                                                                                                                                                   |
| 100-115-5170-115         | Bldg/Inspection Social Sec.    | 15,036.00  |                                                                                                                                                                                   |
| 100-115-5180-115         | Bldg/Inspection Retirement     | 11,793.00  |                                                                                                                                                                                   |
| 100-115-5190-115         | Bldg/Inspection Health Ins.    | 31,179.00  |                                                                                                                                                                                   |
| 100-115-5210-115         | Bldg/Inspection Workers Comp.  | 8,609.00   |                                                                                                                                                                                   |
| 100-115-5260-115         | Bldg/Inspection Prof. Services | 66,580.00  | Dangerous Buildings \$50,000, GIS renewal & maintenance - \$4,000, Public Hearing notices - \$2,500, Stronghold \$2280, CivicPlus annual fee \$6,300, CivicPay Annual Fee \$1,500 |
| 100-115-5270-115         | Credit Card Fees               | 1,000.00   | Credit Card Fees for Building Permits                                                                                                                                             |
| 100-115-5300-115         | Bldg/Inspection Ins. & Bonds   | 209.00     | Property Ins                                                                                                                                                                      |
| 100-115-5330-115         | Bldg/Inspection Equip Maint.   | 1,575.00   |                                                                                                                                                                                   |
| 100-115-5360-115         | Bldg/Inspection Mem/Train/Trvl | 6,500.00   | MML - \$1,000, floodplain training \$1,000, Codes training for Matt, Adam, and Richard - \$3,000, Code Enforcement \$1,500                                                        |
| 100-115-5380-115         | Bldg/Inspection Uniforms       | 2,000.00   |                                                                                                                                                                                   |
| 100-115-5530-115         | Bldg/Inspection Fuels          | 3,675.00   |                                                                                                                                                                                   |
| 100-115-5590-115         | Bldg/Inspection Gen. Supplies  | 15,500.00  | Mapping printer/scanner 36" \$8,150                                                                                                                                               |
| 100-115-5700-115         | Development Computer/Software  | 1,717.00   | Firewall \$210, Office 365 \$712.58, Cyber software \$399.98, Server license upgrade \$393.80                                                                                     |
| 100-115-6350-115         | Bldg/Inspection Phones         | 3,221.00   | Tablet mifi connection \$504 fiber \$2,717.04                                                                                                                                     |
|                          |                                | 366,578.00 |                                                                                                                                                                                   |

|                           |                           | Amount    | Justification & Supporting Information |
|---------------------------|---------------------------|-----------|----------------------------------------|
| Development Other Sources |                           |           |                                        |
| 100-000-3325-115          | Transfer from Police Dept | 50,000.00 | Code Enforcement Officer               |

|                        |                                 | Amount | Justification & Supporting Information |
|------------------------|---------------------------------|--------|----------------------------------------|
| Development Other Uses |                                 |        |                                        |
| 100-000-3285-115       | Transfer to Capital Improvement |        |                                        |



## Recycle Center

Nate Siler  
Public Works Director  
[nsiler@neoshomo.org](mailto:nsiler@neoshomo.org)

The Neosho Recycle Center is a regional drop-off recycling center. The facility serves over 7,000 individual rec as well as six other communities or organizations each year.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | 100,374.98        | 97,145.00             | 132,305.77                 | 142,261.00             |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | -                 | -                     | -                          | -                      |
| <b>Total</b>         | <b>100,374.98</b> | <b>97,145.00</b>      | <b>132,305.77</b>          | <b>142,261.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 121,033.00        | 139,868.00            | 103,306.88                 | 146,185.00             |
| Supplies & Materials          | 633.50            | 1,575.00              | 548.00                     | 1,944.00               |
| Maintenance & Repair          | 4,502.75          | 4,650.00              | 2,105.68                   | 5,500.00               |
| Contractual Services          | 6,454.62          | 8,710.00              | 9,785.81                   | 10,536.00              |
| Utilities                     | 9,297.14          | 9,105.00              | 6,114.09                   | 7,045.00               |
| Other Expenses                | 1,337.40          | 1,890.00              | 1,399.73                   | 3,500.00               |
| Capital                       | 115,447.20        | 68,000.00             | 42,166.78                  | 65,261.00              |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>258,705.61</b> | <b>233,798.00</b>     | <b>165,426.97</b>          | <b>239,971.00</b>      |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Grant Revenue-** Received additional grant for capital

**Shipping and Disposal** - Increase for need

**Fuels-** Additional fork truck

#### Decreases:

**Capital** - Decrease based on current need

**Facility Maintenance-** Decrease based on current need

|                          | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|--------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels          |               |                       |                       |                        |
| Lead Recycling Attendant | 1             | 1                     | 1                     | 1                      |
| Recycling Attendant      | 2             | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b>  | <b>3</b>      | <b>3</b>              | <b>3</b>              | <b>3</b>               |

|                |
|----------------|
| Recycle Center |
|----------------|

| Account                                      | Account Name                     | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|----------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Recycle Center Revenues                      |                                  |                      |                      |                              |                               |                              |
| 100-118-4200-118                             | Region M Grant                   | 68,832.95            | 71,491.00            | 60,949.51                    | 71,491.00                     | 97,261.00                    |
| 100-118-4420-118                             | Recycle Center Sales             | 31,542.03            | 25,654.00            | 71,356.26                    | 95,141.68                     | 45,000.00                    |
| 100-118-4760-118                             | Insurance Proceeds               | -                    | -                    | -                            | -                             | -                            |
| <b>Total Recycle Center Revenues</b>         |                                  | <b>\$ 100,374.98</b> | <b>\$ 97,145.00</b>  | <b>\$ 132,305.77</b>         | <b>\$ 166,632.68</b>          | <b>\$ 142,261.00</b>         |
| Recycle Center Expenditures                  |                                  |                      |                      |                              |                               |                              |
| 100-118-5010-118                             | Recycle Center Salaries          | 86,714.06            | 97,114.00            | 72,675.74                    | 96,900.99                     | 100,710.00                   |
| 100-118-5020-118                             | Recycle Center Overtime          | 56.40                | 1,500.00             | 66.99                        | 89.32                         | 1,500.00                     |
| 100-118-5030-118                             | Recycle Center Part Time         | 602.10               | -                    | -                            | -                             | 360.00                       |
| 100-118-5170-118                             | Recycle Center Social Sec.       | 6,678.74             | 7,544.00             | 5,547.98                     | 7,397.31                      | 7,820.00                     |
| 100-118-5180-118                             | Recycle Center Retirement        | 3,944.97             | 4,931.00             | 3,637.08                     | 4,849.44                      | 6,133.00                     |
| 100-118-5190-118                             | Recycle Center Health Ins.       | 19,797.92            | 22,659.00            | 16,382.30                    | 21,843.07                     | 23,385.00                    |
| 100-118-5210-118                             | Recycle Center Workers Comp      | 1,748.06             | 4,320.00             | 4,067.42                     | 5,423.23                      | 4,477.00                     |
| 100-118-5260-118                             | Recycle Center Professional Serv | 801.38               | 1,284.00             | 1,956.70                     | 2,608.93                      | 1,284.00                     |
| 100-118-5265-118                             | Shipping/Disposal                | 4,128.76             | 5,250.00             | 5,779.07                     | 7,705.43                      | 7,000.00                     |
| 100-118-5300-118                             | Recycle Center Ins. & Bonds      | 1,524.48             | 2,176.00             | 2,050.04                     | 2,733.39                      | 2,252.00                     |
| 100-118-5320-118                             | Recycle Center Facility Maint.   | 1,474.68             | 2,550.00             | 202.08                       | 269.44                        | 2,000.00                     |
| 100-118-5330-118                             | Recycle Center Equipment Maint   | 3,028.07             | 2,100.00             | 1,903.60                     | 2,538.13                      | 3,500.00                     |
| 100-118-5360-118                             | Recycle Center Memb/Train/Trvl   | 18.00                | -                    | -                            | -                             | -                            |
| 100-118-5380-118                             | Recycle Center Uniforms          | 1,472.75             | 1,800.00             | 929.37                       | 1,239.16                      | 1,800.00                     |
| 100-118-5530-118                             | Recycle Center Fuels             | 1,337.40             | 1,890.00             | 1,399.73                     | 1,866.31                      | 3,500.00                     |
| 100-118-5590-118                             | Recycle Center Gen. Supplies     | 476.00               | 1,575.00             | 548.00                       | 730.67                        | 1,575.00                     |
| 100-118-5700-118                             | Recycle Comp., Software          | 157.50               | -                    | -                            | -                             | 369.00                       |
| 100-118-6300-118                             | Recycle Center Electricity       | 2,309.57             | 1,874.00             | 1,570.64                     | 2,094.19                      | 1,874.00                     |
| 100-118-6310-118                             | Recycle Center Heating Fuels     | 2,067.28             | 2,077.00             | 1,325.53                     | 1,767.37                      | 2,100.00                     |
| 100-118-6350-118                             | Recycle Center Phones            | 4,920.29             | 5,154.00             | 3,217.92                     | 4,290.56                      | 3,071.00                     |
| <b>Total Recycle Center Expenditures</b>     |                                  | <b>\$ 143,258.41</b> | <b>\$ 165,798.00</b> | <b>\$ 123,260.19</b>         | <b>\$ 164,346.92</b>          | <b>\$ 174,710.00</b>         |
| Recycle Center Other Sources                 |                                  |                      |                      |                              |                               |                              |
| <b>Total Recycle Center Other Sources</b>    |                                  | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Recycle Center Other Uses                    |                                  |                      |                      |                              |                               |                              |
| 100-000-3285-118                             | Transfer to Capital              | 115,447.20           | 68,000.00            | 42,166.78                    | 56,222.37                     | 65,261.00                    |
| <b>Total Recycle Center Other Uses</b>       |                                  | <b>\$ 115,447.20</b> | <b>\$ 68,000.00</b>  | <b>\$ 42,166.78</b>          | <b>\$ 56,222.37</b>           | <b>\$ 65,261.00</b>          |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                  | (158,330.63)         | (136,653.00)         | (33,121.20)                  | (53,936.61)                   | (97,710.00)                  |

| Recycle Center        |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Howell Diana L.      | 1    | 35,913.54  | \$ 37,673.84       |                       | 360                       | 2,883.00           | 2,261.00   | 7,795.00  | 1,651.00     | \$ 52,623.84               |
| Wright Todd A.       | 1    | 31,200.00  | \$ 32,136.00       |                       |                           | 2,459.00           | 1,929.00   | 7,795.00  | 1,408.00     | \$ 45,727.00               |
| Kenny, Michael       | 1    | 30,000.10  | \$ 30,900.10       |                       |                           | 2,364.00           | 1,855.00   | 7,795.00  | 1,354.00     | \$ 44,268.10               |
|                      | 3.00 | 97,113.64  | 100,709.94         | -                     | 360.00                    | 7,706.00           | 6,045.00   | 62,360.00 | 4,413.00     | \$ 181,593.94              |
| Overtime             |      | 89.32      | 1,500.00           |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      | 13,000.00  |                    |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 110,202.96 | 102,209.94         |                       |                           |                    |            |           |              |                            |

|                         |                      | Department Request |                                                                       |
|-------------------------|----------------------|--------------------|-----------------------------------------------------------------------|
|                         |                      | Amount             | Justification & Supporting Information                                |
| Recycle Center Revenues |                      |                    |                                                                       |
| 100-118-4200-118        | Region M Grant       | 97,261.00          | Region M Grant 2024 award, DNR Grant skid steer and food waste hopper |
| 100-118-4420-118        | Recycle Center Sales | 45,000.00          | 5 Year historical                                                     |
|                         |                      | 142,261.00         |                                                                       |

|                             |                                 | Amount     | Justification & Supporting Information                          |
|-----------------------------|---------------------------------|------------|-----------------------------------------------------------------|
| Recycle Center Expenditures |                                 |            |                                                                 |
| 100-118-5010-118            | Recycle Center Salaries         | 100,710.00 |                                                                 |
| 100-118-5020-118            | Recycle Center Overtime         | 1,500.00   | Increase for city wide clean up.                                |
| 100-118-5170-118            | Recycle Center Social Sec.      | 7,820.00   |                                                                 |
| 100-118-5180-118            | Recycle Center Retirement       | 6,133.00   |                                                                 |
| 100-118-5190-118            | Recycle Center Health Ins.      | 23,385.00  |                                                                 |
| 100-118-5210-118            | Recycle Center Workers Comp     | 4,477.00   |                                                                 |
| 100-118-5260-118            | Recycle Center Professional Ser | 1,284.00   | Stronghold                                                      |
| 100-118-5265-118            | Shipping/Disposal               | 7,000.00   |                                                                 |
| 100-118-5300-118            | Recycle Center Ins. & Bonds     | 2,252.00   | Property Ins                                                    |
| 100-118-5320-118            | Recycle Center Facility Maint.  | 2,000.00   | Repairs as needed, such as heat and air or damages to           |
| 100-118-5330-118            | Recycle Center Equipment Main   | 3,500.00   | Repairs to equipment as needed                                  |
| 100-118-5380-118            | Recycle Center Uniforms         | 1,800.00   | \$1,800 for jeans, boots, coat, shirts and hat allowance (for 3 |
| 100-118-5530-118            | Recycle Center Fuels            | 3,500.00   | incl propane for forklift                                       |
| 100-118-5590-118            | Recycle Center Gen. Supplies    | 1,575.00   |                                                                 |
| 100-118-5700-118            | Recycle Comp., Software         | 369.00     | wifi booster \$270,server license upgrade \$98.45               |
| 100-118-6300-118            | Recycle Center Electricity      | 1,874.00   |                                                                 |
| 100-118-6310-118            | Recycle Center Heating Fuels    | 2,100.00   |                                                                 |
| 100-118-6350-118            | Recycle Center Phones           | 3,071.00   |                                                                 |
|                             |                                 | 174,710.00 |                                                                 |

|                              |  | Amount | Justification & Supporting Information |
|------------------------------|--|--------|----------------------------------------|
| Recycle Center Other Sources |  |        |                                        |
|                              |  |        |                                        |

|                           |                     | Amount    | Justification & Supporting Information         |
|---------------------------|---------------------|-----------|------------------------------------------------|
| Recycle Center Other Uses |                     |           |                                                |
| 100-000-3285-118          | Transfer to Capital | 65,261.00 | Skid Steer \$63,238. Food Waste Hopper \$2,023 |
|                           |                     |           |                                                |



## Police Department

Jason Baird  
Chief of Police  
[j.baird@neoshomo.org](mailto:j.baird@neoshomo.org)

The Police Department is proactive in reducing crime and protecting lives and property and provides quality law enforcement to everyone living, working, and traveling through the community. The Police Department is also responsible for investigating reports of violations of the City's Code of Ordinances covering community standards, public nuisances, and conditions affecting public health, safety, and welfare in the City. The Police Department also facilitates the Neosho High School and Crowder College with Police Officers to enforce violations for on campus crimes. The Police Department is funded by Fines, a 1/2 of 1% Public Safety Tax, and the City's General Fund

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 118,041.71        | 100,000.00            | 89,089.60                  | 100,000.00             |
| Intergovernmental    | 26,467.93         | 2,160.00              | 3,651.02                   | 2,160.00               |
| Licenses & Permits   | 183.00            | 500.00                | 438.00                     | 500.00                 |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | 330,873.52        | 256,710.00            | 184,359.83                 | 268,442.00             |
| Miscellaneous        | 106,923.73        | 7,500.00              | 3,951.50                   | 7,500.00               |
| Other Sources        | 317,688.00        | 522,441.00            | 766,809.00                 | 1,237,547.00           |
| <b>Total</b>         | <b>900,177.89</b> | <b>889,311.00</b>     | <b>1,048,298.95</b>        | <b>1,616,149.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 1,796,579.38        | 1,916,172.00          | 1,378,433.31               | 1,943,652.00           |
| Supplies & Materials          | 13,353.18           | 27,563.00             | 11,642.01                  | 26,013.00              |
| Maintenance & Repair          | 48,709.08           | 95,948.00             | 71,479.16                  | 40,749.00              |
| Contractual Services          | 56,453.30           | 76,423.00             | 58,796.99                  | 1,078,110.00           |
| Utilities                     | 27,183.69           | 30,133.00             | 17,958.86                  | 22,566.00              |
| Other Expenses                | 151,554.37          | 127,766.00            | 65,161.94                  | 122,407.00             |
| Capital                       | 362,232.62          | 151,000.00            | 259,719.57                 | 80,000.00              |
| Other Uses                    | 4,200.00            | 52,310.00             | 37,500.00                  | 52,310.00              |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>2,460,265.62</b> | <b>2,477,315.00</b>   | <b>1,900,691.84</b>        | <b>3,365,807.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Grant Revenue** -Additional grant received

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

**Comp./Software**- Increase Server License upgrade

**Professional Services**- Increase for Architect

#### Decreases:

**Equipment Maintenance** - Decrease due to current needs

**Minor Equipment** - Decrease based on need

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Chief of Police         | 1             | 1                     | 1                     | 1                      |
| Lieutenant              | 2             | 2                     | 2                     | 2                      |
| Crowder SSO             | 2             | 0                     | 0                     | 0                      |
| Detective               | 2             | 2                     | 2                     | 2                      |
| SRO/Patrol              | 2             | 0                     | 0                     | 0                      |
| ACO/Patrol              | 1             | 1                     | 1                     | 1                      |
| Codes                   | 1             | 1                     | 1                     | 1                      |
| Patrol                  | 12            | 12                    | 12                    | 12                     |
| Sergeant                | 4             | 4                     | 4                     | 4                      |
| Records Clerk           | 2             | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b> | <b>29</b>     | <b>25</b>             | <b>25</b>             | <b>25</b>              |

|                   |
|-------------------|
| Police Department |
|-------------------|

| Account                                      | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Police Department Revenues                   |                               |                        |                        |                              |                               |                              |
| 100-120-4080-122                             | Animal Licenses               | 183.00                 | 500.00                 | 438.00                       | 584.00                        | 500.00                       |
| 100-120-4130-120                             | Sanitation Enforcement        | 118,041.71             | 100,000.00             | 89,089.60                    | 118,786.13                    | 100,000.00                   |
| 100-120-4200-120                             | Grant Revenue                 | 2,278.71               | 4,310.00               | -                            | -                             | 16,042.00                    |
| 100-120-4205-120                             | MIRMA Grant                   | -                      | -                      | -                            | -                             | -                            |
| 100-120-4600-120                             | Court Fines                   | 324,173.71             | 250,000.00             | 180,963.96                   | 241,285.28                    | 250,000.00                   |
| 100-120-4610-120                             | Police Training Fees          | 3,729.00               | 2,000.00               | 2,866.00                     | 3,821.33                      | 2,000.00                     |
| 100-120-4620-120                             | C. Victim's Compensation      | 692.10                 | 400.00                 | 529.87                       | 706.49                        | 400.00                       |
| 100-120-4630-120                             | Recoupment Jail Fees          | -                      | -                      | -                            | -                             | -                            |
| 100-120-4640-120                             | Recoupment Arrest Fees        | 4,917.75               | 3,500.00               | 3,324.65                     | 4,432.87                      | 3,500.00                     |
| 100-120-4760-120                             | Insurance Proceeds            | 23,324.10              | -                      | 1,094.30                     | 1,094.30                      | -                            |
| 100-120-4800-120                             | Law Enforcement Miscellaneous | 3,143.83               | 2,160.00               | 2,556.72                     | 3,408.96                      | 2,160.00                     |
| 100-120-4810-120                             | School Resource Ofcr          | 85,983.48              | -                      | -                            | -                             | -                            |
| 100-120-4810-121                             | School Resource Ofcr Crowder  | -                      | -                      | -                            | -                             | -                            |
| 100-120-4820-120                             | Police Sale of Property       | 15,360.00              | -                      | -                            | -                             | -                            |
| 100-120-4840-120                             | Security Detail Reimburse     | 662.50                 | 4,000.00               | 525.00                       | 700.00                        | 4,000.00                     |
| 100-120-4990-120                             | Police Donations              | -                      | -                      | 101.85                       | 135.80                        | -                            |
| 100-120-4992-120                             | Donated Rewards               | -                      | -                      | -                            | -                             | -                            |
| <b>Total Police Department Revenues</b>      |                               | <b>\$ 582,489.89</b>   | <b>\$ 366,870.00</b>   | <b>\$ 281,489.95</b>         | <b>\$ 374,955.17</b>          | <b>\$ 378,602.00</b>         |
| Police Department Expenditures               |                               |                        |                        |                              |                               |                              |
| 100-120-5010-120                             | Police Dept Salaries          | 1,234,094.86           | 1,288,823.00           | 950,334.27                   | 1,199,433.00                  | 1,313,698.00                 |
| 100-120-5020-120                             | Police Dept Overtime          | 82,809.50              | 93,000.00              | 62,785.05                    | 83,713.40                     | 93,000.00                    |
| 100-120-5030-120                             | Police Dept Part Time         | 8,543.75               | 10,224.00              | 9,828.52                     | 13,104.69                     | 14,769.00                    |
| 100-120-5070-120                             | Availability Allowance        | 2,610.00               | 2,520.00               | 1,522.50                     | 2,030.00                      | 2,520.00                     |
| 100-120-5170-120                             | Police Dept Social Security   | 96,630.71              | 106,492.00             | 74,369.66                    | 99,163.21                     | 108,743.00                   |
| 100-120-5180-120                             | Police Dept Retirement        | 90,849.63              | 105,019.00             | 64,854.33                    | 86,472.44                     | 92,843.00                    |
| 100-120-5190-120                             | Police Dept Health Insurance  | 187,091.98             | 188,817.00             | 136,592.10                   | 182,122.80                    | 194,868.00                   |
| 100-120-5210-120                             | Police Dept Workers Comp.     | 45,678.41              | 60,972.00              | 62,613.27                    | 83,484.36                     | 62,261.00                    |
| 100-120-5260-120                             | Police Dept Prof. Services    | 48,262.03              | 62,675.00              | 47,133.18                    | 62,844.24                     | 1,062,975.00                 |
| 100-120-5300-120                             | Police Dept Insurance & Bonds | 8,191.27               | 13,748.00              | 11,663.81                    | 15,551.75                     | 15,135.00                    |
| 100-120-5320-120                             | Police Dept Facility Maint.   | 9,663.40               | 7,350.00               | 352.07                       | 469.43                        | 7,350.00                     |
| 100-120-5330-120                             | Police Dept Equipment Maint   | 27,786.59              | 31,500.00              | 23,297.65                    | 31,063.53                     | 28,000.00                    |
| 100-120-5360-120                             | Police Dept Member/Train/Trvl | 14,617.79              | 21,355.00              | 11,603.79                    | 15,471.72                     | 22,000.00                    |
| 100-120-5363-120                             | TSMCS Account                 | -                      | 2,000.00               | -                            | -                             | 2,000.00                     |
| 100-120-5380-120                             | Police Dept Uniforms          | 17,855.09              | 19,950.00              | 8,879.82                     | 11,839.76                     | 19,950.00                    |
| 100-120-5420-120                             | Police Care of Prisoners      | 31,680.00              | 40,000.00              | 22,175.00                    | 29,566.67                     | 40,000.00                    |
| 100-120-5500-120                             | Investigation Account         | -                      | -                      | -                            | -                             | -                            |
| 100-120-5530-120                             | Police Dept Fuels/Lubricants  | 54,049.51              | 70,000.00              | 38,613.64                    | 52,000.00                     | 60,000.00                    |
| 100-120-5540-120                             | Police Dept Chemicals         | 235.75                 | 263.00                 | -                            | -                             | 263.00                       |
| 100-120-5590-120                             | Police Dept General Supplies  | 7,632.37               | 11,550.00              | 6,570.61                     | 8,760.81                      | 10,000.00                    |
| 100-120-5590-122                             | ACO General Supplies          | 5,485.06               | 15,750.00              | 5,071.40                     | 6,761.87                      | 15,750.00                    |
| 100-120-5700-120                             | Police Dept Comp., Software   | 10,707.58              | 17,766.00              | 4,373.30                     | 5,831.07                      | 22,407.00                    |
| 100-120-6300-120                             | Police Dept Electricity       | 12,752.52              | 15,013.00              | 7,739.22                     | 10,318.96                     | 15,013.00                    |
| 100-120-6350-120                             | Police Dept Phones            | 14,431.17              | 15,120.00              | 10,219.64                    | 13,626.19                     | 7,553.00                     |
| 100-120-6380-120                             | Lease Purchase Payments       | 55,117.28              | -                      | -                            | -                             | -                            |
| 100-120-6390-120                             | Police Dept Minor Equipment   | 11,259.09              | 57,098.00              | 47,829.44                    | 63,772.59                     | 5,399.00                     |
| 100-120-5361-120                             | Police Academy Training       | 15,797.66              | 17,000.00              | (4,950.00)                   | -                             | 17,000.00                    |
| <b>Total Police Department Expenditures</b>  |                               | <b>\$ 2,093,833.00</b> | <b>\$ 2,274,005.00</b> | <b>\$ 1,603,472.27</b>       | <b>\$ 2,077,402.48</b>        | <b>\$ 3,233,497.00</b>       |
| Police Department Other Sources              |                               |                        |                        |                              |                               |                              |
| 100-000-3305-120                             | Trns from Public Safety Fund  | 317,688.00             | 522,441.00             | 766,809.00                   | 522,441.00                    | 1,237,547.00                 |
| <b>Total Police Department Other Sources</b> |                               | <b>\$ 317,688.00</b>   | <b>\$ 522,441.00</b>   | <b>\$ 766,809.00</b>         | <b>\$ 522,441.00</b>          | <b>\$ 1,237,547.00</b>       |

| Account                                     | Account Name                     | FY2023<br>Actual     | FY2024<br>Budget     | 6/30/2024<br>Actual  | FY2024<br>Actual     | FY2025<br>Budget     |
|---------------------------------------------|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Police Department Other Uses                |                                  |                      |                      |                      |                      |                      |
| 100-000-3224-000                            | Transfer to Police Grants        | 4,200.00             | 2,310.00             | -                    | 2,310.00             | 2,310.00             |
| 100-000-3285-120                            | Trns to Capital Improvement      | 362,232.62           | 151,000.00           | 259,719.57           | 151,000.00           | 80,000.00            |
| 100-000-3225-115                            | Transfer to Development Services | -                    | 50,000.00            | 37,500.00            | 50,000.00            | 50,000.00            |
|                                             |                                  |                      |                      |                      |                      | -                    |
|                                             |                                  |                      |                      |                      |                      | -                    |
| <b>Total Police Department Other Uses</b>   |                                  | <b>\$ 366,432.62</b> | <b>\$ 203,310.00</b> | <b>\$ 297,219.57</b> | <b>\$ 203,310.00</b> | <b>\$ 132,310.00</b> |
|                                             |                                  |                      |                      |                      |                      |                      |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSE |                                  | (1,560,087.73)       | (1,588,004.00)       | (852,392.89)         | (1,383,316.31)       | (1,749,658.00)       |

| Police                |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.60%    |

Payroll Detail

| FTE                       | #     | FY2024          | FY2025 Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance  | Work<br>Comp | Total Salary &<br>Benefits |
|---------------------------|-------|-----------------|-----------------|-----------------------|---------------------------|--------------------|------------|------------|--------------|----------------------------|
| Baird, Jason              | 1     | 75,358.92       | \$ 77,619.69    |                       |                           | 5,938.00           | 5,123.00   | 7,795.00   | 3,400.00     | \$ 99,875.69               |
| Sharp, Robert             | 1     | 64,138.36       | \$ 66,062.51    |                       |                           | 5,054.00           | 4,361.00   | 7,990.36   | 2,894.00     | \$ 86,361.87               |
| Whitehead, Michael        | 1     | 64,138.36       | \$ 66,062.51    |                       | 360                       | 5,054.00           | 4,361.00   | 7,795.00   | 2,894.00     | \$ 86,526.51               |
| Schlessman, Rustin        | 1     | 55,424.72       | \$ 57,087.46    |                       | 360                       | 4,368.00           | 3,768.00   | 7,990.36   | 2,501.00     | \$ 76,074.82               |
| Tomlinson, Jordan         | 1     | 49,603.06       | \$ 51,091.15    |                       | 0                         | 3,909.00           | 3,373.00   | 7,795.00   | 2,238.00     | \$ 68,406.15               |
| Beshars, Brandon          | 1     | 55,424.72       | \$ 57,087.46    |                       | 360                       | 4,368.00           | 3,768.00   | 7,795.00   | 2,501.00     | \$ 75,879.46               |
| Howe, Rodney              | 1     | 55,424.72       | \$ 57,087.46    |                       | 0                         | 4,368.00           | 3,768.00   | 7,878.72   | 2,501.00     | \$ 75,603.19               |
| Houghton, Joshua          | 1     | 53,909.70       | \$ 55,526.99    |                       | 360                       | 4,248.00           | 3,665.00   | 7,906.64   | 2,433.00     | \$ 74,139.63               |
| Estrada, James            | 1     | 45,995.04       | \$ 47,374.89    |                       | 0                         | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.89               |
| Hackworth, Connor         | 1     | 47,455.72       | \$ 48,879.39    |                       |                           | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
| Graham, Zach              | 1     | 45,995.04       | \$ 47,374.89    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.89               |
| Kuhlman, Drey             | 1     | 47,455.72       | \$ 48,879.39    |                       | 0                         | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
| Crespo-Sariles, Jacquelin | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Bailey, Mackenzie         | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Brumfield, Keith          | 1     | 49,603.06       | \$ 51,091.15    |                       | 360                       | 3,909.00           | 3,373.00   | 7,906.64   | 2,238.00     | \$ 68,877.79               |
| Open ACO                  | 1     | 52,339.56       | \$ 43,965.00    |                       |                           | 3,364.00           | 2,902.00   | 7,795.00   | 1,926.00     | \$ 59,952.00               |
| Vue, Brandon Sian         | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Drake, Curt               | 1     | 53,909.70       | \$ 55,526.99    |                       | 360                       | 4,248.00           | 3,665.00   | 7,795.00   | 2,433.00     | \$ 74,027.99               |
| Kimmel, Rachel            | 1     | 47,212.10       | \$ 48,628.46    |                       |                           | 3,721.00           | 3,210.00   | 7,878.72   | 2,130.00     | \$ 65,568.19               |
| Scheppert, Shadrack       | 1     | 45,995.04       | \$ 48,879.39    |                       |                           | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
| Moudy, Nathaniel          | 1     | 49,603.06       | \$ 51,091.15    |                       | 360                       | 3,909.00           | 3,373.00   | 7,795.00   | 2,238.00     | \$ 68,766.15               |
| Mallory, Mari             | 1     | 47,211.84       | \$ 48,628.20    |                       |                           | 3,721.00           | 3,210.00   | 7,795.00   | 2,130.00     | \$ 65,484.20               |
| Cook, Chevelle            | 1     | 45,995.04       | \$ 47,374.89    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.89               |
| Duckett, Hunter           | 1     | 43,965.74       | \$ 47,374.77    |                       |                           | 3,625.00           | 3,127.00   | 7,795.00   | 2,076.00     | \$ 63,997.77               |
| Dulany, Brian             | 1     | 47,455.72       | \$ 48,879.39    |                       |                           | 3,740.00           | 3,227.00   | 7,795.00   | 2,141.00     | \$ 65,782.39               |
|                           | 25.00 | \$ 1,275,512.16 | 1,313,697.50    | -                     | 2,520.00                  | 100,514.00         | 86,717.00  | 195,656.44 | 57,553.00    | \$ 1,756,657.94            |

|                      | Current Estimated | Proposed     |
|----------------------|-------------------|--------------|
| Overtime             | 83,713.40         | 93,000.00    |
| Part Time & Seasonal | 13,104.69         | 14,769.00    |
| Total Salaries       | 1,372,330.25      | 1,421,466.50 |

| Police Revenues  |                               | Department Request |                                        |
|------------------|-------------------------------|--------------------|----------------------------------------|
|                  |                               | Amount             | Justification & Supporting Information |
| 100-120-4080-122 | Animal Licenses               | 500.00             |                                        |
| 100-120-4130-120 | Sanitation Enforcement        | 100,000.00         | historical average                     |
| 100-120-4200-120 | Grant Revenue                 | 16,042.00          | Vest grant, MODOT HMV and DWI grant    |
| 100-120-4205-120 | MIRMA Grant                   |                    | not eligible                           |
| 100-120-4600-120 | Court Fines                   | 250,000.00         |                                        |
| 100-120-4610-120 | Police Training Fees          | 2,000.00           |                                        |
| 100-120-4620-120 | C. Victim's Compensation      | 400.00             |                                        |
| 100-120-4630-120 | Recoupment Jail Fees          | -                  |                                        |
| 100-120-4640-120 | Recoupment Arrest Fees        | 3,500.00           | Receive on DWI only                    |
| 100-120-4800-120 | Law Enforcement Miscellaneous | 2,160.00           | NCSO Tower rental                      |
| 100-120-4840-120 | Security Detail Reimburse     | 4,000.00           |                                        |
|                  |                               | 378,602.00         |                                        |

| Police Expenditures |                             | Amount       | Justification & Supporting Information |
|---------------------|-----------------------------|--------------|----------------------------------------|
| 100-120-5010-120    | Police Dept Salaries        | 1,313,698.00 |                                        |
| 100-120-5020-120    | Police Dept Overtime        | 93,000.00    |                                        |
| 100-120-5030-120    | Police Dept Part Time       | 14,769.00    |                                        |
| 100-120-5070-120    | Availability Allowance      | 2,520.00     |                                        |
| 100-120-5170-120    | Police Dept Social Security | 108,743.00   |                                        |

**Police Expenditures**

|                  |                              |
|------------------|------------------------------|
| 100-120-5180-120 | Police Dept Retirement       |
| 100-120-5190-120 | Police Dept Health Insurance |
| 100-120-5210-120 | Police Dept Workers Comp.    |

| Amount     | Justification & Supporting Information |
|------------|----------------------------------------|
| 92,843.00  |                                        |
| 194,868.00 |                                        |
| 62,261.00  |                                        |

**Police Expenditures**

|                  |                            |
|------------------|----------------------------|
| 100-120-5260-120 | Police Dept Prof. Services |
|------------------|----------------------------|

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,062,975.00 | Pest Control \$540, Psych Eval \$200, AT&T Cell cards \$8,413, FileOnQ \$1200, Freeman Occumed (psychicals) \$600, Idemia Yearly Maint \$350, Harris Yearly Maint \$3,519, Lakeland (Copier) \$1200, Marmic Fire \$800, Mo Notary \$400, MSHP Tech Fund \$840, Netmotion Yearly \$4,273, Recorder of deeds \$270, Safety Kleen (oil Disposal) \$60, S&S Security Annual Monitor \$265, S&S Security Annual Maint \$104, Sam's Club \$45, Stronghold Storage \$1000, Stronghold Microsoft Firewall Month Maint \$31,496, Superior \$5000, Lawn Care for codes \$1000, Radar Shop (Annual Calibration Radars) \$1100, Architect \$1,000,000, Demo and testing 301 Wood \$15,000, Annual Maint ro Pub Saf Services (FTO Software) \$300 |
| 15,135.00    | Property Ins, Drone Ins \$1,618                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7,350.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 28,000.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 22,000.00    | SW MO Cyber Crime Task Force Membership \$100, MO Police Chief Association memberships \$200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2,000.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 19,950.00    | 4700 BVP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 40,000.00    | Increased due to jail fee increase (Average \$1880.00 per month)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 60,000.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 263.00       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10,000.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 15,750.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 22,407.00    | \$6,888.25, Cyber Software \$3,866.52, server license upgrade \$6,033.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 15,013.00    | Last 6 Month usage averaged out over 12 month.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7,553.00     | includes 15 voicemail only licenses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5,399.00     | \$3000 WolfCom redaction advanced software, needed to redact certain items from body cam video, (2) Fujitsu Fi-8170 Document scanners \$1300 to replace both clerk's scanners, HP Enterprise printer for report room \$1099.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 17,000.00    | Tuition \$7,000 books and fees \$1,500 each - for 2 cadets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3,233,497.00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Police Other Sources**

|                  |                              |
|------------------|------------------------------|
| 100-000-3305-120 | Trns from Public Safety Fund |
|------------------|------------------------------|

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,237,547.00 | Patrol Cars 2 \$80,000 would allow \$5000 trade in each \$3000 WolfCom redaction advanced software, needed to redact certain items from body cam video, (2) Fujitsu Fi-8170 Document scanners \$1300 to replace both clerk's scanners, HP Enterprise printer for report room \$1099. Architect \$1,000,000, Demo and Testing 301 Wood Property \$15,000 |

**Police Other Uses**

|                  |                                  |
|------------------|----------------------------------|
| 100-000-3224-000 | Transfer to Police Grants        |
| 100-000-3285-120 | Trns to Capital Improvement      |
| 100-000-3225-115 | Transfer to Development Services |

| Amount    | Justification & Supporting Information                  |
|-----------|---------------------------------------------------------|
| 2,310.00  |                                                         |
| 80,000.00 | Patrol Cars 2 \$80,000 would allow \$5000 trade in each |
| 50,000.00 | Code Enforcement Officer                                |

|              |
|--------------|
| Police Grant |
|--------------|

| Account                                                  | Account Name               | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------------------|----------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Police Grant Revenues                                    |                            |                     |                     |                              |                               |                              |
| 120-128-4240-120                                         | DWI Grant Revenue          | -                   | -                   | -                            | -                             | 5,000.00                     |
| 120-129-4230-120                                         | HMV Grant Revenue          | -                   | -                   | -                            | -                             | 9,180.00                     |
| 120-131-4220-120                                         | Justice Dept Vest Grant    | 4,200.00            | 2,310.00            | -                            | 2,310.00                      | 1,862.00                     |
| 120-131-4250-120                                         | LLEBG Grant Revenue        | -                   | 10,000.00           | -                            | 10,000.00                     | -                            |
| <b>Total Police Grant Revenues</b>                       |                            | <b>\$ 4,200.00</b>  | <b>\$ 12,310.00</b> | <b>\$ -</b>                  | <b>\$ 12,310.00</b>           | <b>\$ 16,042.00</b>          |
| Police Grant Expenditures                                |                            |                     |                     |                              |                               |                              |
| 120-128-5020-120                                         | DWI Overtime               | -                   | -                   | -                            | -                             | 5,000.00                     |
| 120-128-5590-120                                         | DWI Grant General Supplies | -                   | -                   | -                            | -                             | -                            |
| 120-129-5020-120                                         | HMV Overtime               | -                   | -                   | -                            | -                             | 9,180.00                     |
| 120-129-5360-120                                         | HMV Grant Training         | -                   | -                   | -                            | -                             | -                            |
| 120-129-5590-120                                         | HMV Grant General Supplies | -                   | -                   | -                            | -                             | -                            |
| 120-131-5380-120                                         | Police Dept Uniforms-Vests | 8,400.00            | 4,620.00            | 4,619.93                     | 4,620.00                      | 3,725.00                     |
| 120-131-5790-120                                         | LLEBG-Law Enf Safety Prog  | -                   | 10,000.00           | -                            | 10,000.00                     | -                            |
| <b>Total Police Grant Expenditures</b>                   |                            | <b>\$ 8,400.00</b>  | <b>\$ 14,620.00</b> | <b>\$ 4,619.93</b>           | <b>\$ 14,620.00</b>           | <b>\$ 17,905.00</b>          |
| Police Grant Other Sources                               |                            |                     |                     |                              |                               |                              |
| 120-000-3324-000                                         | Transfer from Police Dept  | 4,200.00            | 2,310.00            | -                            | 2,310.00                      | 2,310.00                     |
| 120-000-3326-000                                         | Trasnfer from Dare         | -                   | -                   | -                            | -                             | -                            |
| <b>Total Police Grant Other Sources</b>                  |                            | <b>\$ 4,200.00</b>  | <b>\$ 2,310.00</b>  | <b>\$ -</b>                  | <b>\$ 2,310.00</b>            | <b>\$ 2,310.00</b>           |
| Police Grant Other Uses                                  |                            |                     |                     |                              |                               |                              |
| <b>Total Police Grant Other Uses</b>                     |                            | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                   |                            | -                   | -                   | (4,619.93)                   | -                             | 447.00                       |
| <b>Police Grant Beginning Fund Balance"October 1"</b>    |                            | <b>\$ 10,338.00</b> | <b>\$ 10,338.00</b> | <b>\$ 10,338.00</b>          | <b>\$ 10,338.00</b>           | <b>\$ 10,338.00</b>          |
| <b>Total Police Grant Funding Sources</b>                |                            | <b>\$ 18,738.00</b> | <b>\$ 24,958.00</b> | <b>\$ 10,338.00</b>          | <b>\$ 24,958.00</b>           | <b>\$ 28,690.00</b>          |
| <b>Total Police Grant Funding Uses</b>                   |                            | <b>\$ 8,400.00</b>  | <b>\$ 14,620.00</b> | <b>\$ 4,619.93</b>           | <b>\$ 14,620.00</b>           | <b>\$ 17,905.00</b>          |
| <b>Police Grant Beginning Fund Balance"September 30"</b> |                            | <b>\$ 10,338.00</b> | <b>\$ 10,338.00</b> | <b>\$ 5,718.07</b>           | <b>\$ 10,338.00</b>           | <b>\$ 10,785.00</b>          |

| Police Grant          |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | -        |
| Retirement Rate       | -        |

Police Grant Revenues

|                  |                         |
|------------------|-------------------------|
| 120-128-4240-120 | DWI Grant Revenue       |
| 120-129-4230-120 | HMV Grant Revenue       |
| 120-131-4220-120 | Justice Dept Vest Grant |
| 120-131-4250-120 | LLEBG Grant Revenue     |

Police Grant Expenditures

|                  |                            |
|------------------|----------------------------|
| 120-128-5020-120 | DWI Overtime               |
| 120-128-5590-120 | DWI Grant General Supplies |
| 120-129-5020-120 | HMV Overtime               |
| 120-129-5360-120 | HMV Grant Training         |
| 120-129-5590-120 | HMV Grant General Supplies |
| 120-131-5380-120 | Police Dept Uniforms-Vests |
| 120-131-5790-120 | LLEBG-Law Enf Safety Prog  |

Police Grant Other Sources

|                  |                           |
|------------------|---------------------------|
| 120-000-3324-000 | Transfer from Police Dept |
|------------------|---------------------------|

Police Grant Other Uses

| Department Request |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| Amount             | Justification & Supporting Information                                                                       |
| 5,000.00           |                                                                                                              |
| 9,180.00           | Salary for the life of the detail plus the possibility of 4 radar units and LetSAC training for two officers |
| 1,862.00           |                                                                                                              |
| -                  |                                                                                                              |
| 16,042.00          |                                                                                                              |

| Amount    | Justification & Supporting Information           |
|-----------|--------------------------------------------------|
| 5,000.00  |                                                  |
|           |                                                  |
| 9,180.00  |                                                  |
|           |                                                  |
|           |                                                  |
| 3,725.00  | 5 Officers 50% match for a total of \$3725.00    |
| -         | Has not even been offered for the last two years |
| 17,905.00 |                                                  |

| Amount   | Justification & Supporting Information |
|----------|----------------------------------------|
| 2,310.00 |                                        |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Municipal Court

Vickie Smith  
Municipal Court Clerk  
[vsmith@neoshomo.org](mailto:vsmith@neoshomo.org)

The Municipal Court is authorized by the Missouri Constitution and is a part of the Circuit Court. The Court's function is to adjudicate legal disputes between parties and carry out the administration of justice in accordance with the rule of law. The Court's role is to determine disputes in the form of cases which are brought before the judge. The court provides defendants with a fair and impartial trial on any alleged violation of a city ordinance. These include, but are not limited to traffic enforcement, peace disturbance, shoplifting, assaults, drug/paraphernalia charges, code violations and animal charges. The Municipal Court is open to the public for any and all court hearings.

| Revenues<br>Category | FY2023<br>Actual | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|----------------------|------------------|-----------------------------|----------------------------------|------------------------------|
| Taxes                | -                | -                           | -                                | -                            |
| Intergovernmental    | -                | -                           | -                                | -                            |
| Licenses & Permits   | -                | -                           | -                                | -                            |
| Charges for Services | -                | -                           | -                                | -                            |
| Fines & Forfeitures  | 22,296.99        | 17,400.00                   | 17,089.34                        | 17,400.00                    |
| Miscellaneous        | -                | -                           | -                                | -                            |
| Other Sources        | -                | -                           | -                                | -                            |
| <b>Total</b>         | <b>22,296.99</b> | <b>17,400.00</b>            | <b>17,089.34</b>                 | <b>17,400.00</b>             |
|                      | \$ -             | \$ -                        | \$ -                             | \$ -                         |

| Expense<br>Category           | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|-------------------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Salaries, Benefits, & Support | 141,998.44        | 152,192.00                  | 114,979.33                       | 156,827.00                   |
| Supplies & Materials          | 1,977.20          | 2,730.00                    | 1,933.18                         | 2,877.00                     |
| Maintenance & Repair          | 479.98            | 500.00                      | -                                | 500.00                       |
| Contractual Services          | 4,975.20          | 4,850.00                    | 4,341.80                         | 9,850.00                     |
| Utilities                     | 1,200.00          | 1,260.00                    | 1,060.16                         | 2,837.00                     |
| Other Expenses                | 4,808.42          | 5,054.00                    | 3,118.35                         | 5,120.00                     |
| Capital                       | -                 | -                           | -                                | -                            |
| Other Uses                    | -                 | -                           | -                                | -                            |
| Debt Service                  | -                 | -                           | -                                | -                            |
| <b>Total</b>                  | <b>155,439.24</b> | <b>166,586.00</b>           | <b>125,432.82</b>                | <b>178,011.00</b>            |
|                               | \$ -              | \$ -                        | \$ -                             | \$ -                         |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Phones** - Increase for revised allocation fiber and phones

#### Decreases:

|                         | FY2023<br>Actual | FY2024<br>Adopted<br>Budget | FY2024<br>Current<br>Budget | FY2025<br>Proposed<br>Budget |
|-------------------------|------------------|-----------------------------|-----------------------------|------------------------------|
| Staffing Levels         |                  |                             |                             |                              |
| Municipal Court Clerk   | 1                | 1                           | 1                           | 1                            |
| Deputy Court Clerk      | 1                | 1                           | 1                           | 1                            |
| Municipal Judge         | 1                | 1                           | 1                           | 1                            |
| <b>DEPARTMENT TOTAL</b> | <b>3</b>         | <b>3</b>                    | <b>3</b>                    | <b>3</b>                     |



|                 |
|-----------------|
| Municipal Court |
|-----------------|

| Account                                      | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Municipal Court Revenues                     |                                |                      |                      |                              |                               |                              |
| 100-125-4590-125                             | Court Costs                    | 20,568.29            | 16,000.00            | 15,731.51                    | 20,568.29                     | 16,000.00                    |
| 100-125-4611-125                             | Court Clerk Training Fees      | 1,728.70             | 1,400.00             | 1,357.83                     | 1,810.44                      | 1,400.00                     |
| <b>Total Municipal Court Revenues</b>        |                                | <b>\$ 22,296.99</b>  | <b>\$ 17,400.00</b>  | <b>\$ 17,089.34</b>          | <b>\$ 22,378.73</b>           | <b>\$ 17,400.00</b>          |
| Municipal Court Expenditures                 |                                |                      |                      |                              |                               |                              |
| 100-125-5010-125                             | Municipal Court Salaries       | 100,895.19           | 106,746.00           | 80,598.58                    | 107,464.77                    | 109,138.00                   |
| 100-125-5020-125                             | Municipal Court Overtime       | 456.38               | 1,800.00             | 1,353.07                     | 1,804.09                      | 1,800.00                     |
| 100-125-5170-125                             | Municipal Court Social Secur.  | 6,477.62             | 8,304.00             | 5,478.98                     | 7,305.31                      | 8,487.00                     |
| 100-125-5180-125                             | Municipal Court Retirement     | 5,343.45             | 5,428.00             | 4,097.59                     | 5,463.45                      | 6,657.00                     |
| 100-125-5190-125                             | Municipal Court Health Ins.    | 23,603.08            | 22,659.00            | 17,409.66                    | 23,212.88                     | 23,385.00                    |
| 100-125-5210-125                             | Municipal Court Workers Comp.  | 2,937.82             | 4,755.00             | 4,624.95                     | 6,166.60                      | 4,860.00                     |
| 100-125-5260-125                             | Municipal Court Prof. Services | 4,975.20             | 3,850.00             | 4,341.80                     | 5,789.07                      | 8,850.00                     |
| 100-125-5261-125                             | Court Appointed Expenses       | -                    | 1,000.00             | -                            | -                             | 1,000.00                     |
| 100-125-5263-125                             | Domestic Violence Expense      | 3,738.50             | 3,600.00             | 2,461.00                     | 3,281.33                      | 3,600.00                     |
| 100-125-5330-125                             | Municipal Court Equip. Maint.  | 479.98               | 500.00               | -                            | -                             | 500.00                       |
| 100-125-5360-125                             | Municipal Court Mem/Train/Trvl | 2,284.90             | 2,500.00             | 1,416.50                     | 1,888.67                      | 2,500.00                     |
| 100-125-5590-125                             | Municipal Court Gen Supplies   | 1,977.20             | 2,730.00             | 1,933.18                     | 2,577.57                      | 2,877.00                     |
| 100-125-5700-125                             | Municipal Court Comp., Softwre | 1,069.92             | 1,454.00             | 657.35                       | 657.35                        | 1,520.00                     |
| 100-125-6350-125                             | Municipal Court Phones         | 1,200.00             | 1,260.00             | 1,060.16                     | 1,413.55                      | 2,837.00                     |
| <b>Total Municipal Court Expenditures</b>    |                                | <b>\$ 155,439.24</b> | <b>\$ 166,586.00</b> | <b>\$ 125,432.82</b>         | <b>\$ 167,024.64</b>          | <b>\$ 178,011.00</b>         |
| Municipal Court Other Sources                |                                |                      |                      |                              |                               |                              |
| <b>Total Municipal Court Other Sources</b>   |                                | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Municipal Court Other Uses                   |                                |                      |                      |                              |                               |                              |
| <b>Total Municipal Court Other Uses</b>      |                                | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                | (133,142.25)         | (149,186.00)         | (108,343.48)                 | (144,645.91)                  | (160,611.00)                 |

| Municipal Court       |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE           | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|---------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Smith, Vickie | 1    | 44,990.40  | \$ 46,340.11       |                       |                           | 3,546.00           | 2,781.00   | 7,795.00  | 2,030.00     | \$ 62,492.11               |
| Reding, Donna | 1    | 34,760.44  | \$ 35,803.25       |                       |                           | 2,739.00           | 2,149.00   | 7,795.00  | 1,569.00     | \$ 50,055.25               |
| Cooper, Duane | 1    | 26,994.24  | \$ 26,994.24       |                       |                           | 2,066.00           | 1,620.00   | 7,906.64  | 1,183.00     | \$ 39,769.88               |
|               | 3.00 | 106,745.08 | 109,137.61         | -                     | -                         | 8,351.00           | 6,550.00   | 23,496.64 | 4,782.00     | \$ 152,317.24              |

|                      |            |            |
|----------------------|------------|------------|
| Overtime             | 1,804.09   | 1,800.00   |
| Part Time & Seasonal |            |            |
| Total Salaries       | 108,549.17 | 110,937.61 |

|                          |                           | Department Request |                                        |
|--------------------------|---------------------------|--------------------|----------------------------------------|
|                          |                           | Amount             | Justification & Supporting Information |
| Municipal Court Revenues |                           |                    |                                        |
| 100-125-4590-125         | Court Costs               | 16,000.00          | 5 Year Historical                      |
| 100-125-4611-125         | Court Clerk Training Fees | 1,400.00           | 5 Year Historical                      |
|                          |                           |                    |                                        |
|                          |                           | 17,400.00          |                                        |

|                              |                                 | Amount     | Justification & Supporting Information                                                                                               |
|------------------------------|---------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Municipal Court Expenditures |                                 |            |                                                                                                                                      |
| 100-125-5010-125             | Municipal Court Salaries        | 109,138.00 |                                                                                                                                      |
| 100-125-5020-125             | Municipal Court Overtime        | 1,800.00   |                                                                                                                                      |
| 100-125-5170-125             | Municipal Court Social Secur.   | 8,487.00   |                                                                                                                                      |
| 100-125-5180-125             | Municipal Court Retirement      | 6,657.00   |                                                                                                                                      |
| 100-125-5190-125             | Municipal Court Health Ins.     | 23,385.00  |                                                                                                                                      |
| 100-125-5210-125             | Municipal Court Workers Comp.   | 4,860.00   |                                                                                                                                      |
| 100-125-5260-125             | Municipal Court Prof. Services  | 8,850.00   | Stronghold \$1550, Copier Maintenance \$800, Interpreters \$1500                                                                     |
| 100-125-5261-125             | Court Appointed Expenses        | 1,000.00   |                                                                                                                                      |
| 100-125-5263-125             | Domestic Violence Expense       | 3,600.00   |                                                                                                                                      |
| 100-125-5330-125             | Municipal Court Equip. Maint.   | 500.00     |                                                                                                                                      |
| 100-125-5360-125             | Municipal Court Mem/Train/Trvl  | 2,500.00   | MACA memberships \$120, 2 Judge membership and conference \$600, Clerk conference \$300, conference travel and hotel \$1200 for both |
| 100-125-5590-125             | Municipal Court Gen Supplies    | 2,877.00   | Postage \$1,330, Forms \$,1500, Neosho logo shirts \$47                                                                              |
| 100-125-5700-125             | Municipal Court Comp., Software | 1,520.00   | Firewall \$210, Office 365 \$712.58, Cyber software \$399.98, serv                                                                   |
| 100-125-6350-125             | Municipal Court Phones          | 2,837.00   |                                                                                                                                      |
|                              |                                 |            |                                                                                                                                      |
|                              |                                 | 178,011.00 |                                                                                                                                      |

| Municipal Court Other Sources | Amount | Justification & Supporting Information |
|-------------------------------|--------|----------------------------------------|
|                               |        |                                        |

| Municipal Court Other Uses | Amount | Justification & Supporting Information |
|----------------------------|--------|----------------------------------------|
|                            |        |                                        |

## Information Technology

Richard Leavens  
Development Services Director  
[rlavens@neoshomo.org](mailto:rlavens@neoshomo.org)

The Information Technology Department oversees the City's use of existing and emerging technologies in government operations, and its delivery of services to the public. The City has one FTE plus contracts with a third party.

|                      |               | FY2024   | FY2024      | FY2025   |
|----------------------|---------------|----------|-------------|----------|
| Revenue              | FY2023        | Adopted  | Current YTD | Proposed |
| Category             | Actual        | Budget   | Actuals     | Budget   |
| Taxes                | -             | -        | -           | -        |
| Intergovernmental    | -             | -        | -           | -        |
| Licenses & Permits   | -             | -        | -           | -        |
| Charges for Services | -             | -        | -           | -        |
| Fines & Forefeitures | -             | -        | -           | -        |
| Miscellaneous        | 115.39        | -        | -           | -        |
| Other Sources        | -             | -        | -           | -        |
| <b>Total</b>         | <b>115.39</b> | <b>-</b> | <b>-</b>    | <b>-</b> |
|                      | \$ -          | \$ -     | \$ -        | \$ -     |

|                               |                  | FY2024            | FY2024           | FY2025            |
|-------------------------------|------------------|-------------------|------------------|-------------------|
| Expense                       | FY2023           | Adopted           | Current YTD      | Proposed          |
| Category                      | Actual           | Budget            | Actuals          | Budget            |
| Salaries, Benefits, & Support | 44,400.84        | 47,980.00         | 35,495.62        | 49,712.00         |
| Supplies & Materials          | -                | 260.00            | 27.48            | 260.00            |
| Maintenance & Repair          | -                | -                 | -                | -                 |
| Contractual Services          | 21,279.55        | 53,058.00         | 9,895.40         | 53,243.00         |
| Utilities                     | -                | -                 | -                | -                 |
| Other Expenses                | 6,865.73         | 2,840.00          | 810.81           | 699.00            |
| Capital                       | -                | -                 | -                | -                 |
| Other Uses                    | -                | -                 | -                | -                 |
| Debt Service                  | -                | -                 | -                | -                 |
| <b>Total</b>                  | <b>72,546.12</b> | <b>104,138.00</b> | <b>46,229.31</b> | <b>103,914.00</b> |
|                               | \$ -             | \$ -              | \$ -             | \$ -              |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Computers/ Software-** Increase based on current need server upgrade

#### Decreases:

|                         | FY2023 | FY2024   | FY2024   | FY2025   |
|-------------------------|--------|----------|----------|----------|
| Staffing Levels         | Actual | Adopted  | Current  | Proposed |
|                         |        | Budget   | Budget   | Budget   |
| IT Technician           |        | 1        | 1        | 1        |
|                         |        |          |          |          |
| <b>DEPARTMENT TOTAL</b> |        | <b>1</b> | <b>1</b> | <b>1</b> |

|                        |
|------------------------|
| Information Technology |
|------------------------|

| Account                                           | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------|-------------------------------|---------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Information Technology Revenues                   |                               |                     |                      |                              |                               |                              |
| 100-141-4820-141                                  | Sale of IT Property           | 115.39              | -                    | -                            | -                             | -                            |
| <b>Total Information Technology Revenues</b>      |                               | <b>\$ 115.39</b>    | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Information Technology Expenditures               |                               |                     |                      |                              |                               |                              |
| 100-141-5010-141                                  | IT Salaries                   | 31,544.88           | 32,754.00            | 24,904.19                    | 33,205.59                     | 33,736.00                    |
| 100-141-5020-141                                  | IT Overtime                   | 221.66              | 200.00               | 336.36                       | 448.48                        | 200.00                       |
| 100-141-5070-141                                  | Availability Allowance        | 360.00              | 360.00               | 270.00                       | 360.00                        | 360.00                       |
| 100-141-5170-141                                  | IT Social Security            | 2,417.47            | 2,521.00             | 1,932.62                     | 2,576.83                      | 2,597.00                     |
| 100-141-5180-141                                  | IT Retirement                 | 1,694.70            | 1,648.00             | 1,276.96                     | 1,702.61                      | 2,037.00                     |
| 100-141-5190-141                                  | IT Health Insurance           | 7,199.24            | 7,553.00             | 5,338.55                     | 7,118.07                      | 7,795.00                     |
| 100-141-5210-141                                  | IT Workers Compensation       | 944.89              | 1,444.00             | 1,436.94                     | 1,915.92                      | 1,487.00                     |
| 100-141-5260-141                                  | IT Professional Services      | 21,279.55           | 53,058.00            | 9,895.40                     | 13,193.87                     | 53,243.00                    |
| 100-141-5360-141                                  | IT Membership/Training/Travel | 18.00               | 1,500.00             | -                            | 1,500.00                      | 1,500.00                     |
| 100-141-5590-141                                  | IT General Supplies           | -                   | 260.00               | 27.48                        | 36.64                         | 260.00                       |
| 100-141-5700-141                                  | IT Computers, Software, Etc.  | 6,865.73            | 2,840.00             | 810.81                       | 810.81                        | 699.00                       |
| <b>Total Information Technology Expenditures</b>  |                               | <b>\$ 72,546.12</b> | <b>\$ 104,138.00</b> | <b>\$ 46,229.31</b>          | <b>\$ 62,868.81</b>           | <b>\$ 103,914.00</b>         |
| Information Technology Other Sources              |                               |                     |                      |                              |                               |                              |
| <b>Total Information Technology Other Sources</b> |                               | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Information Technology Other Uses                 |                               |                     |                      |                              |                               |                              |
| <b>Total Information Technology Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES      |                               | (72,430.73)         | (104,138.00)         | (46,229.31)                  | (62,868.81)                   | (103,914.00)                 |

| Information Technology |          |
|------------------------|----------|
| Health Insurance Rate  | 7,794.72 |
| Work Comp Rate         | 4.38%    |
| Retirement Rate        | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Moody, George        | 1    | 32,752.98 | \$ 33,735.57       |                       | 360                       | 2,581.00           | 2,025.00   | 7,795.00  | 1,478.00     | \$ 47,974.57               |
|                      | 1.00 | 32,752.98 | 33,735.57          | -                     | 360.00                    | 2,581.00           | 2,025.00   | 7,795.00  | 1,478.00     | 47,974.57                  |
| Overtime             |      | 448.48    | 200.00             |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      |           |                    |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 33,201.46 | 33,935.57          |                       |                           |                    |            |           |              |                            |

| Department Request                   |                                        |
|--------------------------------------|----------------------------------------|
| Amount                               | Justification & Supporting Information |
| Information Technology Revenues      |                                        |
| 100-141-4820-141 Sale of IT Property |                                        |
|                                      |                                        |

| Information Technology Expenditures            | Amount     | Justification & Supporting Information                                                                                      |
|------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| 100-141-5010-141 IT Salaries                   | 33,736.00  |                                                                                                                             |
| 100-141-5020-141 IT Overtime                   | 200.00     |                                                                                                                             |
| 100-141-5070-141 Availability Allowance        | 360.00     |                                                                                                                             |
| 100-141-5170-141 IT Social Security            | 2,597.00   |                                                                                                                             |
| 100-141-5180-141 IT Retirement                 | 2,037.00   |                                                                                                                             |
| 100-141-5190-141 IT Health Insurance           | 7,795.00   |                                                                                                                             |
| 100-141-5210-141 IT Workers Compensation       | 1,487.00   |                                                                                                                             |
| 100-141-5260-141 IT Professional Services      | 53,243.00  | Stronghold \$43,176, CivicEngage \$4,500, Vspere-\$400, SSL Certificate-\$192, Zoom \$149.9, Vmware \$176.75, GoGov \$4,104 |
| 100-141-5360-141 IT Membership/Training/Travel | 1,500.00   |                                                                                                                             |
| 100-141-5590-141 IT General Supplies           | 260.00     | Battery Backups                                                                                                             |
| 100-141-5700-141 IT Computers, Software, Etc.  | 699.00     | firewall \$210, Office 365 \$237.53, Cyber Software \$133.33, Domain .ORG renewal 19.50, server software 5 upgrades \$98.45 |
|                                                | 103,914.00 |                                                                                                                             |

| Information Technology Other Sources | Amount | Justification & Supporting Information |
|--------------------------------------|--------|----------------------------------------|
|                                      |        |                                        |
|                                      |        |                                        |

| Information Technology Other Uses | Amount | Justification & Supporting Information |
|-----------------------------------|--------|----------------------------------------|
|                                   |        |                                        |
|                                   |        |                                        |

## Fleet Maintenance

Nate Siler  
Public Works Director

[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

Fleet Maintenance is responsible for over 150 vehicles and equipment from every department throughout the City. Services range from oil changes, brakes, and major replacement and repairs.

| Revenue Category     | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------|-----------------------|----------------------------|------------------------|
| Taxes                | -             | -                     | -                          | -                      |
| Intergovernmental    | -             | -                     | -                          | -                      |
| Licenses & Permits   | -             | -                     | -                          | -                      |
| Charges for Services | -             | -                     | -                          | -                      |
| Fines & Forfeitures  | -             | -                     | -                          | -                      |
| Miscellaneous        | -             | -                     | -                          | -                      |
| Other Sources        | -             | -                     | -                          | -                      |
| <b>Total</b>         | -             | -                     | -                          | -                      |
|                      | \$ -          | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual   | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-----------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -               | -                     | -                          | -                      |
| Supplies & Materials          | 1,112.36        | 2,100.00              | 226.89                     | 2,100.00               |
| Maintenance & Repair          | -               | -                     | -                          | -                      |
| Contractual Services          | -               | -                     | -                          | -                      |
| Utilities                     | -               | -                     | -                          | -                      |
| Other Expenses                | 3,481.85        | 6,300.00              | 4,587.80                   | 17,200.00              |
| Capital                       | -               | -                     | -                          | -                      |
| Other Uses                    | -               | -                     | -                          | -                      |
| Debt Service                  | -               | -                     | -                          | -                      |
| <b>Total</b>                  | <b>4,594.21</b> | <b>8,400.00</b>       | <b>4,814.69</b>            | <b>19,300.00</b>       |
|                               | \$ -            | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Minor Equipment** -Increase for tooling needs

#### Decreases:

| Staffing Levels                             | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|---------------------------------------------|---------------|-----------------------|-----------------------|------------------------|
| No FTE                                      | 0             | 0                     | 0                     | 0                      |
| *Mechanic was moved to public works in FY21 |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b>                     | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

|                   |
|-------------------|
| Fleet Maintenance |
|-------------------|

| Account                                      | Account Name                       | FY2023<br>Actual   | FY2024<br>Budget   | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|------------------------------------|--------------------|--------------------|------------------------------|-------------------------------|------------------------------|
| Fleet Maintenance Revenues                   |                                    |                    |                    |                              |                               |                              |
| 100-143-4820-143                             | Fleet Maintenance Sale of Property | -                  | -                  | -                            | -                             | -                            |
| <b>Total Fleet Maintenance Revenues</b>      |                                    | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Fleet Maintenance Expenditures               |                                    |                    |                    |                              |                               |                              |
| 100-143-5380-143                             | Fleet Mtce Uniforms                | -                  | -                  | -                            | -                             | -                            |
| 100-143-5530-143                             | Fleet Mtce Fuels                   | 1,964.70           | 3,150.00           | 1,391.47                     | 1,855.29                      | 2,000.00                     |
| 100-143-5590-143                             | Fleet Maint. General Supplies      | 1,112.36           | 2,100.00           | 226.89                       | 302.52                        | 2,100.00                     |
| 100-143-6390-143                             | Fleet Mtce Minor Equipment         | 1,517.15           | 3,150.00           | 3,196.33                     | 4,261.77                      | 15,200.00                    |
| <b>Total Fleet Maintenance Expenditures</b>  |                                    | <b>\$ 4,594.21</b> | <b>\$ 8,400.00</b> | <b>\$ 4,814.69</b>           | <b>\$ 6,419.59</b>            | <b>\$ 19,300.00</b>          |
| Fleet Maintenance Other Sources              |                                    |                    |                    |                              |                               | -                            |
| <b>Total Fleet Maintenance Other Sources</b> |                                    | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Fleet Maintenance Other Uses                 |                                    |                    |                    |                              |                               | -                            |
| <b>Total Fleet Maintenance Other Uses</b>    |                                    | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                    | (4,594.21)         | (8,400.00)         | (4,814.69)                   | (6,419.59)                    | (19,300.00)                  |

| Fleet Maintenance     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

|                            |                                    | Department Request |                                        |
|----------------------------|------------------------------------|--------------------|----------------------------------------|
|                            |                                    | Amount             | Justification & Supporting Information |
| Fleet Maintenance Revenues |                                    |                    |                                        |
| 100-143-4820-143           | Fleet Maintenance Sale of Property |                    |                                        |
|                            |                                    |                    |                                        |
|                            |                                    | -                  |                                        |

|                                |                               | Amount    | Justification & Supporting Information                                                |
|--------------------------------|-------------------------------|-----------|---------------------------------------------------------------------------------------|
| Fleet Maintenance Expenditures |                               |           |                                                                                       |
| 100-143-5380-143               | Fleet Mtce Uniforms           |           |                                                                                       |
| 100-143-5530-143               | Fleet Mtce Fuels              | 2,000.00  |                                                                                       |
| 100-143-5590-143               | Fleet Maint. General Supplies | 2,100.00  |                                                                                       |
| 100-143-6390-143               | Fleet Mtce Minor Equipment    |           |                                                                                       |
|                                |                               | 15,200.00 | Increase for purchasing tools needed, cooling fan \$4,000, exhaust system fan \$6,200 |
|                                |                               |           |                                                                                       |
|                                |                               | 19,300.00 |                                                                                       |

|                                 |  | Amount | Justification & Supporting Information |
|---------------------------------|--|--------|----------------------------------------|
| Fleet Maintenance Other Sources |  |        |                                        |
|                                 |  |        |                                        |
|                                 |  |        |                                        |

|                              |  | Amount | Justification & Supporting Information |
|------------------------------|--|--------|----------------------------------------|
| Fleet Maintenance Other Uses |  |        |                                        |
|                              |  |        |                                        |
|                              |  |        |                                        |



## Emergency Management

Aaron Houk

Fire Chief

[ahouk@neoshomo.org](mailto:ahouk@neoshomo.org)

The Department of Emergency Management serves to provide the citizens of Neosho with an appropriate response in an emergency situation in order to maintain the public safety and well-being of Neosho and its citizens. The Department of Emergency Management is funded by a 1/2 of 1% Public Safety Tax.

| Revenue              | FY2023           | FY2024<br>Adopted | FY2024<br>Current YTD | FY2025<br>Proposed |
|----------------------|------------------|-------------------|-----------------------|--------------------|
| Category             | Actual           | Budget            | Actuals               | Budget             |
| Taxes                | -                | -                 | -                     | -                  |
| Intergovernmental    | -                | -                 | -                     | -                  |
| Licenses & Permits   | -                | -                 | -                     | -                  |
| Charges for Services | -                | -                 | -                     | -                  |
| Fines & Forfeitures  | -                | -                 | -                     | -                  |
| Miscellaneous        | -                | -                 | -                     | -                  |
| Other Sources        | 18,696.00        | 20,047.00         | 15,039.00             | 20,144.00          |
| <b>Total</b>         | <b>18,696.00</b> | <b>20,047.00</b>  | <b>15,039.00</b>      | <b>20,144.00</b>   |
|                      | \$ -             | \$ -              | \$ -                  | \$ -               |

| Expense                       | FY2023           | FY2024<br>Adopted | FY2024<br>Current YTD | FY2025<br>Proposed |
|-------------------------------|------------------|-------------------|-----------------------|--------------------|
| Category                      | Actual           | Budget            | Actuals               | Budget             |
| Salaries, Benefits, & Support | -                | -                 | -                     | -                  |
| Supplies & Materials          | -                | -                 | -                     | -                  |
| Maintenance & Repair          | -                | -                 | -                     | -                  |
| Contractual Services          | 12,276.00        | 16,821.00         | 13,521.00             | 16,821.00          |
| Utilities                     | 3,075.55         | 3,226.00          | 1,944.25              | 3,323.00           |
| Other Expenses                | -                | -                 | -                     | -                  |
| Capital                       | -                | -                 | -                     | -                  |
| Other Uses                    | -                | -                 | -                     | -                  |
| Debt Service                  | -                | -                 | -                     | -                  |
| <b>Total</b>                  | <b>15,351.55</b> | <b>20,047.00</b>  | <b>15,465.25</b>      | <b>20,144.00</b>   |
|                               | \$ -             | \$ -              | \$ -                  | \$ -               |

Highlights - Variances of 10% (FY2024 Projected/FY2025)

Increases:

Decreases:

|                         | FY2023   | FY2024<br>Adopted | FY2024<br>Current | FY2025<br>Proposed |
|-------------------------|----------|-------------------|-------------------|--------------------|
| Staffing Levels         | Actual   | Budget            | Budget            | Budget             |
| No FTE                  | 0        | 0                 | 0                 | 0                  |
| <b>DEPARTMENT TOTAL</b> | <b>0</b> | <b>0</b>          | <b>0</b>          | <b>0</b>           |

|                      |
|----------------------|
| Emergency Management |
|----------------------|

| Account                                         | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------|-------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Emergency Management Revenues                   |                               |                     |                     |                              |                               |                              |
| <b>Total Emergency Management Revenues</b>      |                               | \$ -                | \$ -                | \$ -                         | \$ -                          | \$ -                         |
| Emergency Management Expenditures               |                               |                     |                     |                              |                               |                              |
| 100-144-5260-144                                | Emergency Mgmt Prof. Services | 12,276.00           | 13,521.00           | 13,521.00                    | 13,521.00                     | 13,521.00                    |
| 100-144-5300-144                                | Emergency Mgmt Ins. & Bonds   | -                   | 3,300.00            | -                            | 2,730.00                      | 3,300.00                     |
| 100-144-5330-144                                | Emergency Mgmt Equip. Mtce    | -                   | -                   | -                            | -                             | -                            |
| 100-144-6300-144                                | Emergency Mgmt Electricity    | 3,075.55            | 3,226.00            | 1,944.25                     | 2,592.33                      | 3,323.00                     |
| <b>Total Emergency Management Expenditures</b>  |                               | <b>\$ 15,351.55</b> | <b>\$ 20,047.00</b> | <b>\$ 15,465.25</b>          | <b>\$ 18,843.33</b>           | <b>\$ 20,144.00</b>          |
| Emergency Management Other Sources              |                               |                     |                     |                              |                               |                              |
| 100-000-3305-144                                | Trns from Public Safety Fund  | 18,696.00           | 20,047.00           | 15,039.00                    | 20,047.00                     | 20,144.00                    |
| <b>Total Emergency Management Other Sources</b> |                               | <b>\$ 18,696.00</b> | <b>\$ 20,047.00</b> | <b>\$ 15,039.00</b>          | <b>\$ 20,047.00</b>           | <b>\$ 20,144.00</b>          |
| Emergency Management Other Uses                 |                               |                     |                     |                              |                               |                              |
| <b>Total Emergency Management Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES    |                               | 3,344.45            | -                   | (426.25)                     | 1,203.67                      | -                            |

| Emergency Management  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 9.20%    |

Payroll Detail

Emergency Management Revenues

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
|                    |                                        |
| -                  |                                        |

Emergency Management Expenditures

|                  |                               | Amount    | Justification & Supporting Information                    |
|------------------|-------------------------------|-----------|-----------------------------------------------------------|
| 100-144-5260-144 | Emergency Mgmt Prof. Services | 13,521.00 | Increased / Blue Valley Storm Siren Maintenance Agreement |
| 100-144-5300-144 | Emergency Mgmt Ins. & Bonds   | 3,300.00  |                                                           |
| 100-144-5330-144 | Emergency Mgmt Equip. Mtce    |           |                                                           |
| 100-144-6300-144 | Emergency Mgmt Electricity    | 3,323.00  |                                                           |
|                  |                               | 20,144.00 |                                                           |

Emergency Management Other Sources

|                  |                              | Amount    | Justification & Supporting Information |
|------------------|------------------------------|-----------|----------------------------------------|
| 100-000-3305-144 | Trns from Public Safety Fund | 20,144.00 |                                        |

Emergency Management Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|--------|----------------------------------------|

## Human Resources

Krysti Muhic  
Human Resource Director  
[Kmuhic@neoshomo.org](mailto:Kmuhic@neoshomo.org)

The HR office handles the administration of all HR functions including recruitment, testing, selection, compensation & benefits, workers' compensation as well as employee counseling & employee relations. The Director supervises front desk personnel and associated duties to ensure citizens issues are handled appropriately. The Director answers incoming phone calls as well as assisting citizens visiting city hall. The Director inputs payroll changes and additions into Springbrook payroll system and also administers any online banking needs for the finance department.

| Revenue Category     | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------|-----------------------|----------------------------|------------------------|
| Taxes                | -             | -                     | -                          | -                      |
| Intergovernmental    | -             | -                     | -                          | -                      |
| Licenses & Permits   | -             | -                     | -                          | -                      |
| Charges for Services | -             | -                     | -                          | -                      |
| Fines & Forfeitures  | -             | -                     | -                          | -                      |
| Miscellaneous        | -             | -                     | -                          | -                      |
| Other Sources        | -             | -                     | -                          | -                      |
| <b>Total</b>         | -             | -                     | -                          | -                      |
|                      | \$ -          | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 78,580.01        | 84,283.00             | 61,692.43                  | 87,777.00              |
| Supplies & Materials          | 1,044.40         | 5,800.00              | 2,101.95                   | 4,747.00               |
| Maintenance & Repair          | -                | -                     | -                          | -                      |
| Contractual Services          | 3,782.25         | 3,935.00              | 3,157.21                   | 3,400.00               |
| Utilities                     | -                | -                     | -                          | -                      |
| Other Expenses                | 637.21           | 6,400.00              | 917.86                     | 1,776.00               |
| Capital                       | -                | -                     | -                          | -                      |
| Other Uses                    | -                | -                     | -                          | -                      |
| Debt Service                  | -                | -                     | -                          | -                      |
| <b>Total</b>                  | <b>84,043.87</b> | <b>100,418.00</b>     | <b>67,869.45</b>           | <b>97,700.00</b>       |
|                               | \$ -             | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Member/Train/ Travel** - Increase for additional conference

#### Decreases:

**Professional Services**- Decrease for current needs

**General Supplies**- Decrease for needs

|                          | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|--------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels          |               |                       |                       |                        |
| Human Resource Director  | 1             | 1                     | 1                     | 1                      |
| Administrative Assistant | 0             | 0                     | 0                     | 0                      |
| <b>DEPARTMENT TOTAL</b>  | <b>1</b>      | <b>1</b>              | <b>1</b>              | <b>1</b>               |

|                 |
|-----------------|
| Human Resources |
|-----------------|

| Account                                      | Account Name                   | FY2023<br>Actual    | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|--------------------------------|---------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Human Resources Revenues                     |                                |                     |                      |                              |                               |                              |
| <b>Total Human Resources Revenues</b>        |                                | \$ -                | \$ -                 | \$ -                         | \$ -                          | \$ -                         |
| Human Resources Expenditures                 |                                |                     |                      |                              |                               |                              |
| 100-145-5010-145                             | Human Resources Salaries       | 57,340.79           | 62,368.00            | 45,601.07                    | 60,801.43                     | 64,239.00                    |
| 100-145-5170-145                             | Human Resources Social Secur.  | 3,938.47            | 4,542.00             | 3,162.71                     | 4,216.95                      | 4,685.00                     |
| 100-145-5180-145                             | Human Resources Retirement     | 3,023.06            | 2,969.00             | 2,280.07                     | 3,040.09                      | 3,675.00                     |
| 100-145-5190-145                             | Human Resources Health Ins.    | 7,898.70            | 7,553.00             | 6,049.62                     | 8,066.16                      | 7,795.00                     |
| 100-145-5210-145                             | Human Resources Workers Comp.  | 1,580.17            | 2,601.00             | 2,600.48                     | 3,467.31                      | 2,683.00                     |
| 100-145-5260-145                             | Human Resources Prof. Services | 3,782.25            | 3,935.00             | 3,157.21                     | 4,209.61                      | 3,400.00                     |
| 100-145-5360-145                             | Human Resources Mem/Train/Trvl | 4,798.82            | 4,250.00             | 1,998.48                     | 2,664.64                      | 4,700.00                     |
| 100-145-5590-145                             | Human Resources GenSupplies    | 1,044.40            | 5,800.00             | 2,101.95                     | 2,802.60                      | 4,747.00                     |
| 100-145-5700-145                             | HR Computer/Software           | 637.21              | 6,400.00             | 917.86                       | 1,223.81                      | 1,776.00                     |
| <b>Total Human Resources Expenditures</b>    |                                | <b>\$ 84,043.87</b> | <b>\$ 100,418.00</b> | <b>\$ 67,869.45</b>          | <b>\$ 90,492.60</b>           | <b>\$ 97,700.00</b>          |
| Human Resources Other Sources                |                                |                     |                      |                              |                               |                              |
| <b>Total Human Resources Other Sources</b>   |                                | \$ -                | \$ -                 | \$ -                         | \$ -                          | \$ -                         |
| Human Resources Other Uses                   |                                |                     |                      |                              |                               |                              |
| <b>Total Human Resources Other Uses</b>      |                                | \$ -                | \$ -                 | \$ -                         | \$ -                          | \$ -                         |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                | (84,043.87)         | (100,418.00)         | (67,869.45)                  | (90,492.60)                   | (97,700.00)                  |

| Human Resources       |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Muhic, Krysti        | 1    | 62,367.76 | \$ 61,238.79       | \$ 3,000.00           |                           | 4,685.00           | 3,675.00   | 7,878.72  | 2,683.00     | \$ 83,160.52               |
|                      | 1.00 | 62,367.76 | 61,238.79          | 3,000.00              | -                         | 4,685.00           | 3,675.00   | 7,878.72  | 2,683.00     | \$ 83,160.52               |
| Overtime             |      |           |                    |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      |           |                    |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 62,367.76 | 61,238.79          |                       |                           |                    |            |           |              |                            |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
|                    |                                        |

| Human Resources Expenditures |                                | Amount    | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|--------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-145-5010-145             | Human Resources Salaries       | 64,239.00 |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5170-145             | Human Resources Social Secur.  | 4,685.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5180-145             | Human Resources Retirement     | 3,675.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5190-145             | Human Resources Health Ins.    | 7,795.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5210-145             | Human Resources Workers Comp.  | 2,683.00  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| 100-145-5260-145             | Human Resources Prof. Services | 3,400.00  | CLIAwaived.com iScreen OFD 5-Panel Saliva Drug Test Kit (25/kit)- \$1000 (estimating tax and shipping)<br><a href="https://www.cliawaived.com/iscreen-ofd-5-panel-saliva-drug-test-kit.html">https://www.cliawaived.com/iscreen-ofd-5-panel-saliva-drug-test-kit.html</a> , Background checks \$1500, Pop125-\$200, Driver's/CDL check \$400, Laserfiche split with finance and city clerk \$300 |
| 100-145-5360-145             | Human Resources Mem/Train/Trvl | 4,700.00  | MIRMA Annual- \$1200; SHRM Membership Renewal- \$300; SHRM/HRCI/Misc. Training- \$1000; LAGERS- \$500; TSHRA Chapter fees \$200, MML September Conference \$1500                                                                                                                                                                                                                                 |
| 100-145-5590-145             | Human Resources GenSupplies    | 4,747.00  | Magicards, 3 ring binders, general supplies, ink cartridge, etc. \$1000; Employee Service/Appreciation End of Year Awards for 2024 (\$1500-2000) Sho-Me Expo (Booth, outlet, theme decor) \$700, Marketing Materials and misc. items for expos, job fairs, etc. - \$1000, Shirts 47                                                                                                              |
| 100-145-5700-145             | HR Computer/Software           | 1,776.00  | Encrypted email renewal- \$200 (16/mo through Stronghold), Adobe \$195.59, Firewall \$210, Office 365 \$237.53, Cyber Software \$133.33; Stronghold Microsoft Office Contract \$535, server license upgrade \$196.90                                                                                                                                                                             |
|                              |                                | 97,700.00 |                                                                                                                                                                                                                                                                                                                                                                                                  |

| Human Resources Other Sources | Amount | Justification & Supporting Information |
|-------------------------------|--------|----------------------------------------|
|                               |        |                                        |

| Human Resources Other Uses | Amount | Justification & Supporting Information |
|----------------------------|--------|----------------------------------------|
|                            |        |                                        |
|                            |        |                                        |

## Airport

Richard Leavens  
Development Services Director  
[rleavens@neoshomo.org](mailto:rleavens@neoshomo.org)

The Neosho Hugh Robinson Memorial Airport is located 3 miles south of town off of Highway 59. Its location allows are visitors easy access to our restaurants, hotels, and the historic downtown district. We offer a courtesy car for pilots and passengers who need to go to town for brief periods.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | 270,021.76        | 572,946.00            | 484,947.00                 | 680,000.00             |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | 241,860.68        | 247,320.00            | 134,519.68                 | 174,320.00             |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | (1,984.68)        | -                     | 2.00                       | -                      |
| Other Sources        | 5,660.04          | 5,660.00              | 4,245.03                   | 5,660.00               |
| <b>Total</b>         | <b>515,557.80</b> | <b>825,926.00</b>     | <b>623,713.71</b>          | <b>859,980.00</b>      |
|                      | \$ 0.00           | \$ -                  | \$ 0.00                    | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 77,625.61         | 89,023.00             | 64,891.47                  | 91,079.00              |
| Supplies & Materials          | 2,810.32          | 4,935.00              | 1,524.70                   | 3,235.00               |
| Maintenance & Repair          | 20,665.75         | 14,660.00             | 36,748.90                  | 12,500.00              |
| Contractual Services          | 21,674.09         | 29,877.00             | 26,272.29                  | 28,645.00              |
| Utilities                     | 20,916.10         | 19,775.00             | 12,749.37                  | 18,722.00              |
| Other Expenses                | 159,905.68        | 138,165.00            | 72,810.79                  | 138,500.00             |
| Capital                       | 50,136.19         | 727,538.00            | 481,713.09                 | 754,000.00             |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>353,733.74</b> | <b>1,023,973.00</b>   | <b>696,710.61</b>          | <b>1,046,681.00</b>    |
|                               | \$ (0.00)         | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Grant Revenue** - Increase for current project

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

**Computer Software**- Increase for Server License Upgrade

#### Decreases:

**Facility Maintenance** - Decrease in current need

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| Airport Manager         |               | 1                     | 1                     | 1                      |
| <b>DEPARTMENT TOTAL</b> |               | <b>1</b>              | <b>1</b>              | <b>1</b>               |

|         |
|---------|
| Airport |
|---------|

| Account                                      | Account Name                  | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Airport Revenues                             |                               |                      |                      |                              |                               |                              |
| 100-160-4200-160                             | Grant Revenue                 | 270,021.76           | 572,946.00           | 484,947.00                   | 646,596.00                    | 680,000.00                   |
| 100-160-4201-160                             | Grant Revenue -CARES          | -                    | -                    | -                            | -                             | -                            |
| 100-160-4400-160                             | Land Lease at Airport         | 18,567.04            | 22,000.00            | 16,471.54                    | 21,962.05                     | 22,000.00                    |
| 100-160-4410-160                             | Airport Land Lease - City     | 9,700.08             | 9,700.00             | 7,275.06                     | 9,700.08                      | 9,700.00                     |
| 100-160-4500-160                             | Airport Hangar Rentals        | 58,204.61            | 60,120.00            | 40,109.98                    | 53,479.97                     | 60,120.00                    |
| 100-160-4540-160                             | Sale of Jet Fuel              | 39,122.77            | 70,000.00            | 19,248.94                    | 25,665.25                     | 22,000.00                    |
| 100-160-4550-160                             | Sale of Aviation Gas          | 115,663.99           | 85,000.00            | 50,963.95                    | 67,951.93                     | 60,000.00                    |
| 100-160-4560-160                             | Sale of Pilot Supplies        | 602.19               | 500.00               | 450.21                       | 600.28                        | 500.00                       |
| 100-160-4800-160                             | Miscellaneous Income          | 15.32                | -                    | 2.00                         | 2.67                          | -                            |
| 100-160-4820-160                             | Airport Sale of Property      | (2,000.00)           | -                    | -                            | -                             | -                            |
| <b>Total Airport Revenues</b>                |                               | <b>\$ 509,897.76</b> | <b>\$ 820,266.00</b> | <b>\$ 619,468.68</b>         | <b>\$ 825,958.24</b>          | <b>\$ 854,320.00</b>         |
| Airport Expenditures                         |                               |                      |                      |                              |                               |                              |
| 100-160-5010-160                             | Airport Salaries              | 38,897.92            | 39,772.00            | 30,517.83                    | 40,690.44                     | 40,965.00                    |
| 100-160-5020-160                             | Airport Overtime              | 146.19               | 900.00               | 236.62                       | 315.49                        | 900.00                       |
| 100-160-5030-160                             | Airport Part Time             | 22,110.69            | 28,704.00            | 19,919.25                    | 26,559.00                     | 28,704.00                    |
| 100-160-5070-160                             | Availability Allowance        | 360.00               | 360.00               | 270.00                       | 360.00                        | 360.00                       |
| 100-160-5170-160                             | Airport Social Security       | 4,705.97             | 5,308.00             | 3,897.14                     | 5,196.19                      | 5,399.00                     |
| 100-160-5180-160                             | Airport Retirement            | 1,991.84             | 2,034.00             | 1,552.39                     | 2,069.85                      | 2,512.00                     |
| 100-160-5190-160                             | Airport Health Insurance      | 7,199.24             | 7,553.00             | 5,350.81                     | 7,134.41                      | 7,795.00                     |
| 100-160-5210-160                             | Airport Workers Compensation  | 2,011.28             | 3,039.00             | 3,037.46                     | 4,049.95                      | 3,091.00                     |
| 100-160-5260-160                             | Airport Professional Services | 8,550.79             | 10,410.00            | 8,069.20                     | 10,758.93                     | 9,960.00                     |
| 100-160-5300-160                             | Airport Insurance & Bonds     | 13,123.30            | 19,467.00            | 18,203.09                    | 24,270.79                     | 18,685.00                    |
| 100-160-5320-160                             | Airport Facility Maintenance  | 16,797.49            | 5,250.00             | 16,026.01                    | 21,368.01                     | 7,500.00                     |
| 100-160-5330-160                             | Airport Equipment Maintenance | 3,868.26             | 9,410.00             | 20,722.89                    | 27,630.52                     | 5,000.00                     |
| 100-160-5360-160                             | Membership/Training/Travel    | 122.50               | 525.00               | -                            | -                             | 525.00                       |
| 100-160-5380-160                             | Airport Uniforms              | 79.98                | 828.00               | 109.97                       | 146.63                        | 828.00                       |
| 100-160-5460-160                             | Cost of Av Gas Sold           | 117,441.45           | 74,550.00            | 52,084.19                    | 69,445.59                     | 74,550.00                    |
| 100-160-5470-160                             | Cost of Jet Fuel Sold         | 40,424.58            | 60,900.00            | 19,257.78                    | 25,677.04                     | 60,900.00                    |
| 100-160-5480-160                             | Cost of Pilot Supplies        | 639.34               | 735.00               | 549.86                       | 733.15                        | 735.00                       |
| 100-160-5530-160                             | Airport Fuels/Lubricants      | 1,578.13             | 2,100.00             | 1,138.84                     | 1,518.45                      | 2,100.00                     |
| 100-160-5590-160                             | Airport General Supplies      | 2,170.98             | 4,200.00             | 974.84                       | 1,299.79                      | 2,500.00                     |
| 100-160-5700-160                             | Airport Computer/Software     | 461.52               | 615.00               | 329.98                       | 439.97                        | 950.00                       |
| 100-160-6300-160                             | Airport Electricity           | 15,650.51            | 14,231.00            | 9,284.10                     | 12,378.80                     | 15,651.00                    |
| 100-160-6350-160                             | Airport Phones                | 5,265.59             | 5,544.00             | 3,465.27                     | 4,620.36                      | 3,071.00                     |
| 100-160-5790-160                             | Airport Capital Improvement   | -                    | -                    | -                            | -                             | -                            |
| <b>Total Airport Expenditures</b>            |                               | <b>\$ 303,597.55</b> | <b>\$ 296,435.00</b> | <b>\$ 214,997.52</b>         | <b>\$ 286,663.36</b>          | <b>\$ 292,681.00</b>         |
| Airport Other Sources                        |                               |                      |                      |                              |                               |                              |
| 100-000-3316-000                             | Transfer fm Street >Land      | 5,660.04             | 5,660.00             | 4,245.03                     | 5,660.00                      | 5,660.00                     |
| <b>Total Airport Other Sources</b>           |                               | <b>\$ 5,660.04</b>   | <b>\$ 5,660.00</b>   | <b>\$ 4,245.03</b>           | <b>\$ 5,660.00</b>            | <b>\$ 5,660.00</b>           |
| Airport Other Uses                           |                               |                      |                      |                              |                               |                              |
| 100-000-3285-160                             | Trns to Capital Improvement   | 50,136.19            | 727,538.00           | 481,713.09                   | 642,284.12                    | 754,000.00                   |
| <b>Total Airport Other Uses</b>              |                               | <b>\$ 50,136.19</b>  | <b>\$ 727,538.00</b> | <b>\$ 481,713.09</b>         | <b>\$ 642,284.12</b>          | <b>\$ 754,000.00</b>         |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                               | 161,824.06           | (198,047.00)         | (72,996.90)                  | (97,329.24)                   | (186,701.00)                 |



| Airport               |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Graves, Charles      | 1    | 39,771.42 | \$ 40,964.56       |                       | 360                       | 3,134.00           | 2,458.00   | 7,795.00  | 1,795.00     | \$ 56,506.56               |
|                      | 1.00 | 39,771.42 | 40,964.56          | -                     | 360.00                    | 3,134.00           | 2,458.00   | 7,795.00  | 1,795.00     | \$ 56,506.56               |
| Overtime             |      | 900.00    | 900.00             |                       | 46                        | 2392               | 28704      |           |              |                            |
| Part Time & Seasonal |      | 28,704.00 | 28,704.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 69,375.42 | 70,568.56          |                       |                           |                    |            |           |              |                            |

|                  |                           | Department Request |                                                                                 |
|------------------|---------------------------|--------------------|---------------------------------------------------------------------------------|
|                  |                           | Amount             | Justification & Supporting Information                                          |
| Airport Revenues | Grant Revenue             | 680,000.00         | NPE 2019- 2024- MODOT grant revenue annual amount received based on expenditure |
| 100-160-4200-160 | Land Lease at Airport     | 22,000.00          |                                                                                 |
| 100-160-4410-160 | Airport Land Lease - City | 9,700.00           |                                                                                 |
| 100-160-4500-160 | Airport Hangar Rentals    | 60,120.00          |                                                                                 |
| 100-160-4540-160 | Sale of Jet Fuel          | 22,000.00          |                                                                                 |
| 100-160-4550-160 | Sale of Aviation Gas      | 60,000.00          |                                                                                 |
| 100-160-4560-160 | Sale of Pilot Supplies    | 500.00             | 5 Year Historical                                                               |
| 100-160-4820-160 | Airport Sale of Property  |                    | Timber Sales                                                                    |
|                  |                           | 854,320.00         |                                                                                 |

|                      |                               | Amount     | Justification & Supporting Information                                                                                                                                                                                                                          |
|----------------------|-------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Airport Expenditures | Airport Salaries              | 40,965.00  |                                                                                                                                                                                                                                                                 |
| 100-160-5010-160     | Airport Overtime              | 900.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5020-160     | Airport Part Time             | 28,704.00  | John works 20 , Roger 26 hours                                                                                                                                                                                                                                  |
| 100-160-5030-160     | Availability Allowance        | 360.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5070-160     | Airport Social Security       | 5,399.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5170-160     | Airport Retirement            | 2,512.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5180-160     | Airport Health Insurance      | 7,795.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5190-160     | Airport Workers Compensation  | 3,091.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5210-160     | Airport Professional Services | 9,960.00   | Pest Control \$500, Precision Line Test \$500, Fire Inspection \$350, DNR permit \$2800, Stormwater Testing \$1200, QT Annual Agreement \$1425, Stronghold \$1300, AED \$50, Floor wax \$1,000, Alarm Monitor \$335, Portable fire suppression inspection \$500 |
| 100-160-5260-160     | Airport Insurance & Bonds     | 18,685.00  | Property Ins                                                                                                                                                                                                                                                    |
| 100-160-5300-160     | Airport Facility Maintenance  | 7,500.00   | Seal Parking lot \$2,500                                                                                                                                                                                                                                        |
| 100-160-5320-160     | Airport Equipment Maintenance | 5,000.00   | annual maintenance on fuel truck and tanks \$1200                                                                                                                                                                                                               |
| 100-160-5330-160     | Membership/Training/Travel    | 525.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5360-160     | Airport Uniforms              | 828.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5380-160     | Cost of Av Gas Sold           | 74,550.00  |                                                                                                                                                                                                                                                                 |
| 100-160-5460-160     | Cost of Jet Fuel Sold         | 60,900.00  |                                                                                                                                                                                                                                                                 |
| 100-160-5470-160     | Cost of Pilot Supplies        | 735.00     |                                                                                                                                                                                                                                                                 |
| 100-160-5480-160     | Airport Fuels/Lubricants      | 2,100.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5530-160     | Airport General Supplies      | 2,500.00   |                                                                                                                                                                                                                                                                 |
| 100-160-5590-160     | Airport Computer/Software     | 950.00     | Firewall \$210, Office 365 \$237.53, Cyber Software \$133.33, Wifi booster \$270, server license upgrade \$98.45                                                                                                                                                |
| 100-160-5700-160     | Airport Electricity           | 15,651.00  |                                                                                                                                                                                                                                                                 |
| 100-160-6300-160     | Airport Phones                | 3,071.00   |                                                                                                                                                                                                                                                                 |
|                      |                               | 292,681.00 |                                                                                                                                                                                                                                                                 |

Airport Other Sources

100-000-3316-000      Transfer fm Street >Land

| Amount   | Justification & Supporting Information |
|----------|----------------------------------------|
| 5,660.00 |                                        |

Airport Other Uses

100-000-3285-160      Trns to Capital Improvement

| Amount     | Justification & Supporting Information                                                  |
|------------|-----------------------------------------------------------------------------------------|
| 754,000.00 | T-Hanger - \$680,000 with City funds of \$63,000, Slurry Seal<br>Terry Johnson \$11,000 |

## Public Safety Tax

David Kennedy  
City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

On June 2, 2020, the voters of the City of Neosho approved an additional 1/2% city general sales tax under RSMo 94.510. The tax will go towards increasing salaries for our emergency services personnel to hire and retain qualified employees and for Capital Purchases for Police and Fire. Emergency Management services capital projects will also be funded through this public safety tax.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 1,665,997.53        | 1,546,225.00          | 1,216,487.30               | 1,546,225.00           |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 5,874.35            | 1,000.00              | 41,355.20                  | 55,000.00              |
| Other Sources        | -                   | -                     | -                          | -                      |
| <b>Total</b>         | <b>1,671,871.88</b> | <b>1,547,225.00</b>   | <b>1,257,842.50</b>        | <b>1,601,225.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                   | -                     | -                          | -                      |
| Supplies & Materials          | -                   | -                     | -                          | -                      |
| Maintenance & Repair          | -                   | -                     | -                          | -                      |
| Contractual Services          | -                   | -                     | -                          | -                      |
| Utilities                     | -                   | -                     | -                          | -                      |
| Other Expenses                | -                   | -                     | -                          | -                      |
| Capital                       | -                   | -                     | -                          | -                      |
| Other Uses                    | 1,183,872.10        | 1,316,206.00          | 1,362,168.00               | 2,144,454.00           |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,183,872.10</b> | <b>1,316,206.00</b>   | <b>1,362,168.00</b>        | <b>2,144,454.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

Architectural Fees increased transfer to Police

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No FTE                  |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

|                   |
|-------------------|
| Public Safety Tax |
|-------------------|

| Account                                      | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Public Safety Tax Revenues                   |                               |                        |                        |                              |                               |                              |
| 100-199-4031-199                             | Public Safety Tax             | 1,665,997.53           | 1,546,225.00           | 1,216,487.30                 | 1,621,983.07                  | 1,546,225.00                 |
| 100-199-4700-199                             | Public Safety Interest Earned | 5,874.35               | 1,000.00               | 41,355.20                    | 55,140.27                     | 55,000.00                    |
| <b>Total Public Safety Tax Revenues</b>      |                               | <b>\$ 1,671,871.88</b> | <b>\$ 1,547,225.00</b> | <b>\$ 1,257,842.50</b>       | <b>\$ 1,677,123.33</b>        | <b>\$ 1,601,225.00</b>       |
| Public Safety Tax Expenditures               |                               |                        |                        |                              |                               |                              |
| <b>Total Public Safety Tax Expenditures</b>  |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Public Safety Tax Other Sources              |                               |                        |                        |                              |                               |                              |
| <b>Total Public Safety Tax Other Sources</b> |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Public Safety Tax Other Uses                 |                               |                        |                        |                              |                               |                              |
| 100-000-3205-000                             | Transfer to Fire Dept         | 847,488.10             | 753,748.00             | 565,317.00                   | 753,748.00                    | 866,763.00                   |
| 100-000-3205-120                             | Trns to Police Department     | 317,688.00             | 522,411.00             | 766,809.00                   | 522,411.00                    | 1,237,547.00                 |
| 100-000-3205-144                             | Trns to Emergency Mgmt        | 18,696.00              | 20,047.00              | 15,039.00                    | 20,047.00                     | 20,144.00                    |
| 100-000-3205-110                             | Trns to General               | -                      | 20,000.00              | 15,003.00                    | 20,000.00                     | 20,000.00                    |
| <b>Total Public Safety Tax Other Uses</b>    |                               | <b>\$ 1,183,872.10</b> | <b>\$ 1,316,206.00</b> | <b>\$ 1,362,168.00</b>       | <b>\$ 1,316,206.00</b>        | <b>\$ 2,144,454.00</b>       |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                               | 487,999.78             | 231,019.00             | (104,325.50)                 | 360,917.33                    | (543,229.00)                 |

| Public Safety Tax     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | -        |
| Retirement Rate       | -        |

Payroll Detail

| FTE                                   | #     | FY2020       | FY2025 Budgeted | Increase   |      |
|---------------------------------------|-------|--------------|-----------------|------------|------|
| Police Department Salaries & Benefits | 25.00 | 1,745,554.00 | \$ 1,882,702.00 | 137,148.00 | 0.08 |
| Fire Department Salaries & Benefits   | 27.00 | 1,566,920.00 | \$ 1,948,698.00 | 381,778.00 | 0.24 |
|                                       | 52.00 | 3,312,474.00 | 3,831,400.00    | 518,926.00 |      |

|                                 |                               | Department Request |                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
| Public Safety Tax Revenues      |                               | 1,546,225.00       |                                                                                                                                                                                                                                                                                                                                                         |
| 100-199-4031-199                | Public Safety Tax             | 55,000.00          |                                                                                                                                                                                                                                                                                                                                                         |
| 100-199-4700-199                | Public Safety Interest Earned |                    |                                                                                                                                                                                                                                                                                                                                                         |
|                                 |                               | 1,601,225.00       |                                                                                                                                                                                                                                                                                                                                                         |
| Public Safety Tax Expenditures  |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
|                                 |                               | -                  |                                                                                                                                                                                                                                                                                                                                                         |
| Public Safety Tax Other Sources |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
| Public Safety Tax Other Uses    |                               | Amount             | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                  |
| 100-000-3205-000                | Transfer to Fire Dept         | 866,763.00         | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000                                                                                                                                                                                                                      |
| 100-000-3205-120                | Trns to Police Department     | 1,237,547.00       | Patrol Cars 2 \$80,000 would allow \$5000 trade in each \$3000 WolfCom redaction advanced software, needed to redact certain items from body cam video, (2) Fujitsu Fi-8170 Document scanners \$1300 to replace both clerk's scanners, HP Enterprise printer for report room \$1099. Architect \$1,000,000, Demo and Testing 301 Wood Property \$15,000 |
| 100-000-3205-144                | Trns to Emergency Mgmt        | 20,144.00          |                                                                                                                                                                                                                                                                                                                                                         |
| 100-000-3205-110                | Trns to General               | 20,000.00          |                                                                                                                                                                                                                                                                                                                                                         |
|                                 |                               |                    |                                                                                                                                                                                                                                                                                                                                                         |

## IOOF Cemetery

Cheyenne Wright

City Clerk

[Cwright@neoshomo.org](mailto:Cwright@neoshomo.org)

The Neosho IOOF Cemetery was developed as a community cemetery in 1855. In recent years, the cemetery had become difficult to maintain by the Neosho IOOF Board due to financial and employment difficulties. The City of Neosho accepted the IOOF Cemetery on November 5th, 2019 per Missouri State Legislative actions, ultimately stating local political subdivisions must assure the continued presence, care, and upkeep of its cemeteries

| Revenue Category     | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                | -                     | -                          | -                      |
| Intergovernmental    | -                | -                     | -                          | -                      |
| Licenses & Permits   | -                | -                     | -                          | -                      |
| Charges for Services | 40,000.00        | 48,000.00             | 27,600.00                  | 32,000.00              |
| Fines & Forfeitures  | -                | -                     | -                          | -                      |
| Miscellaneous        | 4,500.00         | 3,500.00              | 3,483.00                   | 3,500.00               |
| Other Sources        | -                | -                     | -                          | -                      |
| <b>Total</b>         | <b>44,500.00</b> | <b>51,500.00</b>      | <b>31,083.00</b>           | <b>35,500.00</b>       |
|                      | \$ -             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 15,115.52         | 13,214.00             | 10,413.98                  | 13,014.00              |
| Supplies & Materials          | -                 | 725.00                | 215.47                     | 925.00                 |
| Maintenance & Repair          | 4,558.06          | 16,376.00             | 476.71                     | 11,576.00              |
| Contractual Services          | 105,360.01        | 132,052.00            | 93,974.12                  | 134,226.00             |
| Utilities                     | 502.17            | 571.00                | 328.47                     | 571.00                 |
| Other Expenses                | -                 | 420.00                | -                          | 420.00                 |
| Capital                       | 69,899.28         | 91,107.00             | 41,400.30                  | 39,000.00              |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>195,435.04</b> | <b>254,465.00</b>     | <b>146,809.05</b>          | <b>199,732.00</b>      |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

#### Decreases:

**Capital** - Decrease as a result of need

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| Cemetery Manager        | 0.2           | 0.16                  | 0.16                  | 0.16                   |
| <b>DEPARTMENT TOTAL</b> | <b>0.2</b>    | <b>0.16</b>           | <b>0.16</b>           | <b>0.16</b>            |

|               |
|---------------|
| IOOF Cemetery |
|---------------|

| Account                                      | Account Name                    | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|---------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| IOOF Cemetery Revenues                       |                                 |                      |                      |                              |                               |                              |
| 100-204-4420-204                             | Plot Sales                      | 16,900.00            | 20,000.00            | 7,150.00                     | 9,533.33                      | 9,000.00                     |
| 100-204-4524-204                             | Burial Fees                     | 23,100.00            | 28,000.00            | 20,450.00                    | 27,266.67                     | 23,000.00                    |
| 100-204-4700-204                             | Interest Earned                 | -                    | -                    | -                            | -                             | -                            |
| 100-204-4800-204                             | Cemetery Miscellaneous Revenue  | 482.00               | -                    | 758.00                       | 758.00                        | -                            |
| 100-204-4990-204                             | Cemetery Donations              | 4,018.00             | 3,500.00             | 2,725.00                     | 3,633.33                      | 3,500.00                     |
| <b>Total IOOF Cemetery Revenues</b>          |                                 | <b>\$ 44,500.00</b>  | <b>\$ 51,500.00</b>  | <b>\$ 31,083.00</b>          | <b>\$ 41,191.33</b>           | <b>\$ 35,500.00</b>          |
| IOOF Cemetery Expenditures                   |                                 |                      |                      |                              |                               |                              |
| 100-204-5010-204                             | IOOF Salaries                   | 12,077.27            | 10,000.00            | 8,011.29                     | 10,681.72                     | 10,000.00                    |
| 100-204-5170-204                             | IOOF Social Security            | 853.21               | 765.00               | 558.23                       | 744.31                        | 765.00                       |
| 100-204-5180-204                             | IOOF Retirement                 | 637.01               | 500.00               | 400.53                       | 534.04                        | 600.00                       |
| 100-204-5190-204                             | IOOF Health Insurance           | 1,548.03             | 1,511.00             | 1,005.93                     | 1,341.24                      | 1,211.00                     |
| 100-204-5210-204                             | IOOF Workers Compensation       | -                    | 438.00               | 438.00                       | 584.00                        | 438.00                       |
| 100-204-5260-204                             | I.O.O.F. Professional Services  | 88,380.45            | 110,035.00           | 77,102.20                    | 102,802.93                    | 111,402.00                   |
| 100-204-5262-204                             | I.O.O.F. Burial Costs           | 16,270.00            | 21,000.00            | 15,880.00                    | 21,173.33                     | 21,630.00                    |
| 100-204-5300-204                             | Cemetery Insurance & Bonds      | 709.56               | 1,017.00             | 991.92                       | 900.00                        | 1,194.00                     |
| 100-204-5320-204                             | Cemetery Facility Maintenance   | 94.19                | 4,526.00             | (8.64)                       | (11.52)                       | 4,526.00                     |
| 100-204-5325-204                             | Grounds Maintenance             | 2,496.16             | 10,600.00            | 485.35                       | 647.13                        | 5,800.00                     |
| 100-204-5330-204                             | Cemetery Equipment Maintenance  | 1,967.71             | 1,250.00             | -                            | -                             | 1,250.00                     |
| 100-204-5530-204                             | Cemetery Fuels/Lubricants       | -                    | 420.00               | -                            | -                             | 420.00                       |
| 100-204-5590-204                             | General Supplies                | -                    | 725.00               | 215.47                       | 287.29                        | 925.00                       |
| 100-204-6300-204                             | I.O.O.F. Electricity Costs      | 502.17               | 571.00               | 328.47                       | 437.96                        | 571.00                       |
| <b>Total IOOF Cemetery Expenditures</b>      |                                 | <b>\$ 125,535.76</b> | <b>\$ 163,358.00</b> | <b>\$ 105,408.75</b>         | <b>\$ 140,122.44</b>          | <b>\$ 160,732.00</b>         |
| IOOF Cemetery Other Sources                  |                                 |                      |                      |                              |                               |                              |
| <b>Total IOOF Cemetery Other Sources</b>     |                                 | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| IOOF Cemetery Other Uses                     |                                 |                      |                      |                              |                               |                              |
| 100-000-3285-204                             | Transfer to Capital Improvement | 69,899.28            | 91,107.00            | 41,400.30                    | 16,953.40                     | 39,000.00                    |
| <b>Total IOOF Cemetery Other Uses</b>        |                                 | <b>\$ 69,899.28</b>  | <b>\$ 91,107.00</b>  | <b>\$ 41,400.30</b>          | <b>\$ 16,953.40</b>           | <b>\$ 39,000.00</b>          |
| EXCESS (SHORTFALL) OF REVENUES OVER EXPENSES |                                 | (150,935.04)         | (202,965.00)         | (115,726.05)                 | (115,884.51)                  | (164,232.00)                 |
| Restricted Fund Balance                      |                                 |                      |                      |                              |                               |                              |
| Trust                                        |                                 | 154,680.59           | 154,680.59           | 161,642.90                   | 161,642.90                    | 161,642.90                   |

| I.O.O.F. Cemetery     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE              | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Wright, Cheyenne | 16%  | 10,000.00 | \$ 10,000.00       |                       |                           | 765.00             | 600.00     | 1,211.00  | 438.00       | \$ 13,014.00               |
|                  | 0.16 | 10,000.00 | 10,000.00          | -                     | -                         | 765.00             | 600.00     | 1,211.00  | 438.00       | \$ 13,014.00               |

|                      |           |           |
|----------------------|-----------|-----------|
| Overtime             |           |           |
| Part Time & Seasonal |           |           |
| Total Salaries       | 10,000.00 | 10,000.00 |

| Department Request                              |           |                                        |
|-------------------------------------------------|-----------|----------------------------------------|
| I.O.O.F. Cemetery Revenues                      | Amount    | Justification & Supporting Information |
| 100-204-4420-204 Plot Sales                     | 9,000.00  |                                        |
| 100-204-4524-204 Burial Fees                    | 23,000.00 |                                        |
| 100-204-4700-204 Interest Earned                |           |                                        |
| 100-204-4800-204 Cemetery Miscellaneous Revenue |           |                                        |
| 100-204-4990-204 Cemetery Donations             | 3,500.00  |                                        |
|                                                 | 35,500.00 |                                        |

| I.O.O.F. Cemetery Expenditures                  | Amount     | Justification & Supporting Information                                                               |
|-------------------------------------------------|------------|------------------------------------------------------------------------------------------------------|
| 100-204-5010-204 IOOF Salaries                  | 10,000.00  |                                                                                                      |
| 100-204-5170-204 IOOF Social Security           | 765.00     |                                                                                                      |
| 100-204-5180-204 IOOF Retirement                | 600.00     |                                                                                                      |
| 100-204-5190-204 IOOF Health Insurance          | 1,211.00   |                                                                                                      |
| 100-204-5210-204 IOOF Workers Compensation      | 438.00     |                                                                                                      |
| 100-204-5260-204 I.O.O.F. Professional Services | 111,402.00 | \$108000 Groundskeeping; Pest Control; Alarm Monitoring; Recorder Fees, Cemsite annual fee \$2866.50 |
| 100-204-5262-204 I.O.O.F. Burial Costs          | 21,630.00  |                                                                                                      |
| 100-204-5300-204 Cemetery Insurance & Bonds     | 1,194.00   | Property Ins                                                                                         |
| 100-204-5320-204 Cemetery Facility Maintenance  | 4,526.00   |                                                                                                      |
| 100-204-5325-204 Grounds Maintenance            | 5,800.00   | Signage \$200, Tree removal \$5,000, stone repairs \$600                                             |
| 100-204-5330-204 Cemetery Equipment Maintenance | 1,250.00   |                                                                                                      |
| 100-204-5530-204 Cemetery Fuels/Lubricants      | 420.00     |                                                                                                      |
| 100-204-5590-204 General Supplies               | 925.00     | flags \$200                                                                                          |
| 100-204-6300-204 I.O.O.F. Electricity Costs     | 571.00     |                                                                                                      |
|                                                 | 160,732.00 |                                                                                                      |

| I.O.O.F. Cemetery Other Sources | Amount | Justification & Supporting Information |
|---------------------------------|--------|----------------------------------------|
|                                 |        |                                        |

| I.O.O.F. Cemetery Other Uses                     | Amount    | Justification & Supporting Information    |
|--------------------------------------------------|-----------|-------------------------------------------|
| 100-000-3285-204 Transfer to Capital Improvement | 39,000.00 | Cemetery Roads \$35,000, Surveyor \$4,000 |
|                                                  |           |                                           |



## Fire Department

Aaron Houk

Fire Chief

[ahouk@neoshomo.org](mailto:ahouk@neoshomo.org)

The Fire Department's mission is to assist the citizens of Neosho through prevention, planning, education and action. The Fire Department is funded by a 1/4 of 1% sales tax, a 1/2 of 1% public safety tax, a contract with the Neosho Area Fire Protection District, and the City's General Fund.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 999,399.94          | 909,973.00            | 859,196.74                 | 976,309.00             |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | -                   | -                     | -                          | -                      |
| Other Sources        | 2,139,581.96        | 1,468,499.00          | 1,101,384.00               | 1,521,690.00           |
| <b>Total</b>         | <b>3,138,981.90</b> | <b>2,378,472.00</b>   | <b>1,960,580.74</b>        | <b>2,497,999.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 1,813,656.50        | 1,860,258.00          | 1,387,720.51               | 1,957,948.00           |
| Supplies & Materials          | 8,911.16            | 10,025.00             | 5,714.25                   | 10,590.00              |
| Maintenance & Repair          | 64,882.29           | 54,742.00             | 57,058.88                  | 61,100.00              |
| Contractual Services          | 54,896.92           | 88,948.00             | 67,804.99                  | 105,744.00             |
| Utilities                     | 44,095.65           | 42,730.00             | 30,531.79                  | 32,522.00              |
| Other Expenses                | 56,072.77           | 61,369.00             | 21,900.55                  | 82,633.00              |
| Capital                       | 1,134,002.20        | 640,345.00            | 289,000.84                 | 484,985.00             |
| Other Uses                    | -                   | -                     | -                          | -                      |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>3,176,517.49</b> | <b>2,758,417.00</b>   | <b>1,859,731.81</b>        | <b>2,735,522.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Professional Services** - Ladder maintenance agreement, engineering services, SCBA Testing services

**Facility Maintenance** - Replace HVAC Station 2

**Increase in base salary** of 6%

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

#### Decreases:

| Staffing Levels          | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|--------------------------|---------------|-----------------------|-----------------------|------------------------|
| Fire Chief               | 1             | 1                     | 1                     | 1                      |
| Deputy Chief             |               |                       |                       | 1                      |
| Battalion Chief          | 3             | 3                     | 3                     | 3                      |
| Captain                  | 3             | 3                     | 3                     | 3                      |
| Training Chief           |               |                       |                       |                        |
| Engineer                 | 12            | 12                    | 12                    | 12                     |
| Firefighter              | 6             | 6                     | 6                     | 6                      |
| Administrative Assistant | 1             | 1                     | 1                     | 1                      |
| Marshall                 | 1             | 1                     |                       |                        |
| <b>DEPARTMENT TOTAL</b>  | <b>27</b>     | <b>27</b>             | <b>27</b>             | <b>27</b>              |

|                 |
|-----------------|
| Fire Department |
|-----------------|

| Account                                                  | Account Name                   | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------------------|--------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Fire Department Revenues                                 |                                |                        |                        |                              |                               |                              |
| 130-130-4030-130                                         | Fire Department Sales Tax      | 838,035.53             | 678,809.00             | 610,381.23                   | 813,841.64                    | 678,809.00                   |
| 130-130-4150-130                                         | Fire Department Fees           | 230.00                 | 300.00                 | 370.00                       | 493.33                        | -                            |
| 130-130-4200-130                                         | Grant Revenues                 | 17,630.00              | 105,000.00             | 94,884.86                    | 126,513.15                    | 167,500.00                   |
| 130-130-4760-130                                         | Insurance Proceeds             | -                      | -                      | 10,456.11                    | 13,941.48                     | -                            |
| 130-130-4800-130                                         | Fire Department Miscellaneous  | 16,313.94              | -                      | 675.00                       | 900.00                        | -                            |
| 130-130-4820-130                                         | Fire Sale of Property          | 591.05                 | -                      | -                            | -                             | -                            |
| 130-130-4850-130                                         | Contract: Fire District        | 125,863.20             | 125,864.00             | 130,000.00                   | 173,333.33                    | 130,000.00                   |
| 130-130-4990-130                                         | Donations - Fire Dept.         | 40.00                  | -                      | 70.00                        | 93.33                         | -                            |
| <b>Total Fire Department Revenues</b>                    |                                | <b>\$ 999,399.94</b>   | <b>\$ 909,973.00</b>   | <b>\$ 859,196.74</b>         | <b>\$ 1,145,595.65</b>        | <b>\$ 976,309.00</b>         |
| Fire Department Expenditures                             |                                |                        |                        |                              |                               |                              |
| 130-130-5010-130                                         | Fire Dept Salaries             | 1,168,296.05           | 1,229,372.00           | 910,580.58                   | 1,229,372.00                  | 1,287,459.00                 |
| 130-130-5020-130                                         | Fire Dept Overtime             | 153,560.16             | 134,000.00             | 126,282.45                   | 168,376.60                    | 134,000.00                   |
| 130-130-5030-130                                         | Fire Dept Part Time            | 330.20                 | 3,500.00               | 432.60                       | 576.80                        | 3,500.00                     |
| 130-130-5070-130                                         | Availability Allowance         | 1,635.00               | 1,800.00               | 1,155.00                     | 1,540.00                      | 3,240.00                     |
| 130-130-5170-130                                         | Fire Dept Social Security      | 97,148.78              | 104,528.00             | 76,934.27                    | 104,528.00                    | 113,997.00                   |
| 130-130-5180-130                                         | Fire Dept Retirement           | 114,151.77             | 111,797.00             | 80,176.54                    | 111,797.00                    | 130,775.00                   |
| 130-130-5190-130                                         | Fire Dept Health Insurance     | 195,450.75             | 203,923.00             | 133,421.56                   | 203,923.00                    | 210,458.00                   |
| 130-130-5210-130                                         | Fire Dept Workers Compensation | 77,977.89              | 59,848.00              | 56,973.16                    | 59,848.00                     | 65,269.00                    |
| 130-130-5230-130                                         | Physicals                      | 514.08                 | 1,500.00               | 147.60                       | 196.80                        | 1,500.00                     |
| 130-130-5260-130                                         | Fire Dept Prof. Services       | 33,027.30              | 52,336.00              | 30,750.62                    | 41,000.83                     | 61,320.00                    |
| 130-130-5300-130                                         | Fire Dept Insurance and Bonds  | 21,355.54              | 35,112.00              | 36,906.77                    | 49,209.03                     | 42,924.00                    |
| 130-130-5320-130                                         | Fire Dept Facility Maintenance | 19,103.42              | 15,500.00              | 4,511.89                     | 6,015.85                      | 31,600.00                    |
| 130-130-5330-130                                         | Fire Dept Equipment Maint.     | 45,778.87              | 39,242.00              | 52,546.99                    | 70,062.65                     | 29,500.00                    |
| 130-130-5360-130                                         | Fire Dept Member/Train/Trvl    | 4,605.90               | 7,990.00               | 1,764.35                     | 2,352.47                      | 2,850.00                     |
| 130-130-5380-130                                         | Fire Dept Uniforms             | -                      | 1,100.00               | -                            | -                             | 4,000.00                     |
| 130-130-5530-130                                         | Fire Dept Fuels/Lubricants     | 17,567.52              | 15,750.00              | 13,399.61                    | 17,866.15                     | 15,750.00                    |
| 130-130-5540-130                                         | Fire Dept Chemicals            | 474.12                 | 525.00                 | 419.30                       | 559.07                        | 1,130.00                     |
| 130-130-5590-130                                         | Fire Dept General Supplies     | 8,437.04               | 9,500.00               | 5,294.95                     | 7,059.93                      | 9,460.00                     |
| 130-130-5700-130                                         | Fire Dept Comp., Software      | 8,137.08               | 11,724.00              | 3,782.10                     | 5,042.80                      | 15,225.00                    |
| 130-130-6300-130                                         | Fire Dept Electricity          | 16,690.89              | 15,430.00              | 9,988.83                     | 13,318.44                     | 15,430.00                    |
| 130-130-6310-130                                         | Fire Dept Heating Fuels        | 7,794.30               | 8,400.00               | 6,597.79                     | 8,797.05                      | 8,400.00                     |
| 130-130-6350-130                                         | Fire Dept Phones               | 19,610.46              | 18,900.00              | 13,945.17                    | 18,593.56                     | 8,692.00                     |
| 130-130-6380-130                                         | Lease Purchase Payments        | 47,604.56              | -                      | -                            | -                             | -                            |
| 130-130-6390-130                                         | Fire Dept. Minor Equipment     | 30,368.17              | 33,895.00              | 4,718.84                     | 4,718.84                      | 51,658.00                    |
| 130-130-5361-130                                         | Fire Academy Training          | 500.00                 | 2,400.00               | -                            | -                             | 2,400.00                     |
| <b>Total Fire Department Expenditures</b>                |                                | <b>\$ 2,090,119.85</b> | <b>\$ 2,118,072.00</b> | <b>\$ 1,570,730.97</b>       | <b>\$ 2,124,754.87</b>        | <b>\$ 2,250,537.00</b>       |
| Fire Department Other Sources                            |                                |                        |                        |                              |                               |                              |
| 130-000-3305-000                                         | Transfer fm Public Safety Fund | 847,488.10             | 753,748.00             | 565,317.00                   | 753,748.00                    | 866,763.00                   |
| 130-000-3330-000                                         | Transfer fm General            | 1,292,093.86           | 714,751.00             | 536,067.00                   | 714,751.00                    | 654,927.00                   |
| <b>Total Fire Department Other Sources</b>               |                                | <b>\$ 2,139,581.96</b> | <b>\$ 1,468,499.00</b> | <b>\$ 1,101,384.00</b>       | <b>\$ 1,468,499.00</b>        | <b>\$ 1,521,690.00</b>       |
| Fire Department Other Uses                               |                                |                        |                        |                              |                               |                              |
| 130-000-3285-000                                         | Trns to Capital Improvement    | 1,086,397.64           | 640,345.00             | 289,000.84                   | 289,000.84                    | 484,985.00                   |
| <b>Total Fire Department Other Uses</b>                  |                                | <b>\$ 1,086,397.64</b> | <b>\$ 640,345.00</b>   | <b>\$ 289,000.84</b>         | <b>\$ 289,000.84</b>          | <b>\$ 484,985.00</b>         |
| Change in Fund Balance                                   |                                | (37,535.59)            | (379,945.00)           | 100,848.93                   | 200,338.95                    | (237,523.00)                 |
| <b>Fire Department Beginning Fund Balance"October 1"</b> |                                | <b>\$ 641,074.00</b>   | <b>\$ 603,538.41</b>   | <b>\$ 603,538.41</b>         | <b>\$ 603,538.41</b>          | <b>\$ 803,877.36</b>         |

| Account                                              | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|------------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Total Fire Department Funding Sources                |              | \$ 3,780,055.90  | \$ 2,982,010.41  | \$ 2,564,119.15     | \$ 3,217,633.06  | \$ 3,301,876.36  |
| Total Fire Department Funding Uses                   |              | \$ 3,176,517.49  | \$ 2,758,417.00  | \$ 1,859,731.81     | \$ 2,413,755.71  | \$ 2,735,522.00  |
| Fire Department Beginning Fund Balance"September 30" |              | \$ 603,538.41    | \$ 223,593.41    | \$ 704,387.34       | \$ 803,877.36    | \$ 566,354.36    |

|                |               |
|----------------|---------------|
| 90-Day Reserve | \$ 554,926.93 |
|----------------|---------------|

Days reserve 91.85

| Fire Sales Tax        |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 9.20%    |

Payroll Detail

| FTE                  | #     | FY2024       | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance  | Work Comp | Total Salary &<br>Benefits |
|----------------------|-------|--------------|--------------------|-----------------------|---------------------------|--------------------|------------|------------|-----------|----------------------------|
| Houk, Aaron          | 1     | 75,358.92    | \$ 77,619.69       |                       | 360                       | 5,938.00           | 7,142.00   | 7,795.00   | 3,400.00  | \$ 102,254.69              |
| Williams, Derek      | 1     | 64,138.36    | \$ 66,062.51       |                       | 360                       | 5,054.00           | 6,078.00   | 7,795.00   | 2,894.00  | \$ 88,243.51               |
| Christainsen, Daniel | 1     | 38,064.69    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   |            | 1,772.00  | \$ 49,023.16               |
| Dobbs, Spencer       | 1     | 38,064.69    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Rogers, John         | 1     | 52,252.72    | \$ 55,050.89       |                       | 360                       | 4,212.00           | 5,065.00   | 7,878.72   | 2,412.00  | \$ 74,978.61               |
| Forester, Billy      | 1     | 36,554.70    | \$ 39,206.63       |                       |                           | 3,000.00           | 3,608.00   | 7,795.00   | 1,718.00  | \$ 55,327.63               |
| Cockrum, Jason       | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Lake, Dennis         | 1     | 38,064.69    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Solomon, Mark        | 1     | 45,158.88    | \$ 46,603.62       |                       |                           | 3,566.00           | 4,288.00   | 7,990.36   | 2,042.00  | \$ 64,489.98               |
| Davis, Michael Beau  | 1     | 52,252.72    | \$ 55,050.89       |                       | 360                       | 4,212.00           | 5,065.00   | 7,795.00   | 2,412.00  | \$ 74,894.89               |
| Kelly, Taylor        | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Bracht, Travis       | 1     | 47,477.30    | \$ 50,130.90       |                       | 360                       | 3,836.00           | 4,613.00   | 7,795.00   | 2,196.00  | \$ 68,930.90               |
| Vaughn,Trenton       | 1     | 36,554.70    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Pim, Jacob           | 1     | 47,477.30    | \$ 50,130.90       |                       | 360                       | 3,836.00           | 4,613.00   | 7,795.00   | 2,196.00  | \$ 68,930.90               |
| Doke, Phillip        | 1     | 43,965.74    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Parsons, Lance       | 1     | 52,252.72    | \$ 55,050.89       |                       | 360                       | 4,212.00           | 5,065.00   | 7,878.72   | 2,412.00  | \$ 74,978.61               |
| Burns, Brandon       | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| McKee, Zachary       | 1     | 38,064.78    | \$ 40,436.16       |                       |                           | 3,094.00           | 3,721.00   | 7,795.00   | 1,772.00  | \$ 56,818.16               |
| Naugle, Lawrence Dan | 1     | 47,477.30    | \$ 50,130.90       |                       | 360                       | 3,836.00           | 4,613.00   | 7,878.72   | 2,196.00  | \$ 69,014.62               |
| Pringle, Shelby      | 1     | 40,881.10    | \$ 42,107.53       |                       | \$ 360.00                 | 3,222.00           | 3,874.00   | 7,795.00   | 1,845.00  | \$ 59,203.53               |
| Sanders, Mark        | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Hutchens, Christen   | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Hammonds, Tyler      | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Ridenour, Caleb      | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Chapman, Zachary     | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Nance, Shawn         | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
| Sanders, Nathan      | 1     | 42,771.04    | \$ 45,284.77       |                       |                           | 3,465.00           | 4,167.00   | 7,795.00   | 1,984.00  | \$ 62,695.77               |
|                      | 27.00 | 1,221,771.71 | 1,287,458.62       | -                     | 3,240.00                  | 98,509.00          | 118,466.00 | 203,116.53 | 56,407.00 | \$ 1,767,197.15            |
|                      |       |              | 65,686.91          |                       |                           |                    |            |            |           |                            |

Current Estimate Proposed

|                      |            |            |
|----------------------|------------|------------|
| Overtime             | 168,376.60 | 134,000.00 |
| Part Time & Seasonal | 576.80     | 3,000.00   |

|                |              |              |
|----------------|--------------|--------------|
| Total Salaries | 1,390,725.11 | 1,490,145.53 |
|----------------|--------------|--------------|

| Department Request |                                        |            |
|--------------------|----------------------------------------|------------|
| Amount             | Justification & Supporting Information |            |
| 130-130-4030-130   | Fire Department Sales Tax              | 678,809.00 |
| 130-130-4150-130   | Fire Department Fees                   |            |
| 130-130-4200-130   | Grant Revenues                         |            |
|                    |                                        | \$167,500  |
| 130-130-4850-130   | Contract: Fire District                | 130,000.00 |
|                    |                                        |            |
|                    |                                        | 976,309.00 |

| Amount           | Justification & Supporting Information |                                       |
|------------------|----------------------------------------|---------------------------------------|
| 130-130-5010-130 | Fire Dept Salaries                     | 1,287,459.00                          |
| 130-130-5020-130 | Fire Dept Overtime                     | 134,000.00                            |
| 130-130-5030-130 | Fire Dept Part Time                    | 3,500.00                              |
| 130-130-5070-130 | Availability Allowance                 | 3,240.00                              |
| 130-130-5170-130 | Fire Dept Social Security              | 113,997.00                            |
| 130-130-5180-130 | Fire Dept Retirement                   | 130,775.00                            |
| 130-130-5190-130 | Fire Dept Health Insurance             | 210,458.00                            |
| 130-130-5210-130 | Fire Dept Workers Compensation         | 65,269.00                             |
| 130-130-5230-130 | Physicals                              | 1,500.00                              |
|                  |                                        | Return to work Physicals after injury |

Fire Sales Tax Expenditures

130-130-5260-130 Fire Dept Prof. Services

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 61,320.00    | Pest Control \$1,000, Airgas Lease \$175, Ladder Testing \$3,100, Reporting software \$12,000, SCBA Testing \$3,285, Copier Mtce \$650, BAM unit Mtce \$1,700, Pump testing \$2,250, Stronghold \$14,316, Air Sample Testing \$800, AED testing, \$550, AT&T Air connection \$4,860, Cummins Generator service \$660, SCBA Fit testing \$850, Ladder Maintenance (25 hour req'd maint ) \$7,500 (\$1,500 per visit, est. @ 5 visits), Superion \$1779, Net Motion \$3,500, Hydro testing SCBA Bottles \$3,300    |
| 42,924.00    | Property Ins, includes critical illness                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 31,600.00    | Repair front and rear of station 1 where the wood is rotting away. Use metal \$7,500. Replace HVAC at station 2 \$14,500, Repair parking lot and seal station 1 \$3,600.                                                                                                                                                                                                                                                                                                                                         |
| \$29,500.00  | New tires \$3,600 x 4, Repair Scene lights on Rescue 4 \$1,000, Annual service on all equipment, Annual service on small engines and saws, Delete kit E-6 \$7,500 New K-12 blades \$600                                                                                                                                                                                                                                                                                                                          |
| 2,850.00     | Membership to Ozark Gateway Chiefs. FDIC 2500, MoChiefs 300,                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4,000.00     | Class A uniforms x 5 Chief Officers Jackets, ,Hats, Shoes                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 15,750.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1,130.00     | Test gas for meters \$500 130 for CO gas 500 for chemicals                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9,460.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 15,225.00    | Firewall \$210, Office 365 \$6,413.20, Cyber Software \$3,599.86, Adobe \$204, Wifi Booster \$810, server license upgrade \$4,191.10                                                                                                                                                                                                                                                                                                                                                                             |
| 15,430.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8,400.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8,692.00     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 51,658.00    | New Thermal Camera for Engine 6 \$6,400 , SCBA Mask 2516, SCBA Mask Bags 200, Hose Roller \$7500, 2 new battery operated K-12 saws 1850, 8 Motorola Portable batteries 1200, corded mics for portables 1779, 2 tac med back pack med bags 600, Portable scene lighting 600, Milwaukee battery powered sawzalls 850, Strap for Irons 650, 4 Hotel packs 1,260, Fuel tank 2,000, Swift water gear 3 full sets 5,000. 4" Supply hose for Engine 8 \$7,453, Station 2 binker gear extractor washing machine \$12,000 |
| 2,400.00     | 3 trainees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2,250,537.00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Fire Sales Tax Other Sources

130-000-3305-000 Transfer fm Public Safety Fund

130-000-3330-000 Transfer fm General

| Amount     | Justification & Supporting Information                                                                                             |
|------------|------------------------------------------------------------------------------------------------------------------------------------|
| 866,763.00 | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000 |
| 654,927.00 | Additional 100,000 included to keep Fire at 90 days                                                                                |

Fire Sales Tax Other Uses

130-000-3285-000 Trns to Capital Improvement

| Amount     | Justification & Supporting Information                                                                                             |
|------------|------------------------------------------------------------------------------------------------------------------------------------|
| 484,985.00 | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000 |

## Drainage Department

Nate Siler  
Public Works Director  
[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

Storm water Management – The Department maintains the storm sewer system and storm water detention and retention basins and ensures the city complies with the increasingly stringent water quality standards of the EPA, the DNR.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 501,620.77        | 407,468.00            | 366,228.98                 | 407,468.00             |
| Intergovernmental    | 154,261.10        | 300,000.00            | 247,625.63                 | 7,200,936.00           |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | 7,583.59          | 2,500.00              | 13,454.71                  | 18,500.00              |
| Other Sources        | -                 | 1,129,114.00          | -                          | -                      |
| <b>Total</b>         | <b>663,465.46</b> | <b>1,839,082.00</b>   | <b>627,309.32</b>          | <b>7,626,904.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 99,689.55         | 86,738.00             | 55,110.76                  | 89,300.00              |
| Supplies & Materials          | -                 | -                     | -                          | -                      |
| Maintenance & Repair          | 24,528.14         | 36,750.00             | 7,974.70                   | 36,750.00              |
| Contractual Services          | 9,607.35          | 10,650.00             | 1,783.62                   | 10,650.00              |
| Utilities                     | -                 | -                     | 226.43                     | 3,198.00               |
| Other Expenses                | 5,250.22          | 8,000.00              | 3,027.57                   | 8,099.00               |
| Capital                       | 284,955.57        | 2,084,114.00          | 1,414,047.84               | 7,703,160.00           |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>424,030.83</b> | <b>2,226,252.00</b>   | <b>1,482,170.92</b>        | <b>7,851,157.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

**Capital - Partial Completion** DED project on Stratford and Freeman \$2,652,000, ARPA Grant with cost share \$6,329,114

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Drainage Foreman        |               | 1                     | 1                     | 1                      |
| Drainage Maintenance    |               | 1                     |                       |                        |
| <b>DEPARTMENT TOTAL</b> |               | <b>2</b>              | <b>1</b>              | <b>1</b>               |

|                     |
|---------------------|
| Drainage Department |
|---------------------|

| Account                                                         | Account Name                   | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------------|--------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Drainage Department Revenues                                    |                                |                        |                        |                              |                               |                              |
| 170-990-4030-990                                                | Sales Tax Drainage             | 501,620.77             | 407,468.00             | 366,228.98                   | 488,305.31                    | 407,468.00                   |
| 170-990-4200-990                                                | Grant Revenue                  | 154,261.10             | 300,000.00             | 247,625.63                   | 330,167.51                    | 7,200,936.00                 |
| 170-990-4700-990                                                | Interest Earned-Drainage Fund  | 3,917.39               | 2,500.00               | 13,454.71                    | 17,939.61                     | 18,500.00                    |
| 170-990-4820-990                                                | Sale of Drainage Property      | -                      | -                      | -                            | -                             | -                            |
| <b>Total Drainage Department Revenues</b>                       |                                | <b>\$ 663,465.46</b>   | <b>\$ 709,968.00</b>   | <b>\$ 627,309.32</b>         | <b>\$ 836,412.43</b>          | <b>\$ 7,626,904.00</b>       |
| Drainage Department Expenditures                                |                                |                        |                        |                              |                               |                              |
| 170-990-5010-990                                                | Drainage Salaries              | 65,079.59              | 50,079.00              | 38,025.52                    | 50,079.00                     | 51,582.00                    |
| 170-990-5020-990                                                | Drainage Overtime              | 5,213.15               | 4,667.00               | 1,943.66                     | 2,591.55                      | 4,667.00                     |
| 170-990-5030-990                                                | Drainage Part Time             | 4,759.64               | 12,000.00              | -                            | -                             | 12,000.00                    |
| 170-990-5070-990                                                | Availability Allowance         | 345.00                 | 360.00                 | 270.00                       | 360.00                        | 360.00                       |
| 170-990-5170-990                                                | Drainage Social Security       | 5,731.47               | 5,107.00               | 3,051.03                     | 4,068.04                      | 5,221.00                     |
| 170-990-5180-990                                                | Drainage Retirement            | 2,658.99               | 2,738.00               | 2,012.03                     | 2,682.71                      | 3,375.00                     |
| 170-990-5190-990                                                | Drainage Health Insurance      | 12,298.69              | 7,553.00               | 5,361.48                     | 7,148.64                      | 7,795.00                     |
| 170-990-5210-990                                                | Drainage Workers Compensation  | 2,502.60               | 2,924.00               | 3,960.85                     | 5,281.13                      | 2,990.00                     |
| 170-990-5260-990                                                | Drainage Professional Services | 8,777.15               | 10,250.00              | 1,783.62                     | 2,378.16                      | 10,250.00                    |
| 170-990-5300-990                                                | Drainage Insurance & Bonds     | 830.20                 | 400.00                 | -                            | 400.00                        | 400.00                       |
| 170-990-5330-990                                                | Drainage Equipment Maintenance | 18,191.43              | 15,750.00              | 4,452.38                     | 5,936.51                      | 15,750.00                    |
| 170-990-5380-990                                                | Drainage Uniforms              | 1,100.42               | 1,310.00               | 486.19                       | 648.25                        | 1,310.00                     |
| 170-990-5530-990                                                | Drainage Fuels/Lubricants      | 5,250.22               | 8,000.00               | 3,027.57                     | 4,036.76                      | 8,000.00                     |
| 170-990-5590-990                                                | Drainage General Supplies      | -                      | -                      | -                            | -                             | -                            |
| 170-990-5640-990                                                | Drainage Maintenance           | 6,336.71               | 21,000.00              | 3,522.32                     | 4,696.43                      | 21,000.00                    |
| 170-990-5700-990                                                | Drainage Computer/Software     | -                      | -                      | -                            | -                             | 99.00                        |
| 170-990-6350-990                                                | Drainage Phones                | -                      | -                      | 226.43                       | 301.91                        | 3,198.00                     |
| 170-990-6380-990                                                | Lease Purchase Payments        | -                      | -                      | -                            | -                             | -                            |
| <b>Total Drainage Department Expenditures</b>                   |                                | <b>\$ 139,075.26</b>   | <b>\$ 142,138.00</b>   | <b>\$ 68,123.08</b>          | <b>\$ 90,609.08</b>           | <b>\$ 147,997.00</b>         |
| Drainage Department Other Sources                               |                                |                        |                        |                              |                               |                              |
| 170-000-3306-000                                                | Transfer fm ARPA               | -                      | 1,129,114.00           | -                            | 1,129,114.00                  | -                            |
| <b>Total Drainage Department Other Sources</b>                  |                                | <b>\$ -</b>            | <b>\$ 1,129,114.00</b> | <b>\$ -</b>                  | <b>\$ 1,129,114.00</b>        | <b>\$ -</b>                  |
| Drainage Department Other Uses                                  |                                |                        |                        |                              |                               |                              |
| 170-000-3285-000                                                | Trns to Capital Improvement    | 284,955.57             | 2,084,114.00           | 1,414,047.84                 | 1,885,397.12                  | 7,703,160.00                 |
| 170-000-3243-000                                                | Transfer to Parks Capital Imp  | -                      | -                      | -                            | -                             | -                            |
| <b>Total Drainage Department Other Uses</b>                     |                                | <b>\$ 284,955.57</b>   | <b>\$ 2,084,114.00</b> | <b>\$ 1,414,047.84</b>       | <b>\$ 1,885,397.12</b>        | <b>\$ 7,703,160.00</b>       |
| Change in Fund Balance                                          |                                | 239,434.63             | (387,170.00)           | (854,861.60)                 | (10,479.77)                   | (224,253.00)                 |
| <b>Drainage Department Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 1,162,813.00</b> | <b>\$ 1,402,247.63</b> | <b>\$ 1,402,247.63</b>       | <b>\$ 1,402,247.63</b>        | <b>\$ 1,391,767.86</b>       |
| <b>Total Drainage Department Funding Sources</b>                |                                | <b>\$ 1,826,278.46</b> | <b>\$ 3,241,329.63</b> | <b>\$ 2,029,556.95</b>       | <b>\$ 3,367,774.06</b>        | <b>\$ 9,018,671.86</b>       |
| <b>Total Drainage Department Funding Uses</b>                   |                                | <b>\$ 424,030.83</b>   | <b>\$ 2,226,252.00</b> | <b>\$ 1,482,170.92</b>       | <b>\$ 1,976,006.20</b>        | <b>\$ 7,851,157.00</b>       |
| <b>Drainage Department Beginning Fund Balance"September 30"</b> |                                | <b>\$ 1,402,247.63</b> | <b>\$ 1,015,077.63</b> | <b>\$ 547,386.03</b>         | <b>\$ 1,391,767.86</b>        | <b>\$ 1,167,514.86</b>       |

90-Day Reserve

|              |
|--------------|
| \$ 36,492.41 |
|--------------|

Days reserve

2,879.40

| Drainage Sales Tax    |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------------|------|-----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Noah, Ethan          | 1    | 50,078.86 | \$ 51,581.23       |                       | 360                       | 3,946.00           | 3,095.00   | 7,795.00  | 2,260.00     | \$ 69,037.23               |
|                      |      |           |                    |                       |                           |                    |            |           |              | \$ -                       |
|                      | 1.00 | 50,078.86 | 51,581.23          | -                     | 360.00                    | 3,946.00           | 3,095.00   | 7,795.00  | 2,260.00     | \$ 69,037.23               |
| Overtime             |      | 2,591.55  | 4,667.00           |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      | 10,000.00 | 12,000.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 62,670.41 | 68,248.22          |                       |                           |                    |            |           |              |                            |

|                             |                               | Department Request |                                                    |
|-----------------------------|-------------------------------|--------------------|----------------------------------------------------|
|                             |                               | Amount             | Justification & Supporting Information             |
| Drainage Sales Tax Revenues |                               |                    |                                                    |
| 170-990-4030-990            | Sales Tax Drainage            | 407,468.00         |                                                    |
| 170-990-4200-990            | Grant Revenue                 |                    | DED Stormwater \$2,390,497, DNR ARPA Grant Revenue |
|                             |                               | 7,200,936.00       | \$4,952,664                                        |
| 170-990-4700-990            | Interest Earned-Drainage Fund | 18,500.00          |                                                    |
|                             |                               |                    |                                                    |
|                             |                               | 7,626,904.00       |                                                    |

|                                 |                                | Amount     | Justification & Supporting Information                         |
|---------------------------------|--------------------------------|------------|----------------------------------------------------------------|
| Drainage Sales Tax Expenditures |                                |            |                                                                |
| 170-990-5010-990                | Drainage Salaries              | 51,582.00  |                                                                |
| 170-990-5020-990                | Drainage Overtime              | 4,667.00   |                                                                |
| 170-990-5030-990                | Drainage Part Time             | 12,000.00  | Seasonal employees during leaf pickup and mowing               |
| 170-990-5070-990                | Availability Allowance         | 360.00     |                                                                |
| 170-990-5170-990                | Drainage Social Security       | 5,221.00   |                                                                |
| 170-990-5180-990                | Drainage Retirement            | 3,375.00   |                                                                |
| 170-990-5190-990                | Drainage Health Insurance      | 7,795.00   |                                                                |
| 170-990-5210-990                | Drainage Workers Compensation  | 2,990.00   |                                                                |
| 170-990-5260-990                | Drainage Professional Services |            | As needed engineering for various on call flooding issues      |
|                                 |                                | 10,250.00  | \$10,000, Stronghold 250                                       |
| 170-990-5300-990                | Drainage Insurance & Bonds     | 400.00     | bonds only                                                     |
| 170-990-5330-990                | Drainage Equipment Maintenance | 15,750.00  | Used for heavy equipment and service truck maintenance and rep |
| 170-990-5380-990                | Drainage Uniforms              | 1,310.00   | \$1,310 for jeans, boots, coat, vest and hat allowance         |
| 170-990-5530-990                | Drainage Fuels/Lubricants      | 8,000.00   | increase for fuel cost                                         |
| 170-990-5590-990                | Drainage General Supplies      |            |                                                                |
| 170-990-5640-990                | Drainage Maintenance           | 21,000.00  |                                                                |
| 170-990-5700-990                | Drainage Computer/Software     | 99.00      | Server license upgrade \$98.45                                 |
| 170-990-6350-990                | Drainage Phones                | 3,198.00   | tablet phone line, fiber                                       |
| 170-990-6380-990                | Lease Purchase Payments        |            |                                                                |
|                                 |                                |            |                                                                |
|                                 |                                | 147,997.00 |                                                                |

|                                  |                  | Amount | Justification & Supporting Information |
|----------------------------------|------------------|--------|----------------------------------------|
| Drainage Sales Tax Other Sources |                  |        |                                        |
| 170-000-3306-000                 | Transfer fm ARPA |        |                                        |
|                                  |                  |        |                                        |

|                               |                             | Amount       | Justification & Supporting Information                                   |
|-------------------------------|-----------------------------|--------------|--------------------------------------------------------------------------|
| Drainage Sales Tax Other Uses |                             |              |                                                                          |
| 170-000-3285-000              | Trns to Capital Improvement |              | ARPA Cost Share \$4,952,664, Land Purchase retention                     |
|                               |                             | 7,703,160.00 | \$300,000, Mower replacement \$20,000, 20% match retention pond \$40,000 |



## Senior Center

David Kennedy

City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

The Neosho Senior Center is available for the senior citizens to come for fellowship and have a nutritious lunch, play pool, dominos, bridge, exercise and enjoy other activities.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 209,004.11        | 169,780.00            | 152,595.33                 | 169,780.00             |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | 719.14            | 400.00                | 5,389.26                   | 6,970.00               |
| Other Sources        | 34,899.00         | -                     | -                          | -                      |
| <b>Total</b>         | <b>244,622.25</b> | <b>170,180.00</b>     | <b>157,984.59</b>          | <b>176,750.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 9,177.12          | 8,817.00              | 6,372.15                   | 9,120.00               |
| Supplies & Materials          | 659.23            | 1,050.00              | 210.41                     | 1,000.00               |
| Maintenance & Repair          | 9,475.50          | 12,848.00             | 1,919.85                   | 12,500.00              |
| Contractual Services          | 11,320.81         | 13,011.00             | 12,113.74                  | 13,331.00              |
| Utilities                     | 32,586.69         | 31,473.00             | 20,687.32                  | 30,248.00              |
| Other Expenses                | 1,961.65          | 3,675.00              | 1,136.92                   | 3,525.00               |
| Capital                       | 160,489.43        | 43,000.00             | 24,345.00                  | 25,000.00              |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | 52,196.06         | 53,680.00             | 48,695.00                  | 53,680.00              |
| <b>Total</b>                  | <b>277,866.49</b> | <b>167,554.00</b>     | <b>115,480.39</b>          | <b>148,404.00</b>      |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

**Phones** - Decrease current rates

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| No FTE                  | 0.16          | 0.16                  | 0.16                  | 0.16                   |
| <b>DEPARTMENT TOTAL</b> | <b>0.16</b>   | <b>0.16</b>           | <b>0.16</b>           | <b>0.16</b>            |

|               |
|---------------|
| Senior Center |
|---------------|

| Account                                                   | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Senior Center Revenues                                    |                                |                      |                      |                              |                               |                              |
| 175-175-4030-175                                          | Sales Tax - 1/16-Cent          | 209,004.11           | 169,780.00           | 152,595.33                   | 203,460.44                    | 169,780.00                   |
| 175-175-4700-175                                          | Interest Earned-Senior Center  | 541.78               | 400.00               | 5,389.26                     | 7,185.68                      | 6,970.00                     |
| 175-175-4820-175                                          | Sale of Property               | 177.36               | -                    | -                            | -                             | -                            |
| <b>Total Senior Center Revenues</b>                       |                                | <b>\$ 209,723.25</b> | <b>\$ 170,180.00</b> | <b>\$ 157,984.59</b>         | <b>\$ 210,646.12</b>          | <b>\$ 176,750.00</b>         |
| Senior Center Expenditures                                |                                |                      |                      |                              |                               |                              |
| 175-175-5010-175                                          | Senior Center Salaries         | 5,131.59             | 5,743.00             | 4,383.64                     | 5,844.85                      | 5,915.00                     |
| 175-175-5020-175                                          | Senior Center Overtime         | 50.74                | 500.00               | 27.60                        | 36.80                         | 500.00                       |
| 175-175-5170-175                                          | Senior Center Social Security  | 393.30               | 478.00               | 333.11                       | 444.15                        | 491.00                       |
| 175-175-5180-175                                          | Senior Center Retirement       | 158.09               | 313.00               | 220.54                       | 294.05                        | 385.00                       |
| 175-175-5190-175                                          | Senior Center Health Insurance | 1,055.93             | 1,209.00             | 857.89                       | 1,143.85                      | 1,248.00                     |
| 175-175-5210-175                                          | Senior Center Workers Comp.    | 2,387.47             | 274.00               | 249.37                       | 332.49                        | 281.00                       |
| 175-175-5260-175                                          | Senior Center Prof. Services   | 7,594.39             | 7,430.00             | 6,822.99                     | 9,097.32                      | 7,430.00                     |
| 175-175-5300-175                                          | Senior Center Ins. & Bonds     | 3,726.42             | 5,581.00             | 5,290.75                     | 7,054.33                      | 5,901.00                     |
| 175-175-5320-175                                          | Senior Center Facility Maint.  | 9,368.52             | 12,348.00            | 1,912.87                     | 2,550.49                      | 12,000.00                    |
| 175-175-5330-175                                          | Senior Center Equipment Maint. | 106.98               | 500.00               | 6.98                         | 9.31                          | 500.00                       |
| 175-175-5360-175                                          | Senior Center Memb/Train/Trvl  | -                    | 300.00               | 300.00                       | 400.00                        | 300.00                       |
| 175-175-5590-175                                          | Senior Center General Supplies | 659.23               | 1,050.00             | 210.41                       | 280.55                        | 1,000.00                     |
| 175-175-5610-175                                          | Senior Center Activity/Event   | 1,961.65             | 3,150.00             | 1,136.92                     | 1,515.89                      | 3,000.00                     |
| 175-175-5700-175                                          | Senior Center Comp., Software  | -                    | 525.00               | -                            | -                             | 525.00                       |
| 175-175-6300-175                                          | Senior Center Electricity      | 28,357.05            | 27,000.00            | 17,949.39                    | 23,932.52                     | 27,000.00                    |
| 175-175-6350-175                                          | Senior Center Phones           | 4,229.64             | 4,473.00             | 2,737.93                     | 3,650.57                      | 3,248.00                     |
| <b>Total Senior Center Expenditures</b>                   |                                | <b>\$ 65,181.00</b>  | <b>\$ 70,874.00</b>  | <b>\$ 42,440.39</b>          | <b>\$ 56,587.19</b>           | <b>\$ 69,724.00</b>          |
| Senior Center Other Sources                               |                                |                      |                      |                              |                               |                              |
| 175-000-3303-000                                          | Transfer from General          | -                    | -                    | -                            | -                             | -                            |
| 175-000-3364-000                                          | Transfer to Capital Reserve    | 34,899.00            | -                    | -                            | -                             | -                            |
| <b>Total Senior Center Other Sources</b>                  |                                | <b>\$ 34,899.00</b>  | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Senior Center Other Uses                                  |                                |                      |                      |                              |                               |                              |
| 175-000-3285-000                                          | Trns to Capital Improvement    | 125,590.43           | 43,000.00            | 24,345.00                    | 43,000.00                     | 25,000.00                    |
| 175-000-3221-000                                          | Transfer to 2021 Series DS     | 52,196.06            | 53,680.00            | 48,695.00                    | 48,695.00                     | 53,680.00                    |
| 175-000-3264-000                                          | Transfer to Capital Reserve    | 34,899.00            | -                    | -                            | -                             | -                            |
| <b>Total Senior Center Other Uses</b>                     |                                | <b>\$ 212,685.49</b> | <b>\$ 96,680.00</b>  | <b>\$ 73,040.00</b>          | <b>\$ 91,695.00</b>           | <b>\$ 78,680.00</b>          |
| Change in Fund Balance                                    |                                | (33,244.24)          | 2,626.00             | 42,504.20                    | 62,363.93                     | 28,346.00                    |
| <b>Senior Center Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 267,483.00</b> | <b>\$ 234,238.76</b> | <b>\$ 234,238.76</b>         | <b>\$ 234,238.76</b>          | <b>\$ 296,602.69</b>         |
| <b>Total Senior Center Funding Sources</b>                |                                | <b>\$ 512,105.25</b> | <b>\$ 404,418.76</b> | <b>\$ 392,223.35</b>         | <b>\$ 444,884.88</b>          | <b>\$ 473,352.69</b>         |
| <b>Total Senior Center Funding Uses</b>                   |                                | <b>\$ 277,866.49</b> | <b>\$ 167,554.00</b> | <b>\$ 115,480.39</b>         | <b>\$ 148,282.19</b>          | <b>\$ 148,404.00</b>         |
| <b>Senior Center Beginning Fund Balance"September 30"</b> |                                | <b>\$ 234,238.76</b> | <b>\$ 236,864.76</b> | <b>\$ 276,742.96</b>         | <b>\$ 296,602.69</b>          | <b>\$ 324,948.69</b>         |
| Assigned Fund Balance - HVAC                              |                                | 34,899.00            | \$ 40,000.00         | \$ -                         | \$ -                          | \$ -                         |

| Account                       | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|-------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Total Committed Fund Balance  |              | \$ 34,899.00     | \$ 40,000.00     | \$ -                | \$ -             | \$ -             |
| Total Unassigned Fund Balance |              | 199,339.76       | 196,864.76       | 276,742.96          | 296,602.69       | 324,948.69       |

|                |  |  |  |              |  |              |
|----------------|--|--|--|--------------|--|--------------|
| 90-Day Reserve |  |  |  |              |  | \$ 17,192.22 |
|                |  |  |  | Days reserve |  | 1,701.08     |

| Senior Ctr Sales Tax  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE            | #    | FY2024   | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------|------|----------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Weston, Deanna | 0.16 | 5,742.00 | \$ 5,914.26        |                       |                           | 453.00             | 355.00     | 1,248.00  | 260.00       | \$ 8,230.26                |
|                | 0.16 | 5,742.00 | 5,914.26           | -                     | -                         | 453.00             | 355.00     | 1,248.00  | 260.00       | \$ 8,230.26                |
| Overtime       |      | 36.80    | 500.00             |                       |                           |                    |            |           |              |                            |
| Total Salaries |      | 5,778.80 | 6,414.26           |                       |                           |                    |            |           |              |                            |

| Senior Ctr Sales Tax Revenues |                               | Department Request |                                        |
|-------------------------------|-------------------------------|--------------------|----------------------------------------|
|                               |                               | Amount             | Justification & Supporting Information |
| 175-175-4030-175              | Sales Tax - 1/16-Cent         | 169,780.00         |                                        |
| 175-175-4700-175              | Interest Earned-Senior Center | 6,970.00           |                                        |
|                               |                               | 176,750.00         |                                        |

| Senior Ctr Sales Tax Expenditures |                                | Amount    | Justification & Supporting Information                                                                                                                                                                                   |
|-----------------------------------|--------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 175-175-5010-175                  | Senior Center Salaries         | 5,915.00  |                                                                                                                                                                                                                          |
| 175-175-5020-175                  | Senior Center Overtime         | 500.00    |                                                                                                                                                                                                                          |
| 175-175-5170-175                  | Senior Center Social Security  | 491.00    |                                                                                                                                                                                                                          |
| 175-175-5180-175                  | Senior Center Retirement       | 385.00    |                                                                                                                                                                                                                          |
| 175-175-5190-175                  | Senior Center Health Insurance | 1,248.00  |                                                                                                                                                                                                                          |
| 175-175-5210-175                  | Senior Center Workers Comp.    | 281.00    |                                                                                                                                                                                                                          |
| 175-175-5260-175                  | Senior Center Prof. Services   | 7,430.00  | Pest Control \$1020, Fire Inspection \$500, Kitchen Inspection \$150, Hood Inspection \$400, Trap Cleaning \$1000, Floor cleaning \$2700, Security monitoring \$500, Hood cleaning \$1,060, AED annual inspections \$200 |
| 175-175-5300-175                  | Senior Center Ins. & Bonds     | 5,901.00  | Property Ins                                                                                                                                                                                                             |
| 175-175-5320-175                  | Senior Center Facility Maint.  | 12,000.00 |                                                                                                                                                                                                                          |
| 175-175-5330-175                  | Senior Center Equipment Maint. | 500.00    |                                                                                                                                                                                                                          |
| 175-175-5360-175                  | Senior Center Memb/Train/Trvl  | 300.00    | AED/CPR Certifications                                                                                                                                                                                                   |
| 175-175-5590-175                  | Senior Center General Supplies | 1,000.00  |                                                                                                                                                                                                                          |
| 175-175-5610-175                  | Senior Center Activity/Event   | 3,000.00  |                                                                                                                                                                                                                          |
| 175-175-5700-175                  | Senior Center Comp., Software  | 525.00    |                                                                                                                                                                                                                          |
| 175-175-6300-175                  | Senior Center Electricity      | 27,000.00 |                                                                                                                                                                                                                          |
| 175-175-6350-175                  | Senior Center Phones           | 3,248.00  | add 3 phones                                                                                                                                                                                                             |
|                                   |                                | 69,724.00 |                                                                                                                                                                                                                          |

| Senior Ctr Sales Tax Other Sources |                             | Amount | Justification & Supporting Information |
|------------------------------------|-----------------------------|--------|----------------------------------------|
| 175-000-3303-000                   | Transfer from General       |        |                                        |
| 175-000-3364-000                   | Transfer to Capital Reserve |        |                                        |

| Senior Ctr Sales Tax Other Uses |                             | Amount    | Justification & Supporting Information              |
|---------------------------------|-----------------------------|-----------|-----------------------------------------------------|
| 175-000-3285-000                | Trns to Capital Improvement | 25,000.00 | Kitchen cabinets and stove replacement \$25,000     |
| 175-000-3221-000                | Transfer to 2021 Series DS  | 53,680.00 | 2021 Debt Principal & Interest Payment & Admin Fees |
| 175-000-3264-000                | Transfer to Capital Reserve |           |                                                     |

## Parks & Recreation

Kenny Balls

Parks & Recreation Manager

[Kballs@neoshomo.org](mailto:Kballs@neoshomo.org)

The Parks Department administers and maintains Neosho Parks and other properties assigned to Parks Department under the direction of the City Manager. This includes annual budgeting, bidding projects, land management, and maintaining and training the work force. The Parks Department is funded by a 3/8 of 1% sales tax shared with the Drainage Department. This tax was approved by the Neosho voters August of 1997.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 752,431.09          | 616,102.00            | 553,639.73                 | 811,454.00             |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 8,316.00            | 5,000.00              | 6,143.00                   | 5,800.00               |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 45,424.59           | 4,900.00              | 22,417.05                  | 23,214.00              |
| Other Sources        | 508,610.26          | 115,180.00            | 86,391.00                  | 743,380.00             |
| <b>Total</b>         | <b>1,314,781.94</b> | <b>741,182.00</b>     | <b>668,590.78</b>          | <b>1,583,848.00</b>    |
|                      | \$ (0.00)           | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 294,713.18          | 331,510.00            | 236,598.96                 | 350,211.00             |
| Supplies & Materials          | 19,409.55           | 20,200.00             | 15,359.40                  | 19,000.00              |
| Maintenance & Repair          | 73,205.02           | 63,775.00             | 52,006.37                  | 69,000.00              |
| Contractual Services          | 59,110.92           | 74,593.00             | 52,543.76                  | 78,563.00              |
| Utilities                     | 28,061.96           | 28,714.00             | 19,028.65                  | 26,794.00              |
| Other Expenses                | 33,112.22           | 39,928.00             | 29,608.02                  | 36,669.00              |
| Capital                       | 401,462.20          | 276,376.00            | 277,055.10                 | 987,652.00             |
| Other Uses                    | 101,992.00          | 65,180.00             | 48,888.00                  | 66,530.00              |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,011,067.05</b> | <b>900,276.00</b>     | <b>731,088.26</b>          | <b>1,634,419.00</b>    |
|                               | \$ 0.00             | \$ -                  | \$ 0.00                    | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Professional Services** - Increase for need

**Equipment Maintenance**- Increase due to need

**Fuels and Lubricants**- Increase in fuel use \$1,500

**Wading Pool**- Increase for current need

**Insurance and Bonds**- Increase of property values 13.13% with additional Increase in rates 3%.

#### Decreases:

**Minor Equipment**- Decrease due to current needs

|                             | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-----------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels             |               |                       |                       |                        |
| Parks & Recreation Director | 1             | 1                     | 1                     | 1                      |
| Crew Leader                 | 1             | 1                     | 1                     | 1                      |
| Parks Maintenance           | 5             | 5                     | 4                     | 4                      |
| <b>DEPARTMENT TOTAL</b>     | <b>7</b>      | <b>7</b>              | <b>6</b>              | <b>6</b>               |

|                  |
|------------------|
| Parks Department |
|------------------|

| Account                                     | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Parks Department Revenues                   |                                |                      |                      |                              |                               |                              |
| 180-750-4030-750                            | Sales Tax Parks                | 752,431.09           | 611,202.00           | 549,343.49                   | 532,457.99                    | 611,202.00                   |
| 180-750-4200-750                            | Grant Revenue                  | -                    | 4,900.00             | 4,296.24                     | 5,728.32                      | 200,252.00                   |
| 180-750-4500-750                            | Park Fees                      | 2,830.00             | 2,000.00             | 2,961.00                     | 3,948.00                      | 2,800.00                     |
| 180-750-4500-752                            | RV Pad Rental                  | 5,486.00             | 3,000.00             | 3,182.00                     | 4,242.67                      | 3,000.00                     |
| 180-750-4530-750                            | Fish Food Monies               | 5,291.78             | 3,500.00             | 5,473.40                     | 7,297.87                      | 4,000.00                     |
| 180-750-4700-750                            | Interest Earned-Parks Fund     | 786.55               | 1,400.00             | 14,408.15                    | 19,210.87                     | 19,214.00                    |
| 180-750-4760-750                            | Insurance Proceeds             | 20,000.00            | -                    | -                            | -                             | -                            |
| 180-750-4800-750                            | Parks Miscellaneous            | 206.35               | -                    | 381.50                       | 381.50                        | -                            |
| 180-750-4820-750                            | Sale and Use of Property       | 2,650.52             | -                    | 2,154.00                     | 2,154.00                      | -                            |
| 180-750-4990-750                            | Donations Parks                | 16,489.39            | -                    | -                            | -                             | -                            |
| 180-750-4990-753                            | Skate Park Donations           | -                    | -                    | -                            | -                             | -                            |
| <b>Total Parks Department Revenues</b>      |                                | <b>\$ 806,171.68</b> | <b>\$ 626,002.00</b> | <b>\$ 582,199.78</b>         | <b>\$ 575,421.21</b>          | <b>\$ 840,468.00</b>         |
| Parks Department Expenditures               |                                |                      |                      |                              |                               |                              |
| 180-750-5010-750                            | Parks Salaries                 | 193,030.97           | 232,051.00           | 168,535.85                   | 224,714.47                    | 246,631.00                   |
| 180-750-5020-750                            | Parks Overtime                 | 5,758.83             | 8,000.00             | 2,844.55                     | 3,792.73                      | 6,000.00                     |
| 180-750-5030-750                            | Parks Part Time                | -                    | -                    | -                            | -                             | -                            |
| 180-750-5070-750                            | Availability Allowance         | 720.00               | 720.00               | 540.00                       | 720.00                        | 720.00                       |
| 180-750-5170-750                            | Parks Social Security          | 15,026.05            | 18,364.00            | 12,980.57                    | 17,307.43                     | 19,327.00                    |
| 180-750-5180-750                            | Parks Retirement               | 7,957.11             | 12,003.00            | 6,760.12                     | 9,013.49                      | 15,158.00                    |
| 180-750-5190-750                            | Parks Health Insurance         | 42,114.23            | 45,317.00            | 31,765.08                    | 42,353.44                     | 46,769.00                    |
| 180-750-5210-750                            | Parks Workers Compensation     | 26,830.74            | 10,515.00            | 10,316.29                    | 13,755.05                     | 11,066.00                    |
| 180-750-5260-750                            | Parks Professional Services    | 2,808.91             | 2,395.00             | 3,974.37                     | 5,299.16                      | 2,780.00                     |
| 180-750-5300-750                            | Parks Insurance and Bonds      | 15,897.01            | 27,198.00            | 25,859.39                    | 34,479.19                     | 29,073.00                    |
| 180-750-5320-750                            | Parks Facility Maintenance     | 25,550.02            | 28,000.00            | 24,051.42                    | 32,068.56                     | 30,000.00                    |
| 180-750-5320-753                            | Skatepark Facility Maintenance | -                    | 1,000.00             | 22.92                        | 30.56                         | 1,000.00                     |
| 180-750-5330-750                            | Parks Equipment Maintenance    | 17,066.21            | 18,000.00            | 15,239.22                    | 20,318.96                     | 20,000.00                    |
| 180-750-5360-750                            | Parks Member/Training/Travel   | 54.00                | 1,040.00             | 110.00                       | 146.67                        | 1,040.00                     |
| 180-750-5380-750                            | Parks Uniforms                 | 3,221.25             | 3,500.00             | 2,746.50                     | 3,662.00                      | 3,500.00                     |
| 180-750-5530-750                            | Parks Fuels/Lubricants         | 15,589.56            | 13,500.00            | 11,123.68                    | 14,831.57                     | 15,000.00                    |
| 180-750-5590-750                            | Parks General Supplies         | 9,824.05             | 10,000.00            | 7,656.45                     | 10,208.60                     | 10,000.00                    |
| 180-750-5590-752                            | RV Park Expenses               | 29.85                | 1,000.00             | 119.99                       | 159.99                        | 1,000.00                     |
| 180-750-5610-750                            | Christmas Lighting             | 3,805.85             | 4,200.00             | 3,978.79                     | 5,305.05                      | 5,000.00                     |
| 180-750-5630-750                            | Wading Pool Expenses           | 1,148.40             | 1,050.00             | 1,601.52                     | 2,135.36                      | 2,000.00                     |
| 180-750-5700-750                            | Parks Computer/Software        | 2,408.57             | 3,132.00             | 1,436.92                     | 1,915.89                      | 3,140.00                     |
| 180-750-6300-750                            | Parks Electricity              | 19,725.29            | 17,000.00            | 14,465.88                    | 19,287.84                     | 17,000.00                    |
| 180-750-6310-750                            | Parks Heating Fuels            | 2,129.21             | 2,900.00             | 1,645.05                     | 2,193.40                      | 2,900.00                     |
| 180-750-6350-750                            | Parks Phones                   | 4,574.94             | 4,814.00             | 2,955.81                     | 3,941.08                      | 2,894.00                     |
| 180-750-6390-750                            | Parks Minor Equipment          | 6,628.09             | 10,500.00            | 4,917.16                     | 6,556.21                      | 5,000.00                     |
| 180-750-6410-750                            | Flowers & Plants               | 3,485.08             | 4,725.00             | 4,231.81                     | 5,642.41                      | 5,000.00                     |
| 180-750-5331-750                            | Helicopter Maintenance         | 4,565.96             | 5,000.00             | 284.57                       | 379.43                        | 5,000.00                     |
| <b>Total Parks Department Expenditures</b>  |                                | <b>\$ 429,950.18</b> | <b>\$ 485,924.00</b> | <b>\$ 360,163.91</b>         | <b>\$ 480,218.55</b>          | <b>\$ 506,998.00</b>         |
| Parks Department Other Sources              |                                |                      |                      |                              |                               |                              |
| 180-000-3343-000                            | Transfer from Other Funds      | 468,610.26           | 50,000.00            | 37,503.00                    | 50,000.00                     | 676,850.00                   |
|                                             | Transfer from Parks Sales Tax  | -                    | -                    | -                            | -                             | -                            |
| <b>Total Parks Department Other Sources</b> |                                | <b>\$ 468,610.26</b> | <b>\$ 50,000.00</b>  | <b>\$ 37,503.00</b>          | <b>\$ 50,000.00</b>           | <b>\$ 676,850.00</b>         |
| Parks Department Other Uses                 |                                |                      |                      |                              |                               |                              |
| 180-000-3241-000                            | Transfer to GC fm Parks -Mtce  | 61,992.00            | -                    | -                            | -                             | -                            |
| 180-000-3285-000                            | Trns to Capital Improvement    | 401,462.20           | 276,376.00           | 277,055.10                   | 247,449.00                    | 987,652.00                   |
| 180-000-3290-000                            | Transfer to Parks Recreation   | 40,000.00            | 65,180.00            | 48,888.00                    | 65,180.00                     | 66,530.00                    |
| <b>Total Parks Department Other Uses</b>    |                                | <b>\$ 503,454.20</b> | <b>\$ 341,556.00</b> | <b>\$ 325,943.10</b>         | <b>\$ 312,629.00</b>          | <b>\$ 1,054,182.00</b>       |
| Change in Fund Balance                      |                                | 303,714.89           | (159,094.00)         | (62,497.48)                  | (180,988.13)                  | (50,571.00)                  |

| Account                                               | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|-------------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Parks Department Beginning Fund Balance"October 1"    |              | \$ 386,357.00    | \$ 690,071.89    | \$ 690,071.89       | \$ 690,071.89    | \$ 509,083.76    |
| Total Parks Department Funding Sources                |              | \$ 1,701,138.94  | \$ 1,431,253.89  | \$ 1,358,662.67     | \$ 1,380,677.10  | \$ 2,092,931.76  |
| Total Parks Department Funding Uses                   |              | \$ 1,011,067.05  | \$ 900,276.00    | \$ 731,088.26       | \$ 871,593.33    | \$ 1,634,419.00  |
| Parks Department Beginning Fund Balance"September 30" |              | \$ 690,071.89    | \$ 530,977.89    | \$ 627,574.41       | \$ 509,083.76    | \$ 458,512.76    |

|                |               |
|----------------|---------------|
| 90-Day Reserve | \$ 143,072.14 |
|----------------|---------------|

|              |        |
|--------------|--------|
| Days reserve | 288.43 |
|--------------|--------|

| Parks Sales Tax       |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE            | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary<br>& Benefits |
|----------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Balls, Kenneth | 1    | 52,910.52  | \$ 58,656.00       |                       | 360                       | 4,488.00           | 3,520.00   | 7,795.00  | 2,570.00     | \$ 77,389.00               |
| Townzen, Tylar | 1    | 35,499.88  | \$ 38,110.00       |                       |                           | 2,916.00           | 2,287.00   | 7,795.00  | 1,670.00     | \$ 52,778.00               |
| Martin, Joshua | 1    | 42,640.00  | \$ 44,805.00       |                       | 360                       | 3,428.00           | 2,689.00   | 7,795.00  | 1,963.00     | \$ 61,040.00               |
| Splitt, Steven | 1    | 30,000.10  | \$ 35,020.00       |                       |                           | 2,680.00           | 2,102.00   | 7,795.00  | 1,534.00     | \$ 49,131.00               |
| Harper, Jacob  | 1    | 32,999.98  | \$ 35,020.00       |                       |                           | 2,680.00           | 2,102.00   | 7,795.00  | 1,534.00     | \$ 49,131.00               |
| Lasiter, Dusty | 1    | 32,999.98  | \$ 35,020.00       |                       |                           | 2,680.00           | 2,102.00   | 7,795.00  | 1,534.00     | \$ 49,131.00               |
|                | 6.00 | 227,050.46 | 246,631.00         | -                     | 720.00                    | 18,872.00          | 14,802.00  | 46,770.00 | 10,805.00    | \$ 338,600.00              |

|                      |          |          |
|----------------------|----------|----------|
| Overtime             | 3,792.73 | 6,000.00 |
| Part Time & Seasonal | -        | -        |

|                |            |            |
|----------------|------------|------------|
| Total Salaries | 230,843.19 | 252,631.00 |
|----------------|------------|------------|

| Department Request |                                        |                                                                  |
|--------------------|----------------------------------------|------------------------------------------------------------------|
| Amount             | Justification & Supporting Information |                                                                  |
| 180-750-4030-750   | Sales Tax Parks                        | 611,202.00                                                       |
| 180-750-4200-750   | Grant Revenue                          | 200,252.00 RTP Grant - City match is 39.31%, ADA Grant \$112,500 |
| 180-750-4500-750   | Park Fees                              | 2,800.00 5 Year Historical                                       |
| 180-750-4500-752   | RV Pad Rental                          | 3,000.00 Reduced                                                 |
| 180-750-4530-750   | Fish Food Monies                       | 4,000.00 5 Year Historical                                       |
| 180-750-4700-750   | Interest Earned-Parks Fund             | 19,214.00 5 Year Historical                                      |
|                    |                                        | 840,468.00                                                       |

| Parks Sales Tax Expenditures |                                        |                                                                                                                                                  |
|------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Amount                       | Justification & Supporting Information |                                                                                                                                                  |
| 180-750-5010-750             | Parks Salaries                         | 246,631.00                                                                                                                                       |
| 180-750-5020-750             | Parks Overtime                         | 6,000.00                                                                                                                                         |
| 180-750-5030-750             | Parks Part Time                        | -                                                                                                                                                |
| 180-750-5070-750             | Availability Allowance                 | 720.00                                                                                                                                           |
| 180-750-5170-750             | Parks Social Security                  | 19,327.00                                                                                                                                        |
| 180-750-5180-750             | Parks Retirement                       | 15,158.00                                                                                                                                        |
| 180-750-5190-750             | Parks Health Insurance                 | 46,769.00                                                                                                                                        |
| 180-750-5210-750             | Parks Workers Compensation             | 11,066.00                                                                                                                                        |
| 180-750-5260-750             | Parks Professional Services            | 2,780.00 Stronghold \$1620, Fire Inspections \$200, Alarms for concession \$360, pest \$240, Security monitoring \$360 (29.99 month- new camera) |
| 180-750-5300-750             | Parks Insurance and Bonds              | 29,073.00 Property Ins                                                                                                                           |
| 180-750-5320-750             | Parks Facility Maintenance             | 30,000.00 Skid Steer rental for clearing at creek \$1,151 weekly rate                                                                            |
| 180-750-5320-753             | Skatepark Facility Maintenance         | 1,000.00                                                                                                                                         |
| 180-750-5330-750             | Parks Equipment Maintenance            | 20,000.00                                                                                                                                        |
| 180-750-5360-750             | Parks Member/Training/Travel           | 1,040.00                                                                                                                                         |
| 180-750-5380-750             | Parks Uniforms                         | 3,500.00                                                                                                                                         |
| 180-750-5530-750             | Parks Fuels/Lubricants                 | 15,000.00                                                                                                                                        |
| 180-750-5590-750             | Parks General Supplies                 | 10,000.00                                                                                                                                        |
| 180-750-5590-752             | RV Park Expenses                       | 1,000.00                                                                                                                                         |
| 180-750-5610-750             | Christmas Lighting                     | 5,000.00                                                                                                                                         |
| 180-750-5630-750             | Wading Pool Expenses                   | 2,000.00                                                                                                                                         |
| 180-750-5700-750             | Parks Computer/Software                | 3,140.00 Firewall \$210, Office 365 \$1,662.68, Cyber Software \$799.97 wifi booster \$270, server licesne upgrade \$196.90                      |
| 180-750-6300-750             | Parks Electricity                      | 17,000.00                                                                                                                                        |
| 180-750-6310-750             | Parks Heating Fuels                    | 2,900.00                                                                                                                                         |
| 180-750-6350-750             | Parks Phones                           | 2,894.00                                                                                                                                         |
| 180-750-6390-750             | Parks Minor Equipment                  | 5,000.00 hydraulic jack                                                                                                                          |
| 180-750-6410-750             | Flowers & Plants                       | 5,000.00                                                                                                                                         |
| 180-750-5331-750             | Helicopter Maintenance                 | 5,000.00                                                                                                                                         |
|                              |                                        | 506,998.00                                                                                                                                       |



Parks Sales Tax Other Sources

180-000-3343-000 Transfer from Other Funds

| Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                           |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 676,850.00 | Recreation-Pool \$46,350, Helicopter Maintenance \$5,000, Morse Park Field Lighting \$30,000, Christmas Lighting \$10,000, Asphalt two areas \$10,000, New Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architect Design Aquatic Center \$500,000, New ADA Bathroom and pavilion Scenic Park with parking and sidewalk \$225,000 split with Parks |
|            |                                                                                                                                                                                                                                                                                                                                                                                  |

180-000-3390-000 Transfer from Parks Sales Tax

Parks Sales Tax Other Uses

180-000-3241-000 Transfer to GC fm Parks -Mtce

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Parks Sales Tax Other Uses

180-000-3285-000 Trns to Capital Improvement

| Amount     | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                                |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 987,652.00 | Bicycle Trails \$152,652, City share \$60,000, Morse Park Ball Field Lighting \$30,000, Christmas Lighting Displays \$10,000, Asphalt two areas \$ 10,000, <b>New Sidewalk- ADA Restroom Scenic Park-Pavillion Scenic Park with ADA parking \$225,000</b> , Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architectural Design Aquatic Center \$500,000 |
| 66,530.00  | \$46,350 from general                                                                                                                                                                                                                                                                                                                                                                 |

180-000-3290-000 Transfer to Parks Recreation

|            |
|------------|
| Recreation |
|------------|

| Account                               | Account Name                  | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------|-------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Recreation Revenues                   |                               |                     |                     |                              |                               |                              |
| <b>Total Recreation Revenues</b>      |                               | \$ -                | \$ -                | \$ -                         | \$ -                          | \$ -                         |
| Recreation Expenditures               |                               |                     |                     |                              |                               |                              |
| 180-940-5260-940                      | Pool Professional Services    | 40,405.00           | 45,000.00           | 22,710.00                    | 45,000.00                     | 46,710.00                    |
| 180-940-5300-940                      | Parks Insurance and Bonds     | 8,486.00            | 12,796.00           | 12,130.26                    | 16,173.68                     | 13,529.00                    |
| 180-940-5320-940                      | Parks - Swim Facility Maint.  | 21,389.35           | 6,000.00            | 6,574.91                     | 8,766.55                      | 6,000.00                     |
| 180-940-5330-940                      | Swim Equipment Maintenance    | -                   | -                   | -                            | -                             | -                            |
| 180-940-5590-940                      | Parks - Swim General Supplies | 5,749.80            | 5,000.00            | 3,604.17                     | 4,805.56                      | 3,000.00                     |
| 180-940-6300-940                      | Parks - Pool Electricity      | 1,632.52            | 4,000.00            | (38.09)                      | 4,000.00                      | 4,000.00                     |
| <b>Total Recreation Expenditures</b>  |                               | <b>\$ 77,662.67</b> | <b>\$ 72,796.00</b> | <b>\$ 44,981.25</b>          | <b>\$ 78,745.79</b>           | <b>\$ 73,239.00</b>          |
| Recreation Other Sources              |                               |                     |                     |                              |                               |                              |
| 180-000-3390-000                      | Transfer from Parks Sales Tax | 40,000.00           | 65,180.00           | 48,888.00                    | 65,184.00                     | 20,180.00                    |
| 180-000-3390-000                      | transfer fm General           |                     |                     |                              |                               | 46,350.00                    |
| <b>Total Recreation Other Sources</b> |                               | <b>\$ 40,000.00</b> | <b>\$ 65,180.00</b> | <b>\$ 48,888.00</b>          | <b>\$ 65,184.00</b>           | <b>\$ 66,530.00</b>          |
| Recreation Other Uses                 |                               |                     |                     |                              |                               |                              |
| Transfer to General                   | Transfer to General           |                     |                     |                              |                               | -                            |
| <b>Total Recreation Other Uses</b>    |                               | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                |                               | (37,662.67)         | (7,616.00)          | 3,906.75                     | (13,561.79)                   | (6,709.00)                   |

**Parks Sales Tax**

## Parks Sales Tax Revenues

## Parks Sales Tax Expenditures

180-940-5260-940 Pool Professional Services  
180-940-5300-940 Parks Insurance and Bonds  
180-940-5320-940 Parks - Swim Facility Maint.  
180-940-5330-940 Swim Equipment Maintenance  
180-940-5590-940 Parks - Swim General Supplies  
180-940-6300-940 Parks - Pool Electricity

## Parks Sales Tax Other Sources

180-000-3390-000 Transfer from Parks Sales Tax  
180-000-3390-000 Transfer from Parks Sales Tax

## Parks Sales Tax Other Uses

Transfer to General Transfer to General

## Department Request

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
| -      |                                        |

| Amount    | Justification & Supporting Information                   |
|-----------|----------------------------------------------------------|
| 46,710.00 | YMCA Contract w/annual increase, Security monitoring     |
| 13,529.00 | Property Ins                                             |
| 6,000.00  |                                                          |
|           |                                                          |
| 3,000.00  | Chairs                                                   |
| 4,000.00  | invoiced to and reimbursed by the Y for 4 months of year |
|           |                                                          |
| 73,239.00 |                                                          |

| Amount    | Justification & Supporting Information    |
|-----------|-------------------------------------------|
| 20,180.00 |                                           |
| 46,350.00 | \$46,350 from General transfered to Parks |
|           |                                           |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

## Auditorium & Lampo

David Kennedy

City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

The Civic is an asset to the community and serves many functions. It may be used as one large venue, or as three separate rooms. The venue is equipped with a state-of-the-art sound and theatre lighting system providing support for a wide range of presentations. With more the 650 new seats in the balcony, the venue can accommodate more than 1,000 guests. The Civic and Lampo are funded by a .125% sales tax.

| Revenue Category     | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|----------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Taxes                | 627,012.40        | 509,334.00                  | 457,785.98                       | 509,334.00                   |
| Intergovernmental    | -                 | -                           | -                                | -                            |
| Licenses & Permits   | -                 | -                           | -                                | -                            |
| Charges for Services | -                 | -                           | -                                | -                            |
| Fines & Forfeitures  | -                 | -                           | -                                | -                            |
| Miscellaneous        | 43,199.07         | 36,000.00                   | 56,364.42                        | 67,888.00                    |
| Other Sources        | -                 | -                           | -                                | -                            |
| <b>Total</b>         | <b>670,211.47</b> | <b>545,334.00</b>           | <b>514,150.40</b>                | <b>577,222.00</b>            |
|                      | \$ (0.00)         | \$ -                        | \$ (0.00)                        | \$ -                         |

| Expense Category              | FY2023<br>Actual  | FY2024<br>Adopted<br>Budget | FY2024<br>Current YTD<br>Actuals | FY2025<br>Proposed<br>Budget |
|-------------------------------|-------------------|-----------------------------|----------------------------------|------------------------------|
| Salaries, Benefits, & Support | 32,964.82         | 69,357.00                   | 27,338.84                        | 71,691.00                    |
| Supplies & Materials          | 2,758.90          | 3,675.00                    | 2,357.97                         | 3,675.00                     |
| Maintenance & Repair          | 14,048.01         | 38,070.00                   | 18,319.53                        | 38,070.00                    |
| Contractual Services          | 32,680.66         | 33,430.00                   | 30,134.51                        | 39,810.00                    |
| Utilities                     | 64,607.77         | 70,381.00                   | 41,807.48                        | 60,811.00                    |
| Other Expenses                | -                 | -                           | -                                | -                            |
| Capital                       | 78,445.00         | 318,410.00                  | 270,245.00                       | 85,000.00                    |
| Other Uses                    | -                 | -                           | -                                | -                            |
| Debt Service                  | 206,868.77        | 213,719.00                  | 194,780.00                       | 213,718.00                   |
| <b>Total</b>                  | <b>432,373.93</b> | <b>747,042.00</b>           | <b>584,983.33</b>                | <b>512,775.00</b>            |
|                               | \$ -              | \$ -                        | \$ -                             | \$ -                         |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Professional Services** - Increase for Inspection

#### Decreases:

**Electricity-** Decrease in need

|                         | FY2023<br>Actual | FY2024<br>Adopted<br>Budget | FY2024<br>Current<br>Budget | FY2025<br>Proposed<br>Budget |
|-------------------------|------------------|-----------------------------|-----------------------------|------------------------------|
| Staffing Levels         |                  |                             |                             |                              |
| Custodian               | 0.65             | 0.65                        | 0.65                        | 0.65                         |
| Event Coordinator       |                  |                             | 0.5                         | 0.5                          |
| <b>DEPARTMENT TOTAL</b> | <b>0.65</b>      | <b>0.65</b>                 | <b>1.15</b>                 | <b>1.15</b>                  |

|            |
|------------|
| Auditorium |
|------------|

| Account                                             | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Auditorium Revenues                                 |                               |                        |                        |                              |                               |                              |
| 195-114-4500-114                                    | Lampo Rental Fees             | 14,000.00              | 13,000.00              | 16,814.27                    | 13,000.00                     | 13,000.00                    |
| 195-195-4030-195                                    | Auditorium Sales Tax          | 627,012.40             | 509,334.00             | 457,785.98                   | 610,381.31                    | 509,334.00                   |
| 195-195-4500-195                                    | Auditorium Rental Fees        | 20,525.00              | 18,500.00              | 11,812.50                    | 15,750.00                     | 18,500.00                    |
| 195-195-4520-195                                    | Auditorium Sound Fees         | 5,487.50               | 3,000.00               | 2,555.00                     | 3,406.67                      | 3,000.00                     |
| 195-195-4700-195                                    | Interest Earned-Auditorium Fd | 3,178.02               | 1,500.00               | 25,182.65                    | 33,576.87                     | 33,388.00                    |
| 195-195-4820-195                                    | Auditorium Sale of Property   | 8.55                   | -                      | -                            | -                             | -                            |
| <b>Total Auditorium Revenues</b>                    |                               | <b>\$ 670,211.47</b>   | <b>\$ 545,334.00</b>   | <b>\$ 514,150.40</b>         | <b>\$ 676,114.84</b>          | <b>\$ 577,222.00</b>         |
| Auditorium Expenditures                             |                               |                        |                        |                              |                               |                              |
| 195-114-5260-114                                    | Lampo Professional Services   | 1,948.38               | 2,200.00               | 1,716.27                     | 2,288.36                      | 2,200.00                     |
| 195-114-5300-114                                    | Lampo Insurance and Bonds     | 1,712.06               | 2,571.00               | 2,436.54                     | 3,248.72                      | 2,718.00                     |
| 195-114-5320-114                                    | Lampo Facility Maintenance    | 3,192.86               | 7,500.00               | 8,476.93                     | 11,302.57                     | 7,500.00                     |
| 195-114-5330-114                                    | Lampo Equipment Mtce          | 403.50                 | 1,050.00               | 42.01                        | 56.01                         | 1,050.00                     |
| 195-114-5590-114                                    | Lampo General Supplies        | 882.46                 | 1,050.00               | 1,013.37                     | 1,351.16                      | 1,050.00                     |
| 195-114-6300-114                                    | Lampo Electricity             | 2,198.31               | 10,000.00              | 1,444.75                     | 1,926.33                      | 2,500.00                     |
| 195-114-6310-114                                    | Lampo Heating Fuels           | 4,894.36               | 4,933.00               | 4,592.65                     | 6,123.53                      | 4,593.00                     |
| 195-195-5010-195                                    | Auditorium Salaries           | 22,766.74              | 43,926.00              | 17,893.60                    | 23,858.13                     | 45,244.00                    |
| 195-195-5020-195                                    | Auditorium Overtime           | 2,028.88               | 6,000.00               | 1,821.55                     | 2,428.73                      | 6,000.00                     |
| 195-195-5030-195                                    | Auditorium Part Time          | -                      | 2,000.00               | 97.50                        | 130.00                        | 2,000.00                     |
| 195-195-5170-195                                    | Auditorium Social Security    | 1,877.20               | 3,973.00               | 1,492.81                     | 1,990.41                      | 4,074.00                     |
| 195-195-5180-195                                    | Auditorium Retirement         | 837.05                 | 2,497.00               | 965.52                       | 1,287.36                      | 3,075.00                     |
| 195-195-5190-195                                    | Auditorium Health Insurance   | 4,541.51               | 8,686.00               | 3,763.87                     | 5,018.49                      | 8,965.00                     |
| 195-195-5210-195                                    | Auditorium Workers Comp.      | 913.44                 | 2,275.00               | 1,303.99                     | 1,738.65                      | 2,333.00                     |
| 195-195-5260-195                                    | Auditorium Prof. Services     | 7,520.81               | 7,110.00               | 5,553.53                     | 7,404.71                      | 12,110.00                    |
| 195-195-5300-195                                    | Auditorium Insurance & Bonds  | 21,499.41              | 21,549.00              | 20,428.17                    | 27,237.56                     | 22,782.00                    |
| 195-195-5320-195                                    | Auditorium Facility Maint.    | 9,774.75               | 24,520.00              | 9,800.59                     | 13,067.45                     | 24,520.00                    |
| 195-195-5330-195                                    | Auditorium Equipment Maint.   | 676.90                 | 5,000.00               | -                            | -                             | 5,000.00                     |
| 195-195-5590-195                                    | Auditorium General Supplies   | 1,876.44               | 2,625.00               | 1,344.60                     | 1,792.80                      | 2,625.00                     |
| 195-195-6300-195                                    | Auditorium Electricity        | 39,475.24              | 38,000.00              | 23,405.53                    | 31,207.37                     | 38,000.00                    |
| 195-195-6310-195                                    | Auditorium Heating Fuels      | 13,810.22              | 13,000.00              | 9,670.83                     | 12,894.44                     | 13,000.00                    |
| 195-195-6350-195                                    | Auditorium Phones             | 4,229.64               | 4,448.00               | 2,693.72                     | 3,591.63                      | 2,718.00                     |
| <b>Total Auditorium Expenditures</b>                |                               | <b>\$ 147,060.16</b>   | <b>\$ 214,913.00</b>   | <b>\$ 119,958.33</b>         | <b>\$ 159,944.44</b>          | <b>\$ 214,057.00</b>         |
| Auditorium Other Sources                            |                               |                        |                        |                              |                               |                              |
| <b>Total Auditorium Other Sources</b>               |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Auditorium Other Uses                               |                               |                        |                        |                              |                               |                              |
| 195-000-3214-000                                    | Transfer to 2014 COP          | (1,915.46)             | -                      | -                            | -                             | -                            |
| 195-000-3285-000                                    | Trns to Capital Improvement   | 78,445.00              | 318,410.00             | 270,245.00                   | 150,000.00                    | 85,000.00                    |
| 195-000-3221-000                                    | Transfer to 2021 Series DS    | 208,784.23             | 213,719.00             | 194,780.00                   | 213,719.00                    | 213,718.00                   |
| <b>Total Auditorium Other Uses</b>                  |                               | <b>\$ 285,313.77</b>   | <b>\$ 532,129.00</b>   | <b>\$ 465,025.00</b>         | <b>\$ 363,719.00</b>          | <b>\$ 298,718.00</b>         |
| Change in Fund Balance                              |                               | 237,837.54             | (201,708.00)           | (70,832.93)                  | 152,451.40                    | 64,447.00                    |
| <b>Auditorium Beginning Fund Balance"October 1"</b> |                               | <b>\$ 894,617.00</b>   | <b>\$ 1,132,454.54</b> | <b>\$ 1,132,454.54</b>       | <b>\$ 1,132,454.54</b>        | <b>\$ 1,284,905.94</b>       |
| <b>Total Auditorium Funding Sources</b>             |                               | <b>\$ 1,564,828.47</b> | <b>\$ 1,677,788.54</b> | <b>\$ 1,646,604.94</b>       | <b>\$ 1,808,569.38</b>        | <b>\$ 1,862,127.94</b>       |

| Account                                         | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|-------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Total Auditorium Funding Uses                   |              | \$ 432,373.93    | \$ 747,042.00    | \$ 584,983.33       | \$ 523,663.44    | \$ 512,775.00    |
| Auditorium Beginning Fund Balance"September 30" |              | \$ 1,132,454.54  | \$ 930,746.54    | \$ 1,061,621.61     | \$ 1,284,905.94  | \$ 1,349,352.94  |

|                |  |  |  |              |  |              |
|----------------|--|--|--|--------------|--|--------------|
| 90-Day Reserve |  |  |  |              |  | \$ 52,781.18 |
|                |  |  |  | Days reserve |  | 2,300.85     |

| Auditorium Sales Tax  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024    | FY2025 Budgeted | Incentive/ License | Availability Allowance | Social Security | Retirement | Insurance | Work Comp | Total Salary & Benefits |
|----------------------|------|-----------|-----------------|--------------------|------------------------|-----------------|------------|-----------|-----------|-------------------------|
| Weston, Deanna       | 0.65 | 23,326.00 | \$ 24,025.78    |                    |                        | 1,838.00        | 1,442.00   | 5,067.00  | 1,053.00  | \$ 33,425.78            |
| Johnson, Jessica     | 50%  | 20,600.06 | \$ 21,218.06    |                    |                        | 1,624.00        | 1,274.00   | 3,898.00  | 930.00    | \$ 28,944.06            |
|                      | 1.15 | 43,926.06 | 45,243.84       | -                  | -                      | 3,462.00        | 2,716.00   | 8,965.00  | 1,983.00  | \$ 62,369.84            |
| Overtime             |      | 6,000.00  | 6,000.00        |                    |                        |                 |            |           |           |                         |
| Part Time & Seasonal |      | 576.80    | 2,000.00        |                    |                        |                 |            |           |           |                         |
| Total Salaries       |      | 50,502.86 | 53,243.84       |                    |                        |                 |            |           |           |                         |

| Department Request |                                        |            |
|--------------------|----------------------------------------|------------|
| Amount             | Justification & Supporting Information |            |
| 195-114-4500-114   | Lampo Rental Fees                      | 13,000.00  |
| 195-195-4030-195   | Auditorium Sales Tax                   | 509,334.00 |
| 195-195-4500-195   | Auditorium Rental Fees                 | 18,500.00  |
| 195-195-4520-195   | Auditorium Sound Fees                  | 3,000.00   |
| 195-195-4700-195   | Interest Earned-Auditorium Fd          | 33,388.00  |
| 195-195-4820-195   | Auditorium Sale of Property            |            |
|                    |                                        | 577,222.00 |

| Auditorium Sales Tax Expenditures |                                        |            |
|-----------------------------------|----------------------------------------|------------|
| Amount                            | Justification & Supporting Information |            |
| 195-114-5260-114                  | Lampo Professional Services            | 2,200.00   |
| 195-114-5300-114                  | Lampo Insurance and Bonds              | 2,718.00   |
| 195-114-5320-114                  | Lampo Facility Maintenance             | 7,500.00   |
| 195-114-5330-114                  | Lampo Equipment Mtce                   | 1,050.00   |
| 195-114-5590-114                  | Lampo General Supplies                 | 1,050.00   |
| 195-114-6300-114                  | Lampo Electricity                      | 2,500.00   |
| 195-114-6310-114                  | Lampo Heating Fuels                    | 4,593.00   |
| 195-195-5010-195                  | Auditorium Salaries                    | 45,244.00  |
| 195-195-5020-195                  | Auditorium Overtime                    | 6,000.00   |
| 195-195-5030-195                  | Auditorium Part Time                   | 2,000.00   |
| 195-195-5170-195                  | Auditorium Social Security             | 4,074.00   |
| 195-195-5180-195                  | Auditorium Retirement                  | 3,075.00   |
| 195-195-5190-195                  | Auditorium Health Insurance            | 8,965.00   |
| 195-195-5210-195                  | Auditorium Workers Comp.               | 2,333.00   |
| 195-195-5260-195                  | Auditorium Prof. Services              | 12,110.00  |
| 195-195-5300-195                  | Auditorium Insurance & Bonds           | 22,782.00  |
| 195-195-5320-195                  | Auditorium Facility Maint.             | 24,520.00  |
| 195-195-5330-195                  | Auditorium Equipment Maint.            | 5,000.00   |
| 195-195-5590-195                  | Auditorium General Supplies            | 2,625.00   |
| 195-195-6300-195                  | Auditorium Electricity                 | 38,000.00  |
| 195-195-6310-195                  | Auditorium Heating Fuels               | 13,000.00  |
| 195-195-6350-195                  | Auditorium Phones                      | 2,718.00   |
|                                   |                                        | 214,057.00 |

| Auditorium Sales Tax Other Sources |                                        |  |
|------------------------------------|----------------------------------------|--|
| Amount                             | Justification & Supporting Information |  |
|                                    |                                        |  |

Auditorium Sales Tax Other Uses  
195-000-3285-000      Trns to Capital Improvement  
  
195-000-3221-000      Transfer to 2021 Series DS

| Amount     | Justification & Supporting Information                                                                                |
|------------|-----------------------------------------------------------------------------------------------------------------------|
| 85,000.00  | Lampo Rigid Conrete Flooring \$25000, Auditorium table and chairs \$60,000, parking lot West of auditorium discussion |
| 213,718.00 | 2021 Debt Principal & Interest Payment & Admin Fees                                                                   |
|            |                                                                                                                       |



|                     |
|---------------------|
| Capital Improvement |
|---------------------|

| Account                                                         | Account Name                                            | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------------|---------------------------------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Capital Improvement Revenues                                    |                                                         |                        |                        |                              |                               |                              |
| 300-300-4030-300                                                | Capital Improvement Sales Tax                           | 418,017.17             | 336,204.00             | 305,190.36                   | 406,920.48                    | 336,204.00                   |
| 300-300-4700-300                                                | Interest Earned Capital                                 | 1,491.27               | 1,200.00               | 11,338.40                    | 15,117.87                     | 13,969.00                    |
| 300-300-4800-300                                                | Miscellaneous Revenue                                   | 133,500.00             | -                      | -                            | -                             | -                            |
| <b>Total Capital Improvement Revenues</b>                       |                                                         | <b>\$ 553,008.44</b>   | <b>\$ 337,404.00</b>   | <b>\$ 316,528.76</b>         | <b>\$ 422,038.35</b>          | <b>\$ 350,173.00</b>         |
| Capital Improvement Expenditures                                |                                                         |                        |                        |                              |                               |                              |
| 300-300-5790-300                                                | Capital Improvement/Purchases                           | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-111                                                | Capital Improvement/Purchases-City Clerk                | 4,051.96               | 52,233.00              | 52,331.42                    | 52,233.00                     | 6,500.00                     |
| 300-300-5790-112                                                | Capital Improvement/Purchases-General Admin             | -                      | 209,630.00             | 197,630.00                   | 209,630.00                    | 470,000.00                   |
| 300-300-5790-115                                                | Capital Improvement/Purchases-Development               | -                      | 12,434.00              | 11,177.51                    | 12,434.00                     | -                            |
| 300-300-5790-118                                                | Capital Improvement/Purchases-Recycle                   | 113,778.00             | 68,000.00              | 42,166.78                    | 68,000.00                     | 65,261.00                    |
| 300-300-5790-120                                                | Capital Improvement/Purchases-Police                    | 476,905.13             | 151,000.00             | 259,719.57                   | 151,000.00                    | 80,000.00                    |
| 300-300-5790-141                                                | Capital Improvement/Purchases-IT                        | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-143                                                | Capital Improvement/Purchases-Fleet Maintenance         | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-144                                                | Capital Improvement/Purchases-Emergency Management      | -                      | -                      | -                            | -                             | -                            |
| 300-300-5790-160                                                | Capital Improvement/Purchases-Airport                   | 339,298.01             | 727,538.00             | 481,713.09                   | 727,538.00                    | 754,000.00                   |
| 300-300-5790-130                                                | Capital Improvement/Purchases-Fire                      | 1,193,897.63           | 640,345.00             | 289,000.84                   | 640,345.00                    | 484,985.00                   |
| 300-300-5790-990                                                | Capital Improvement/Purchases-Drainage                  | 332,543.75             | 2,084,114.00           | 1,388,852.84                 | 2,084,114.00                  | 7,703,160.00                 |
| 300-300-5790-175                                                | Capital Improvement/Purchases-Senior Center             | 126,040.59             | 43,000.00              | 24,345.00                    | 43,000.00                     | 25,000.00                    |
| 300-300-5790-195                                                | Capital Improvement/Purchases-Auditorium                | 78,445.00              | 318,410.00             | 295,440.00                   | 318,410.00                    | 85,000.00                    |
| 300-300-5790-750                                                | Capital Improvement/Purchases-Parks & Recreation        | 401,462.20             | 276,376.00             | 277,055.10                   | 276,376.00                    | 987,652.00                   |
| 300-300-5790-430                                                | Capital Improvement/Purchases-Golf Course               | 188,765.19             | 275,367.00             | 166,073.80                   | 275,367.00                    | 300,000.00                   |
| 300-300-5790-800                                                | Capital Improvement/Purchases-Street                    | 240,036.50             | 596,036.00             | 273,955.54                   | 596,036.00                    | 229,500.00                   |
| 300-300-5790-204                                                | Capital Improvement/Purchases-Cemetery                  | 72,711.78              | 91,107.00              | 41,400.30                    | 91,107.00                     | 39,000.00                    |
| <b>Total Capital Improvement Expenditures</b>                   |                                                         | <b>\$ 3,567,935.74</b> | <b>\$ 5,545,590.00</b> | <b>\$ 3,800,861.79</b>       | <b>\$ 5,545,590.00</b>        | <b>\$ 11,230,058.00</b>      |
| Capital Improvement Other Sources                               |                                                         |                        |                        |                              |                               |                              |
| 300-000-3385-112                                                | Transfer to Capital Improvement/Purchases-General Adm   | -                      | 209,630.00             | 197,630.00                   | 209,630.00                    | 470,000.00                   |
| 300-000-3385-111                                                | Transfer to Capital Improvement/Purchases-City Clerk    | 4,051.96               | 52,233.00              | 52,331.42                    | 52,233.00                     | 6,500.00                     |
| 300-000-3385-115                                                | Transfer to Capital Improvement/Purchases-Development   | -                      | 12,434.00              | 11,177.51                    | 12,434.00                     | -                            |
| 300-000-3385-118                                                | Transfer to Capital Improvement/Purchases-Recycle Cent  | 113,778.00             | 68,000.00              | 42,166.78                    | 68,000.00                     | 65,261.00                    |
| 300-000-3385-120                                                | Transfer to Capital Improvement/Purchases-Police Depart | 359,420.12             | 151,000.00             | 259,719.57                   | 151,000.00                    | 80,000.00                    |
| 300-000-3385-160                                                | Transfer to Capital Improvement/Purchases-Airport       | 50,136.19              | 727,538.00             | 481,713.09                   | 727,538.00                    | 754,000.00                   |
| 300-000-3385-130                                                | Transfer to Capital Improvement/Purchases-Fire Departm  | 1,086,397.64           | 640,345.00             | 289,000.84                   | 640,345.00                    | 484,985.00                   |
| 300-000-3385-170                                                | Transfer to Capital Improvement/Purchases-Drainage      | 284,955.57             | 2,084,114.00           | 1,388,852.84                 | 2,084,114.00                  | 7,703,160.00                 |
| 300-000-3385-175                                                | Transfer to Capital Improvement/Purchases-Senior Center | 118,277.59             | 43,000.00              | 24,345.00                    | 43,000.00                     | 25,000.00                    |
| 300-000-3385-180                                                | Transfer to Capital Improvement/Purchases-Parks & Recr  | 401,462.20             | 276,376.00             | 277,055.10                   | 276,376.00                    | 987,652.00                   |
| 300-000-3385-195                                                | Transfer to Capital Improvement/Purchases-Auditorium    | 78,445.00              | 318,410.00             | 295,440.00                   | 318,410.00                    | 85,000.00                    |
| 300-000-3385-204                                                | Transfer to Capital Improvement/Purchases-IOOF Cemete   | 72,711.78              | 91,107.00              | 41,400.30                    | 91,107.00                     | 39,000.00                    |
| 300-000-3385-450                                                | Transfer to Capital Improvement/Purchases-Golf Course   | 194,664.79             | 275,367.00             | 178,073.80                   | 275,367.00                    | 300,000.00                   |
| 300-000-3385-800                                                | Transfer to Capital Improvement/Purchases-Streets Depar | 175,188.50             | 596,036.00             | 261,955.54                   | 596,036.00                    | 229,500.00                   |
| 300-000-3385-000                                                | Transfer fm Other Funds                                 | (830.40)               | -                      | -                            | -                             | -                            |
| 300-000-3303-000                                                | Transfer fm General                                     | -                      | -                      | -                            | -                             | -                            |
| <b>Total Capital Improvement Other Sources</b>                  |                                                         | <b>\$ 2,938,658.94</b> | <b>\$ 5,545,590.00</b> | <b>\$ 3,800,861.79</b>       | <b>\$ 5,545,590.00</b>        | <b>\$ 11,230,058.00</b>      |
| Capital Improvement Other Uses                                  |                                                         |                        |                        |                              |                               |                              |
| 300-000-3242-000                                                | Transfer to Golf Cap Imp Debt                           | 251,952.00             | 251,950.00             | 188,964.00                   | 251,950.00                    | 441,738.00                   |
| 300-000-3243-000                                                | Transfer to Parks Department                            | -                      | -                      | -                            | -                             | -                            |
| <b>Total Capital Improvement Other Uses</b>                     |                                                         | <b>\$ 251,952.00</b>   | <b>\$ 251,950.00</b>   | <b>\$ 188,964.00</b>         | <b>\$ 251,950.00</b>          | <b>\$ 441,738.00</b>         |
| Change in Fund Balance                                          |                                                         | (328,220.36)           | 85,454.00              | 127,564.76                   | 170,088.35                    | (91,565.00)                  |
| <b>Capital Improvement Beginning Fund Balance"October 1"</b>    |                                                         | <b>\$ 482,736.00</b>   | <b>\$ 154,515.64</b>   | <b>\$ 154,515.64</b>         | <b>\$ 154,515.64</b>          | <b>\$ 324,603.99</b>         |
| <b>Total Capital Improvement Funding Sources</b>                |                                                         | <b>\$ 3,974,403.38</b> | <b>\$ 6,037,509.64</b> | <b>\$ 4,271,906.19</b>       | <b>\$ 6,122,143.99</b>        | <b>\$ 11,904,834.99</b>      |
| <b>Total Capital Improvement Funding Uses</b>                   |                                                         | <b>\$ 3,819,887.74</b> | <b>\$ 5,797,540.00</b> | <b>\$ 3,989,825.79</b>       | <b>\$ 5,797,540.00</b>        | <b>\$ 11,671,796.00</b>      |
| <b>Capital Improvement Beginning Fund Balance"September 30"</b> |                                                         | <b>\$ 154,515.64</b>   | <b>\$ 239,969.64</b>   | <b>\$ 282,080.40</b>         | <b>\$ 324,603.99</b>          | <b>\$ 233,038.99</b>         |

90-Day Reserve

|      |
|------|
| \$ - |
|------|

## Capital Improvement Sales Tax

### Capital Improvement Sales Tax Revenues

300-300-4030-300 Capital Improvement Sales Tax  
300-300-4700-300 Interest Earned-Econ Develop

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 336,204.00         |                                        |
| 13,969.00          |                                        |
| 350,173.00         |                                        |

### Capital Improvement Sales Tax Expenditures

300-300-5790-300 Capital Improvement/Purchases  
300-300-5790-111 Capital Improvement/Purchases-City Clerk  
300-300-5790-112 Capital Improvement/Purchases-General Admin  
300-300-5790-115 Capital Improvement/Purchases-Development  
300-300-5790-118 Capital Improvement/Purchases-Recycle  
300-300-5790-120 Capital Improvement/Purchases-Police  
300-300-5790-141 Capital Improvement/Purchases-IT  
300-300-5790-143 Capital Improvement/Purchases-Fleet Maintenance  
300-300-5790-144 Capital Improvement/Purchases-Emergency Management  
300-300-5790-160 Capital Improvement/Purchases-Airport

| Amount        | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                        |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6,500.00      | E-Code 360 hyperlink code updates                                                                                                                                                                                                                                                                                                                                             |
| 470,000.00    | City Hall Façade, City Hall HVAC, Van replacement vehicle                                                                                                                                                                                                                                                                                                                     |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| 65,261.00     | Skid Steer \$63,238. Food Waste Hopper \$2,023                                                                                                                                                                                                                                                                                                                                |
| 80,000.00     | Patrol Cars 2 \$80,000 would allow \$5000 trade in each                                                                                                                                                                                                                                                                                                                       |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| -             |                                                                                                                                                                                                                                                                                                                                                                               |
| 754,000.00    | T-Hanger - \$680,000 with City funds of \$63,000, Slurry Seal Terry Johnson \$11,000                                                                                                                                                                                                                                                                                          |
| 484,985.00    | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000                                                                                                                                                                                                                                            |
| 7,703,160.00  | Stratford & Freeman Street (DED project) \$2,390,497, DNR ARPA Cost Share \$4,952,664, Land Purchase retention \$300,000, Mower replacement \$20,000, 20% match retention pond \$40,000                                                                                                                                                                                       |
| 25,000.00     |                                                                                                                                                                                                                                                                                                                                                                               |
| 85,000.00     |                                                                                                                                                                                                                                                                                                                                                                               |
| 987,652.00    | Bicycle Trails \$152,652, City share \$60,000, Morse Park Ball Field Lighting \$30,000, Christmas Lighting Displays \$10,000, Asphalt two areas \$ 10,000, New Sidewalk- ADA Restroom Scenic Park-Pavillion Scenic Park with ADA parking \$225,000, Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architectural Design Aquatic Center \$500,000 |
| 300,000.00    | 9 holes New Irrigation System incl. lines, heads                                                                                                                                                                                                                                                                                                                              |
| 229,500.00    | Trailer for mini excavator \$15,000 (surplus 2), snow box for skid steer \$7,000, electricity and lights in storagee barn 50% share \$7,500, ADA curbing \$200,000                                                                                                                                                                                                            |
| 39,000.00     | Cemetery Roads \$35,000, Surveyor \$4,000                                                                                                                                                                                                                                                                                                                                     |
| 11,230,058.00 |                                                                                                                                                                                                                                                                                                                                                                               |

### Capital Improvement Sales Tax Other Sources

300-000-3385-112 Transfer to Capital Improvement/Purchases-General Admin  
300-000-3385-111 Transfer to Capital Improvement/Purchases-City Clerk  
300-000-3385-115 Transfer to Capital Improvement/Purchases-Development  
300-000-3385-118 Transfer to Capital Improvement/Purchases-Recycle Center  
300-000-3385-120 Transfer to Capital Improvement/Purchases-Police Department  
300-000-3385-160 Transfer to Capital Improvement/Purchases-Airport  
300-000-3385-130 Transfer to Capital Improvement/Purchases-Fire Department  
300-000-3385-170 Transfer to Capital Improvement/Purchases-Drainage  
300-000-3385-175 Transfer to Capital Improvement/Purchases-Senior Center  
300-000-3385-180 Transfer to Capital Improvement/Purchases-Parks & Recreation

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                                                                                        |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 470,000.00   | City Hall Façade, City Hall HVAC, Van replacement vehicle                                                                                                                                                                                                                                                                                                                     |
| 6,500.00     | E-Code 360 hyperlink code updates                                                                                                                                                                                                                                                                                                                                             |
| -            |                                                                                                                                                                                                                                                                                                                                                                               |
| 65,261.00    | Skid Steer \$63,238. Food Waste Hopper \$2,023                                                                                                                                                                                                                                                                                                                                |
| 80,000.00    | Patrol Cars 2 \$80,000 would allow \$5000 trade in each                                                                                                                                                                                                                                                                                                                       |
| 754,000.00   | T-Hanger - \$680,000 with City funds of \$63,000, Slurry Seal Terry Johnson \$11,000                                                                                                                                                                                                                                                                                          |
| 484,985.00   | Rescue 4 pay off \$252,080, Extrication Equipment \$32905, Rope Rescue Equipment \$15,000, Station 2 replacement windows \$185,000                                                                                                                                                                                                                                            |
| 7,703,160.00 | Stratford & Freeman Street (DED project) \$2,390,497, DNR ARPA Cost Share \$4,952,664, Land Purchase retention \$300,000, Mower replacement \$20,000, 20% match retention pond \$40,000                                                                                                                                                                                       |
| 25,000.00    |                                                                                                                                                                                                                                                                                                                                                                               |
| 987,652.00   | Bicycle Trails \$152,652, City share \$60,000, Morse Park Ball Field Lighting \$30,000, Christmas Lighting Displays \$10,000, Asphalt two areas \$ 10,000, New Sidewalk- ADA Restroom Scenic Park-Pavillion Scenic Park with ADA parking \$225,000, Truck replace '98 Ford \$50,000, Repair Rock Wall Big Spring Park \$10,000, Architectural Design Aquatic Center \$500,000 |

## Capital Improvement Sales Tax Other Sources

| Amount           | Justification & Supporting Information                                                                                                                            |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 300-000-3385-195 | Transfer to Capital Improvement/Purchases-Auditorium                                                                                                              |
| 85,000.00        |                                                                                                                                                                   |
| 300-000-3385-204 | Transfer to Capital Improvement/Purchases-IOOF Cemetery                                                                                                           |
| 39,000.00        | Cemetery Roads \$35,000, Surveyor \$4,000                                                                                                                         |
| 300-000-3385-450 | Transfer to Capital Improvement/Purchases-Golf Course                                                                                                             |
| 300,000.00       | 9 holes New Irrigation System incl. lines, heads                                                                                                                  |
| 300-000-3385-800 | Transfer to Capital Improvement/Purchases-Streets Department                                                                                                      |
|                  | Trailer for mini excavator \$15,000 (surplus 2), snow box for skid steer \$7,000, electricity and lights in storage barn 50% share \$7,500, ADA curbing \$200,000 |
| 229,500.00       |                                                                                                                                                                   |
| 300-000-3385-000 | Transfer fm Other Funds                                                                                                                                           |
| 300-000-3303-000 | Transfer fm General                                                                                                                                               |
| 11,230,058.00    | -                                                                                                                                                                 |

## Capital Improvement Sales Tax Other Uses

| Amount           | Justification & Supporting Information |
|------------------|----------------------------------------|
| 300-000-3220-000 | Transfer to 2012A&B Fund               |
| 300-000-3242-000 | Transfer to Golf Cap Imp Debt          |
| 300-000-3243-000 | Transfer to Parks Department           |
|                  |                                        |

Hotel/Motel

| Account                                                 | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Hotel/Motel Revenues                                    |                                |                      |                      |                              |                               |                              |
| 310-310-4040-330                                        | Motel Tax Revenue              | 93,527.17            | 95,317.00            | 80,641.93                    | 107,522.57                    | 95,317.00                    |
| 310-310-4700-330                                        | Interest Earned-Hotel/Motel    | 1,147.09             | 1,000.00             | 6,929.66                     | 9,239.55                      | 8,992.00                     |
| <b>Total Hotel/Motel Revenues</b>                       |                                | <b>\$ 94,674.26</b>  | <b>\$ 96,317.00</b>  | <b>\$ 87,571.59</b>          | <b>\$ 116,762.12</b>          | <b>\$ 104,309.00</b>         |
| Hotel/Motel Expenditures                                |                                |                      |                      |                              |                               |                              |
| 310-310-5240-330                                        | Motel Promotions               | 76,598.72            | 102,738.00           | 79,384.01                    | 105,845.35                    | 68,200.00                    |
| 310-310-6300-310                                        | Hotel Motel Electricity        | 138.11               | 600.00               | 443.45                       | 591.27                        | 600.00                       |
| 310-310-6520-330                                        | Easter Event                   | 305.00               | 305.00               | 320.00                       | 320.00                        | 320.00                       |
| <b>Total Hotel/Motel Expenditures</b>                   |                                | <b>\$ 77,041.83</b>  | <b>\$ 103,643.00</b> | <b>\$ 80,147.46</b>          | <b>\$ 106,756.61</b>          | <b>\$ 69,120.00</b>          |
| Hotel/Motel Other Sources                               |                                |                      |                      |                              |                               |                              |
| <b>Total Hotel/Motel Other Sources</b>                  |                                | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Hotel/Motel Other Uses                                  |                                |                      |                      |                              |                               |                              |
| 310-000-3210-000                                        | Tran to General Adm 3% Adm Cst | 2,832.00             | 2,860.00             | 2,151.00                     | 2,860.00                      | 2,860.00                     |
| 310-000-3255-000                                        | Transfer to -Celebrate         | 15,000.00            | 19,500.00            | 19,500.00                    | 19,500.00                     | 7,500.00                     |
| 310-000-3256-000                                        | Tran to -Fall Festival         | 15,000.00            | 13,000.00            | 13,000.00                    | 13,000.00                     | 15,000.00                    |
| 310-000-3211-000                                        | Transfer to Gen. PR Coord      | -                    | -                    | -                            | -                             | -                            |
| <b>Total Hotel/Motel Other Uses</b>                     |                                | <b>\$ 32,832.00</b>  | <b>\$ 35,360.00</b>  | <b>\$ 34,651.00</b>          | <b>\$ 35,360.00</b>           | <b>\$ 25,360.00</b>          |
| Change in Fund Balance                                  |                                | (15,199.57)          | (42,686.00)          | (27,226.87)                  | (25,354.49)                   | 9,829.00                     |
| <b>Hotel/Motel Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 308,242.00</b> | <b>\$ 293,042.43</b> | <b>\$ 293,042.43</b>         | <b>\$ 293,042.43</b>          | <b>\$ 267,687.94</b>         |
| <b>Total Hotel/Motel Funding Sources</b>                |                                | <b>\$ 402,916.26</b> | <b>\$ 389,359.43</b> | <b>\$ 380,614.02</b>         | <b>\$ 409,804.55</b>          | <b>\$ 371,996.94</b>         |
| <b>Total Hotel/Motel Funding Uses</b>                   |                                | <b>\$ 109,873.83</b> | <b>\$ 139,003.00</b> | <b>\$ 114,798.46</b>         | <b>\$ 142,116.61</b>          | <b>\$ 94,480.00</b>          |
| <b>Hotel/Motel Beginning Fund Balance"September 30"</b> |                                | <b>\$ 293,042.43</b> | <b>\$ 250,356.43</b> | <b>\$ 265,815.56</b>         | <b>\$ 267,687.94</b>          | <b>\$ 277,516.94</b>         |

90-Day Reserve

\$ 17,043.29

Days reserve

1,465.48

## Hotel/Motel

### Hotel/Motel Revenues

310-310-4040-330 Motel Tax Revenue  
310-310-4700-330 Interest Earned-Hotel/Motel

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 95,317.00          |                                        |
| 8,992.00           |                                        |
| 104,309.00         |                                        |

### Hotel/Motel Expenditures

310-310-5240-330 Motel Promotions  
  
310-310-6300-310 Hotel Motel Electricity  
310-310-6520-330 Easter Event

| Amount    | Justification & Supporting Information                                                                                                                                                                                                                                  |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 68,200.00 | Crowder College Roughrider Scholarship Rodeo \$2,000; Neosho Disc Golf Tournament \$3,000; Neosho Fireworks \$20000; Neosho Arts Council ArtCon \$8,000, Digital advertising \$5,700, Chamber Membership \$20,000, Neosho Fair \$4,500, Neosho Public Relations \$5,000 |
| 600.00    | Square Electric                                                                                                                                                                                                                                                         |
| 320.00    |                                                                                                                                                                                                                                                                         |
| 69,120.00 |                                                                                                                                                                                                                                                                         |

### Hotel/Motel Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

### Hotel/Motel Other Uses

310-000-3210-000 Tran to General Adm 3% Adm Cst  
310-000-3255-000 Transfer to -Celebrate  
310-000-3256-000 Tran to -Fall Festival  
310-000-3211-000 Transfer to Gen. PR Coord

| Amount    | Justification & Supporting Information |
|-----------|----------------------------------------|
| 2,860.00  |                                        |
| 7,500.00  |                                        |
| 15,000.00 |                                        |
|           |                                        |

## Golf Course

David Kennedy  
City Manager

[D.kennedy@neoshomo.org](mailto:D.kennedy@neoshomo.org)

The Neosho Municipal Golf Course is a beautiful 18-hole facility with two different nine-hole layouts. The original nine-hole course was constructed in 1924 by famous golf architect Perry Maxwell. March 2024 Contract with Maxim Golf, LLC for Golf Course Management.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                   | -                     | -                          | -                      |
| Intergovernmental    | -                   | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 600,958.56          | 439,900.00            | 124,793.00                 | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 1,623.82            | -                     | 188,142.88                 | 575,000.00             |
| Other Sources        | 509,179.09          | 371,950.00            | 188,964.00                 | 541,738.00             |
| <b>Total</b>         | <b>1,111,761.47</b> | <b>811,850.00</b>     | <b>501,899.88</b>          | <b>1,116,738.00</b>    |
|                      | \$ -                | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 277,436.46        | 327,641.00            | 88,533.52                  | -                      |
| Supplies & Materials          | 64,338.39         | 70,300.00             | 47,071.13                  | -                      |
| Maintenance & Repair          | 62,859.11         | 68,675.00             | 23,477.37                  | -                      |
| Contractual Services          | 32,720.48         | 35,202.00             | 140,676.84                 | 615,419.00             |
| Utilities                     | 31,863.16         | 32,670.00             | 13,815.05                  | -                      |
| Other Expenses                | 86,167.52         | 81,779.00             | 18,647.96                  | 270.00                 |
| Capital                       | 222,874.15        | 294,174.00            | 178,073.80                 | 300,000.00             |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | 218,577.38        | 251,950.00            | 233,075.55                 | 241,738.00             |
| <b>Total</b>                  | <b>996,836.65</b> | <b>1,162,391.00</b>   | <b>743,371.22</b>          | <b>1,157,427.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Contracted Services:** Golf Management Fees

**All revenue and expense reported under 1 line with Management Company**

**March 2024 contracted with Management Company**

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| ProShop Supervisor      |               | 1                     | 1                     | 1                      |
| Grounds Supervisor      |               | 1                     | 1                     | 1                      |
| Lead Greenskeeper       |               | 1                     | 1                     | 1                      |
| Golf Manager            |               |                       | 1                     | 1                      |
| <b>DEPARTMENT TOTAL</b> |               | <b>3</b>              | <b>4</b>              | <b>4</b>               |
|                         |               |                       |                       | <b>0</b>               |

|             |
|-------------|
| Golf Course |
|-------------|

| Account                                | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------|--------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Golf Course Revenues                   |                                |                      |                      |                              |                               |                              |
| 450-150-4350-430                       | Golf Course Fees               | 176,674.10           | 145,000.00           | 45,495.00                    | 60,660.00                     | -                            |
| 450-150-4360-430                       | Golf Cart Rentals              | 174,931.75           | 130,000.00           | 44,408.00                    | 59,210.67                     | -                            |
| 450-150-4370-430                       | Passes for Fees                | 103,791.48           | 80,000.00            | 3,897.00                     | 5,196.00                      | -                            |
| 450-150-4380-430                       | Pro Shop Revenue               | 45,395.75            | 30,000.00            | 10,991.75                    | 14,655.67                     | -                            |
| 450-150-4390-430                       | Driving Range Revenue          | 10,496.00            | 5,000.00             | 2,199.00                     | 2,932.00                      | -                            |
| 450-150-4420-430                       | Golf Concessions Revenue       | 53,781.48            | 35,000.00            | 12,202.25                    | 16,269.67                     | -                            |
| 450-150-4500-430                       | Community Room Rental          | -                    | -                    | -                            | -                             | -                            |
| 450-150-4700-430                       | Interest Earned-Golf Course    | 260.57               | -                    | 2,182.60                     | 2,910.13                      | -                            |
| 450-150-4760-430                       | Insurance Proceeds             | -                    | -                    | 19,000.00                    | 25,333.33                     | -                            |
| 450-150-4800-430                       | Golf Course Miscellaneous      | 1,363.25             | -                    | 166,960.28                   | 222,613.71                    | 575,000.00                   |
| 450-150-4820-430                       | Sale of Property               | -                    | -                    | -                            | -                             | -                            |
| 450-150-4993-430                       | Advertising Revenue            | 250.00               | 500.00               | -                            | -                             | -                            |
| 450-150-4352-430                       | Tournament Fees                | 35,638.00            | 14,400.00            | 5,600.00                     | 7,466.67                      | -                            |
| <b>Total Golf Course Revenues</b>      |                                | <b>\$ 602,582.38</b> | <b>\$ 439,900.00</b> | <b>\$ 312,935.88</b>         | <b>\$ 417,247.84</b>          | <b>\$ 575,000.00</b>         |
| Golf Course Expenditures               |                                |                      |                      |                              |                               |                              |
| 450-150-5010-430                       | Golf Course Salaries           | 118,839.17           | 161,397.00           | 40,095.23                    | 161,397.00                    | -                            |
| 450-150-5020-430                       | Golf Course Overtime           | 6,075.47             | 5,000.00             | 1,877.91                     | 2,503.88                      | -                            |
| 450-150-5030-430                       | Golf Course Part Time          | 95,744.37            | 87,128.00            | 33,420.26                    | 44,560.35                     | -                            |
| 450-150-5070-430                       | Availability Allowance         | 360.00               | 360.00               | 30.00                        | 40.00                         | -                            |
| 450-150-5170-430                       | Golf Course Social Security    | 16,838.95            | 19,395.00            | 5,741.26                     | 15,947.28                     | -                            |
| 450-150-5180-430                       | Golf Course Retirement         | 3,800.55             | 8,320.00             | 335.22                       | 446.96                        | -                            |
| 450-150-5190-430                       | Golf Course Health Insurance   | 20,742.38            | 30,211.00            | 3,735.58                     | 4,980.77                      | -                            |
| 450-150-5210-430                       | Golf Course Workers Comp.      | 14,513.27            | 11,105.00            | 3,185.76                     | 4,247.68                      | -                            |
| 450-150-5260-430                       | Golf Course Prof. Services     | 12,221.26            | 10,511.00            | 118,620.80                   | 158,161.07                    | 554,391.00                   |
| 450-150-5265-430                       | Golf Mngmt Contracted Services | -                    | -                    | 3,667.00                     | 4,889.33                      | 45,000.00                    |
| 450-150-5270-430                       | Golf Course Credit Card Fees   | 11,004.20            | 9,450.00             | 3,961.22                     | 5,281.63                      | -                            |
| 450-150-5300-430                       | Golf Insurance & Bonds         | 9,495.02             | 15,241.00            | 14,427.82                    | 19,237.09                     | 16,028.00                    |
| 450-150-5310-430                       | Golf Course Concession Cost    | 25,242.26            | 31,500.00            | 6,124.80                     | 8,166.40                      | -                            |
| 450-150-5314-430                       | Golf Course Accessories        | 36,813.98            | 26,250.00            | 4,932.56                     | 6,576.75                      | -                            |
| 450-150-5325-430                       | Grounds Maintenance            | 40,980.34            | 40,000.00            | 162.46                       | 216.61                        | -                            |
| 450-150-5330-430                       | Golf Equipment Maintenance     | 9,814.03             | 15,000.00            | 14,932.62                    | 19,910.16                     | -                            |
| 450-150-5320-430                       | Golf Facility Maintenance      | 8,351.19             | 10,000.00            | 7,401.90                     | 9,869.20                      | -                            |
| 450-150-5335-430                       | Golf Cart Maintenance          | 3,713.55             | 3,675.00             | 980.39                       | 1,307.19                      | -                            |
| 450-150-5350-430                       | Driving Range Expense          | 1,889.26             | 1,575.00             | -                            | -                             | -                            |
| 450-150-5360-430                       | Golf Course Member/Train/Trvl  | -                    | 1,050.00             | 80.00                        | 106.67                        | -                            |
| 450-150-5380-430                       | Uniforms                       | 522.30               | 3,675.00             | 32.30                        | 43.07                         | -                            |
| 450-150-5530-430                       | Golf Course Fuels/Lubricants   | 20,983.11            | 21,000.00            | 7,017.22                     | 9,356.29                      | -                            |
| 450-150-5540-430                       | Golf Course Chemicals          | 55,549.53            | 60,000.00            | 45,695.44                    | 60,927.25                     | -                            |
| 450-150-5590-430                       | Golf Course General Supplies   | 5,165.76             | 6,300.00             | 1,375.69                     | 1,834.25                      | -                            |
| 450-150-5700-430                       | Golf Course Computer/Software  | 1,238.91             | 1,454.00             | 573.38                       | 764.51                        | 270.00                       |
| 450-150-6300-430                       | Golf Course Electricity        | 26,942.87            | 27,000.00            | 10,597.13                    | 14,129.51                     | -                            |
| 450-150-6350-430                       | Golf Course Phones             | 4,920.29             | 5,670.00             | 3,217.92                     | 4,290.56                      | -                            |
| 450-150-6380-430                       | Lease Payments                 | 28,209.36            | 18,807.00            | -                            | -                             | -                            |
| 450-150-5610-430                       | City Tournament Expense        | 3,623.10             | 4,000.00             | -                            | -                             | -                            |
| <b>Total Golf Course Expenditures</b>  |                                | <b>\$ 583,594.48</b> | <b>\$ 635,074.00</b> | <b>\$ 332,221.87</b>         | <b>\$ 559,191.46</b>          | <b>\$ 615,689.00</b>         |
| Golf Course Other Sources              |                                |                      |                      |                              |                               |                              |
| 450-000-3340-000                       | Transfer fm General            | 195,235.09           | 120,000.00           | -                            | 120,000.00                    | 100,000.00                   |
| 450-000-3341-000                       | Transfer fm Parks -Mtce        | 61,992.00            | -                    | -                            | -                             | -                            |
| 450-000-3342-000                       | Transfer fm Capital Imp        | 251,952.00           | 251,950.00           | 188,964.00                   | 251,950.00                    | 441,738.00                   |
| <b>Total Golf Course Other Sources</b> |                                | <b>\$ 509,179.09</b> | <b>\$ 371,950.00</b> | <b>\$ 188,964.00</b>         | <b>\$ 371,950.00</b>          | <b>\$ 541,738.00</b>         |

| Account                                                 | Account Name                | FY2023<br>Actual       | FY2024<br>Budget       | 6/30/2024<br>Actual    | FY2024<br>Actual       | FY2025<br>Budget       |
|---------------------------------------------------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Golf Course Other Uses                                  |                             |                        |                        |                        |                        |                        |
| 450-000-3276-000                                        | Transfer to 2016 DS         | 218,577.38             | 251,950.00             | 233,075.55             | 251,950.00             | 241,738.00             |
| 450-000-3285-000                                        | Trns to Capital Improvement | 194,664.79             | 275,367.00             | 178,073.80             | 275,367.00             | 300,000.00             |
| <b>Total Golf Course Other Uses</b>                     |                             | <b>\$ 413,242.17</b>   | <b>\$ 527,317.00</b>   | <b>\$ 411,149.35</b>   | <b>\$ 527,317.00</b>   | <b>\$ 541,738.00</b>   |
| Change in Fund Balance                                  |                             | 114,924.82             | (350,541.00)           | (241,471.34)           | (297,310.62)           | (40,689.00)            |
| <b>Golf Course Beginning Fund Balance"October 1"</b>    |                             | <b>\$ 458,155.00</b>   | <b>\$ 573,079.82</b>   | <b>\$ 573,079.82</b>   | <b>\$ 573,079.82</b>   | <b>\$ 275,769.20</b>   |
| <b>Total Golf Course Funding Sources</b>                |                             | <b>\$ 1,569,916.47</b> | <b>\$ 1,384,929.82</b> | <b>\$ 1,074,979.70</b> | <b>\$ 1,362,277.66</b> | <b>\$ 1,392,507.20</b> |
| <b>Total Golf Course Funding Uses</b>                   |                             | <b>\$ 996,836.65</b>   | <b>\$ 1,162,391.00</b> | <b>\$ 743,371.22</b>   | <b>\$ 1,086,508.46</b> | <b>\$ 1,157,427.00</b> |
| <b>Golf Course Beginning Fund Balance"September 30"</b> |                             | <b>\$ 573,079.82</b>   | <b>\$ 222,538.82</b>   | <b>\$ 331,608.48</b>   | <b>\$ 275,769.20</b>   | <b>\$ 235,080.20</b>   |

90-Day Reserve

\$ 151,813.73

Days reserve

139.36



| Golf Course           |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | # | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work Comp | Total Salary<br>& Benefits |
|----------------------|---|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|-----------|----------------------------|
| Garner, Alex         |   | 38,198.99  |                    |                       |                           |                    |            |           |           | \$ -                       |
| Superintendent       |   | 52,910.58  |                    |                       |                           |                    |            |           |           | \$ -                       |
| N/A                  |   | 37,080.00  |                    |                       |                           | -                  | -          | -         | -         | \$ -                       |
| N/A                  |   | 33,207.20  |                    |                       |                           | -                  | -          | -         | -         | \$ -                       |
|                      | - | 161,396.77 | -                  | -                     | -                         | -                  | -          | -         | -         | \$ -                       |
| Overtime             |   | 2,503.88   |                    |                       |                           | \$ -               |            |           |           |                            |
| Part Time & Seasonal |   | 44,560.35  |                    |                       |                           |                    |            |           |           |                            |
| Total Salaries       |   | 208,461.00 | -                  |                       |                           |                    |            |           |           |                            |

|                      |                             | Department Request |                                        |
|----------------------|-----------------------------|--------------------|----------------------------------------|
|                      |                             | Amount             | Justification & Supporting Information |
| Golf Course Revenues |                             |                    |                                        |
| 450-150-4350-430     | Golf Course Fees            |                    |                                        |
| 450-150-4360-430     | Golf Cart Rentals           |                    |                                        |
| 450-150-4370-430     | Passes for Fees             |                    |                                        |
| 450-150-4380-430     | Pro Shop Revenue            |                    |                                        |
| 450-150-4390-430     | Driving Range Revenue       |                    |                                        |
| 450-150-4420-430     | Golf Concessions Revenue    |                    |                                        |
| 450-150-4500-430     | Community Room Rental       |                    |                                        |
| 450-150-4700-430     | Interest Earned-Golf Course |                    |                                        |
| 450-150-4760-430     | Insurance Proceeds          |                    |                                        |
| 450-150-4800-430     | Golf Course Miscellaneous   | 575,000.00         |                                        |
| 450-150-4820-430     | Sale of Property            |                    |                                        |
| 450-150-4993-430     | Advertising Revenue         |                    |                                        |
| 450-150-4352-430     | Tournament Fees             |                    |                                        |
|                      |                             |                    |                                        |
|                      |                             |                    |                                        |
|                      |                             | 575,000.00         |                                        |

|                          |                                | Amount     | Justification & Supporting Information                                                                                                                                                                                                     |
|--------------------------|--------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Golf Course Expenditures |                                |            |                                                                                                                                                                                                                                            |
| 450-150-5260-430         | Golf Course Prof. Services     | 554,391.00 | ForeUp \$7,380, Stronghold \$1,896, liquor license renewal \$600, newton county liquor license, \$56.00 TEC security \$378, Soil testing \$200, Fire inspection \$300, Pest Control \$480, AED Inspections \$100, Maxim Expenses \$536,171 |
| 450-150-5265-430         | Golf Mngmt Contracted Services | 45,000.00  | Maxim Management Fees                                                                                                                                                                                                                      |
| 450-150-5270-430         | Golf Course Credit Card Fees   |            |                                                                                                                                                                                                                                            |
| 450-150-5300-430         | Golf Insurance & Bonds         | 16,028.00  | Property Ins                                                                                                                                                                                                                               |
| 450-150-5310-430         | Golf Course Concession Cost    |            | Combines Cost of Goods, Supplies, Equip.Repair, Banq. Rent                                                                                                                                                                                 |
| 450-150-5700-430         | Golf Course Computer/Software  | 270.00     | wifi booster \$270                                                                                                                                                                                                                         |
|                          |                                | 615,689.00 |                                                                                                                                                                                                                                            |

|                           |                         | Amount     | Justification & Supporting Information |
|---------------------------|-------------------------|------------|----------------------------------------|
| Golf Course Other Sources |                         |            |                                        |
| 450-000-3340-000          | Transfer fm General     | 100,000.00 | debt, irrigation system \$300,000      |
| 450-000-3341-000          | Transfer fm Parks -Mtce | -          |                                        |
| 450-000-3342-000          | Transfer fm Capital Imp | 441,738.00 | debt, irrigation system \$300,000      |

|                        |                             | Amount     | Justification & Supporting Information           |
|------------------------|-----------------------------|------------|--------------------------------------------------|
| Golf Course Other Uses |                             |            |                                                  |
| 450-000-3276-000       | Transfer to 2016 DS         | 241,738.00 | 2016 Debt Principal & Interest and Admin Fees    |
| 450-000-3285-000       | Trns to Capital Improvement | 300,000.00 | 9 holes New Irrigation System incl. lines, heads |

## Abbott Brothers Trust

Kenny Balls  
Parks & Recreation Manager  
[Kballs@neoshomo.org](mailto:Kballs@neoshomo.org)

The City of Neosho was gifted a farm in Cimarron County in Oklahoma in 1946 by J.W. Abbott. Proceeds from the farm may be used for maintenance and improvement of Big Spring Park.

| Revenue Category     | FY2023 Actual   | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-----------------|-----------------------|----------------------------|------------------------|
| Taxes                | -               | -                     | -                          | -                      |
| Intergovernmental    | -               | -                     | -                          | -                      |
| Licenses & Permits   | -               | -                     | -                          | -                      |
| Charges for Services | 5,034.69        | 2,700.00              | -                          | 2,700.00               |
| Fines & Forfeitures  | -               | -                     | -                          | -                      |
| Miscellaneous        | 810.62          | 75.00                 | 3,428.96                   | 1,449.00               |
| Other Sources        | -               | -                     | -                          | -                      |
| <b>Total</b>         | <b>5,845.31</b> | <b>2,775.00</b>       | <b>3,428.96</b>            | <b>4,149.00</b>        |
|                      | \$ -            | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -             | -                     | -                          | -                      |
| Supplies & Materials          | -             | -                     | -                          | -                      |
| Maintenance & Repair          | -             | -                     | -                          | -                      |
| Contractual Services          | 192.00        | 200.00                | -                          | 653.00                 |
| Utilities                     | -             | -                     | -                          | -                      |
| Other Expenses                | 157.00        | 158.00                | 153.00                     | 158.00                 |
| Capital                       | -             | -                     | -                          | -                      |
| Other Uses                    | -             | -                     | -                          | -                      |
| Debt Service                  | -             | -                     | -                          | -                      |
| <b>Total</b>                  | <b>349.00</b> | <b>358.00</b>         | <b>153.00</b>              | <b>811.00</b>          |
|                               | \$ -          | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| No FTEs                 |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> |               | <b>0</b>              | <b>0</b>              | <b>0</b>               |

Abbott Brothers

| Account                                                     | Account Name                   | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------------------|--------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Abbott Brothers Revenues                                    |                                |                     |                     |                              |                               |                              |
| 700-700-4570-700                                            | Farm Proceeds                  | 5,034.69            | 2,700.00            | -                            | 2,700.00                      | 2,700.00                     |
| 700-700-4700-700                                            | Int. Earned-Abbott Brothers Fd | 152.62              | 75.00               | 1,114.96                     | 1,486.61                      | 1,449.00                     |
| 700-700-4760-700                                            | Farm Insurance Claims          | 658.00              | -                   | 2,314.00                     | -                             | -                            |
| <b>Total Abbott Brothers Revenues</b>                       |                                | <b>\$ 5,845.31</b>  | <b>\$ 2,775.00</b>  | <b>\$ 3,428.96</b>           | <b>\$ 4,186.61</b>            | <b>\$ 4,149.00</b>           |
| Abbott Brothers Expenditures                                |                                |                     |                     |                              |                               |                              |
| 700-700-5300-700                                            | Insurance and Bonds            | 192.00              | 200.00              | -                            | 192.00                        | 653.00                       |
| 700-700-5440-700                                            | Real Estate Taxes              | 157.00              | 158.00              | 153.00                       | 153.00                        | 158.00                       |
| <b>Total Abbott Brothers Expenditures</b>                   |                                | <b>\$ 349.00</b>    | <b>\$ 358.00</b>    | <b>\$ 153.00</b>             | <b>\$ 345.00</b>              | <b>\$ 811.00</b>             |
| Abbott Brothers Other Sources                               |                                |                     |                     |                              |                               |                              |
| <b>Total Abbott Brothers Other Sources</b>                  |                                | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Abbott Brothers Other Uses                                  |                                |                     |                     |                              |                               |                              |
| 700-000-3243-000                                            | Transfer to Parks Department   | -                   | -                   | -                            | -                             | -                            |
| <b>Total Abbott Brothers Other Uses</b>                     |                                | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                      |                                | 5,496.31            | 2,417.00            | 3,275.96                     | 3,841.61                      | 3,338.00                     |
| <b>Abbott Brothers Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 39,475.00</b> | <b>\$ 44,971.31</b> | <b>\$ 44,971.31</b>          | <b>\$ 44,971.31</b>           | <b>\$ 48,812.92</b>          |
| <b>Total Abbott Brothers Funding Sources</b>                |                                | <b>\$ 45,320.31</b> | <b>\$ 47,746.31</b> | <b>\$ 48,400.27</b>          | <b>\$ 49,157.92</b>           | <b>\$ 52,961.92</b>          |
| <b>Total Abbott Brothers Funding Uses</b>                   |                                | <b>\$ 349.00</b>    | <b>\$ 358.00</b>    | <b>\$ 153.00</b>             | <b>\$ 345.00</b>              | <b>\$ 811.00</b>             |
| <b>Abbott Brothers Beginning Fund Balance"September 30"</b> |                                | <b>\$ 44,971.31</b> | <b>\$ 47,388.31</b> | <b>\$ 48,247.27</b>          | <b>\$ 48,812.92</b>           | <b>\$ 52,150.92</b>          |
| Unrestricted Fund Balance                                   |                                |                     |                     |                              |                               | <b>\$ 25,450.69</b>          |
| Restricted Fund Balance                                     |                                |                     |                     |                              |                               |                              |
| Trust Principal                                             |                                |                     |                     |                              |                               | \$ 26,700.23                 |
| <b>90-Day Reserve</b>                                       |                                |                     |                     |                              |                               | <b>\$ 199.97</b>             |

|                 |
|-----------------|
| Abbott Brothers |
|-----------------|

Abbott Brothers Revenues

|                  |                                |
|------------------|--------------------------------|
| 700-700-4570-700 | Farm Proceeds                  |
| 700-700-4700-700 | Int. Earned-Abbott Brothers Fd |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 2,700.00           | 3 year historical average              |
| 1,449.00           | Lower Fund Balance                     |
|                    |                                        |
| 4,149.00           |                                        |

Abbott Brothers Expenditures

|                  |                     |
|------------------|---------------------|
| 700-700-5300-700 | Insurance and Bonds |
| 700-700-5440-700 | Real Estate Taxes   |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
| 653.00 |                                        |
| 158.00 |                                        |
|        |                                        |
| -      |                                        |

Abbott Brothers Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Abbott Brothers Other Uses

|                  |                              |
|------------------|------------------------------|
| 700-000-3243-000 | Transfer to Parks Department |
|------------------|------------------------------|

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Morse Park Trust

Kenny Balls  
Parks & Recreation Manager  
[Kballs@neoshomo.org](mailto:Kballs@neoshomo.org)

The City of Neosho was named a beneficiary of a trust gift in 2015 by Winona Ruth Wallace. The gift is to be used for improvements to Morse Park.

|                      |              | FY2024       | FY2024       | FY2025        |
|----------------------|--------------|--------------|--------------|---------------|
| Revenue              | FY2023       | Adopted      | Current YTD  | Proposed      |
| Category             | Actual       | Budget       | Actuals      | Budget        |
| Taxes                | -            | -            | -            | -             |
| Intergovernmental    | -            | -            | -            | -             |
| Licenses & Permits   | -            | -            | -            | -             |
| Charges for Services | -            | -            | -            | -             |
| Fines & Forfeitures  | -            | -            | -            | -             |
| Miscellaneous        | 12.83        | 13.00        | 86.74        | 113.00        |
| Other Sources        | -            | -            | -            | -             |
| <b>Total</b>         | <b>12.83</b> | <b>13.00</b> | <b>86.74</b> | <b>113.00</b> |
|                      | \$ -         | \$ -         | \$ -         | \$ -          |

|                               |          | FY2024   | FY2024      | FY2025   |
|-------------------------------|----------|----------|-------------|----------|
| Expense                       | FY2023   | Adopted  | Current YTD | Proposed |
| Category                      | Actual   | Budget   | Actuals     | Budget   |
| Salaries, Benefits, & Support | -        | -        | -           | -        |
| Supplies & Materials          | -        | -        | -           | -        |
| Maintenance & Repair          | -        | -        | -           | -        |
| Contractual Services          | -        | -        | -           | -        |
| Utilities                     | -        | -        | -           | -        |
| Other Expenses                | -        | -        | -           | -        |
| Capital                       | -        | -        | -           | -        |
| Other Uses                    | -        | -        | -           | -        |
| Debt Service                  | -        | -        | -           | -        |
| <b>Total</b>                  | <b>-</b> | <b>-</b> | <b>-</b>    | <b>-</b> |
|                               | \$ -     | \$ -     | \$ -        | \$ -     |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

|                         | FY2023   | FY2024   | FY2024   | FY2025   |
|-------------------------|----------|----------|----------|----------|
| Staffing Levels         | Actual   | Adopted  | Current  | Proposed |
| Category                | Budget   | Budget   | Budget   | Budget   |
| No FTEs                 |          |          |          |          |
| <b>DEPARTMENT TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

|                  |
|------------------|
| Morse Park Trust |
|------------------|

| Account                                                      | Account Name                  | FY2023<br>Actual   | FY2024<br>Budget   | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|--------------------------------------------------------------|-------------------------------|--------------------|--------------------|------------------------------|-------------------------------|------------------------------|
| Morse Park Trust Revenues                                    |                               |                    |                    |                              |                               |                              |
| 710-710-4700-710                                             | Interest Earned-Morse Park Fd | 12.83              | 13.00              | 86.74                        | 115.65                        | 113.00                       |
| <b>Total Morse Park Trust Revenues</b>                       |                               | <b>\$ 12.83</b>    | <b>\$ 13.00</b>    | <b>\$ 86.74</b>              | <b>\$ 115.65</b>              | <b>\$ 113.00</b>             |
| Morse Park Trust Expenditures                                |                               |                    |                    |                              |                               |                              |
| <b>Total Morse Park Trust Expenditures</b>                   |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Morse Park Trust Other Sources                               |                               |                    |                    |                              |                               |                              |
| <b>Total Morse Park Trust Other Sources</b>                  |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Morse Park Trust Other Uses                                  |                               |                    |                    |                              |                               |                              |
| <b>Total Morse Park Trust Other Uses</b>                     |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                       |                               | 12.83              | 13.00              | 86.74                        | 115.65                        | 113.00                       |
| <b>Morse Park Trust Beginning Fund Balance"October 1"</b>    |                               | <b>\$ 3,653.00</b> | <b>\$ 3,665.83</b> | <b>\$ 3,665.83</b>           | <b>\$ 3,665.83</b>            | <b>\$ 3,781.48</b>           |
| <b>Total Morse Park Trust Funding Sources</b>                |                               | <b>\$ 3,665.83</b> | <b>\$ 3,678.83</b> | <b>\$ 3,752.57</b>           | <b>\$ 3,781.48</b>            | <b>\$ 3,894.48</b>           |
| <b>Total Morse Park Trust Funding Uses</b>                   |                               | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Morse Park Trust Beginning Fund Balance"September 30"</b> |                               | <b>\$ 3,665.83</b> | <b>\$ 3,678.83</b> | <b>\$ 3,752.57</b>           | <b>\$ 3,781.48</b>            | <b>\$ 3,894.48</b>           |
| Unrestricted Fund Balance                                    |                               |                    |                    |                              |                               | <b>\$ 1,394.48</b>           |
| Restricted Fund Balance                                      |                               |                    |                    |                              |                               |                              |
| Trust Principal                                              |                               |                    |                    |                              |                               | <b>\$ 2,500.00</b>           |

|                       |             |
|-----------------------|-------------|
| <b>90-Day Reserve</b> | <b>\$ -</b> |
|-----------------------|-------------|

|              |         |
|--------------|---------|
| Days reserve | #DIV/0! |
|--------------|---------|

Morse Park Trust

Morse Park Trust Revenues  
710-710-4700-710      Interest Earned-Morse Park Fd

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 113.00             |                                        |
| 113.00             |                                        |

Morse Park Trust Expenditures

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
| -      |                                        |

Morse Park Trust Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Morse Park Trust Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Street Department

Nate Siler  
Public Works Director  
[nsiler@neoshomo.org](mailto:nsiler@neoshomo.org)

Street Maintenance – The Department coordinates or conducts a wide variety of street maintenance activities, including crack filling, seal coating, patching, striping, shouldering, signage, street lights, resurfacing, reconstruction, snow and ice control, and sidewalk repair or replacement.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 1,897,255.50        | 1,492,248.00          | 1,410,336.20               | 1,498,524.00           |
| Intergovernmental    | 65,481.50           | 24,025.00             | 44,934.06                  | 24,025.00              |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | -                   | -                     | -                          | -                      |
| Fines & Forfeitures  | -                   | -                     | -                          | -                      |
| Miscellaneous        | 9,965.75            | 353,425.00            | 405,080.19                 | 70,321.00              |
| Other Sources        | -                   | -                     | -                          | -                      |
| <b>Total</b>         | <b>1,972,702.75</b> | <b>1,869,698.00</b>   | <b>1,860,350.45</b>        | <b>1,592,870.00</b>    |
|                      | \$ 0.00             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 456,793.50          | 572,363.00            | 412,060.10                 | 604,135.00             |
| Supplies & Materials          | 84,225.91           | 115,175.00            | 47,162.71                  | 115,175.00             |
| Maintenance & Repair          | 51,169.23           | 62,500.00             | 58,477.63                  | 62,500.00              |
| Contractual Services          | 822,284.31          | 1,297,922.00          | 553,851.06                 | 639,584.00             |
| Utilities                     | 176,654.96          | 179,134.00            | 144,823.81                 | 193,141.00             |
| Other Expenses                | 36,416.94           | 50,480.00             | 31,978.45                  | 50,303.00              |
| Capital                       | 183,024.97          | 596,036.00            | 261,955.54                 | 229,500.00             |
| Other Uses                    | 5,660.04            | 5,660.00              | 4,245.03                   | 5,660.00               |
| Debt Service                  | 7,546.33            | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,823,776.19</b> | <b>2,879,270.00</b>   | <b>1,514,554.33</b>        | <b>1,899,998.00</b>    |
|                               | \$ 0.00             | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Professional Services** - Increase for contract work

**Member Training and Travel** - Increase for trainings

**Street Contracts** - Increase of street overlays & slurry seal

**Maintenance Material** - Increase per need

#### Decreases:

**Street Contracts** - Decrease due to need and no overlap of contract years

| Staffing Levels         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Director                | 1             | 1                     | 1                     | 1                      |
| Superintendent          | 1             | 1                     | 1                     | 1                      |
| Foreman                 | 1             | 1                     | 1                     | 1                      |
| Maintenance             | 2             | 2                     | 2                     | 2                      |
| Mechanic                | 1             | 1                     | 1                     | 1                      |
| Operator                | 1             | 1                     | 1                     | 1                      |
| Laborer                 | 1             | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b> | <b>8</b>      | <b>9</b>              | <b>9</b>              | <b>9</b>               |



|                   |
|-------------------|
| Street Department |
|-------------------|

| Account                                      | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|----------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Street Department Revenues                   |                               |                        |                        |                              |                               |                              |
| 800-800-4030-800                             | Transportation Sales Tax      | 1,254,398.54           | 1,018,758.00           | 915,817.89                   | 1,221,090.52                  | 1,018,758.00                 |
| 800-800-4090-800                             | Vehicle Sales Tax             | 131,676.88             | 85,000.00              | 99,674.29                    | 132,899.05                    | 87,550.00                    |
| 800-800-4130-800                             | Sanitation Enforcement        | 12,499.08              | 15,800.00              | 8,688.08                     | 11,584.11                     | 15,800.00                    |
| 800-800-4180-800                             | Vehicle License Fees          | 58,256.88              | 54,540.00              | 41,726.03                    | 55,634.71                     | 55,085.00                    |
| 800-800-4280-800                             | Gasoline Tax                  | 440,424.12             | 318,150.00             | 344,429.91                   | 459,239.88                    | 321,331.00                   |
| 800-800-4700-800                             | Interest Earned-Street Fund   | 6,904.57               | 4,000.00               | 54,304.94                    | 72,406.59                     | 70,321.00                    |
| 800-800-4800-800                             | Street Department Misc.       | 3,061.18               | 349,425.00             | 350,775.25                   | 467,700.33                    | -                            |
| 800-800-4820-800                             | Street Sale of Property       | 37,073.17              | -                      | 12,660.00                    | 12,660.00                     | -                            |
| 833-833-4851-833                             | TDD Road Mtce Agreement       | 28,038.67              | 24,025.00              | 28,991.98                    | 28,991.98                     | 24,025.00                    |
| 800-800-4850-800                             | TDD Road Mtce Contract        | -                      | -                      | -                            | -                             | -                            |
| 833-833-4700-833                             | Interest Earned-TDD Mtce      | 369.66                 | -                      | 3,282.08                     | 3,282.08                      | -                            |
| <b>Total Street Department Revenues</b>      |                               | <b>\$ 1,972,702.75</b> | <b>\$ 1,869,698.00</b> | <b>\$ 1,860,350.45</b>       | <b>\$ 2,465,489.25</b>        | <b>\$ 1,592,870.00</b>       |
| Street Department Expenditures               |                               |                        |                        |                              |                               |                              |
| 800-800-5010-800                             | Street Salaries               | 320,577.68             | 394,769.00             | 295,778.02                   | 394,370.69                    | 415,718.00                   |
| 800-800-5020-800                             | Street Overtime               | 16,261.53              | 18,000.00              | 13,495.47                    | 17,993.96                     | 18,000.00                    |
| 800-800-5030-800                             | Street Part Time              | 5,334.38               | 12,000.00              | -                            | -                             | 12,000.00                    |
| 800-800-5070-800                             | Availability Allowance        | 1,425.00               | 1,440.00               | 1,080.00                     | 1,440.00                      | 1,440.00                     |
| 800-800-5170-800                             | Street Social Security        | 25,512.37              | 32,342.00              | 23,296.52                    | 31,062.03                     | 33,945.00                    |
| 800-800-5180-800                             | Street Retirement             | 16,730.08              | 20,539.00              | 14,508.83                    | 19,345.11                     | 25,904.00                    |
| 800-800-5190-800                             | Street Health Insurance       | 56,691.57              | 67,975.00              | 43,610.26                    | 58,147.01                     | 70,153.00                    |
| 800-800-5210-800                             | Street Workers Compensation   | 10,055.42              | 18,518.00              | 15,891.71                    | 21,188.95                     | 19,435.00                    |
| 800-800-5260-800                             | Street Professional Services  | 19,896.08              | 21,367.00              | 18,610.83                    | 24,814.44                     | 31,367.00                    |
| 800-800-5260-360                             | Street TIF Professional Srvc  | 299,896.09             | 100,000.00             | 25,138.64                    | 33,518.19                     | -                            |
| 800-800-5300-800                             | Street Insurance & Bonds      | 12,257.57              | 8,691.00               | 8,007.18                     | 10,676.24                     | 8,217.00                     |
| 800-800-5320-800                             | Street Facility Maintenance   | 4,115.97               | 10,000.00              | 4,756.12                     | 6,341.49                      | 10,000.00                    |
| 800-800-5330-800                             | Street Equipment Maintenance  | 47,053.26              | 52,500.00              | 53,721.51                    | 71,628.68                     | 52,500.00                    |
| 800-800-5360-800                             | Street Member/Training/Travel | 88.00                  | 1,540.00               | 884.64                       | 1,179.52                      | 2,300.00                     |
| 800-800-5380-800                             | Street Uniforms               | 4,117.47               | 5,240.00               | 3,514.65                     | 4,686.20                      | 5,240.00                     |
| 800-800-5530-800                             | Street Fuels/Lubricants       | 32,397.17              | 42,000.00              | 29,436.00                    | 39,248.00                     | 42,000.00                    |
| 800-800-5580-800                             | Street Maintenance Materials  | 67,542.06              | 80,000.00              | 34,789.65                    | 46,386.20                     | 80,000.00                    |
| 800-800-5590-800                             | Street General Supplies       | 3,396.95               | 3,675.00               | 1,729.73                     | 2,306.31                      | 3,675.00                     |
| 800-800-5600-800                             | Street Signs and Markings     | 13,286.90              | 31,500.00              | 10,643.33                    | 14,191.11                     | 31,500.00                    |
| 800-800-5700-800                             | Street Computers, Software    | 2,345.95               | 3,755.00               | 1,633.77                     | 2,178.36                      | 3,578.00                     |
| 800-800-5800-800                             | Street Contracts Street       | 490,234.57             | 1,167,864.00           | 502,094.41                   | 1,167,864.00                  | 600,000.00                   |
| 800-800-6340-800                             | Street Lights                 | 164,218.28             | 164,877.00             | 123,102.07                   | 164,877.00                    | 164,877.00                   |
| 800-800-6300-800                             | Street Electricity            | 5,857.74               | 6,372.00               | 14,765.80                    | 19,687.73                     | 19,700.00                    |
| 800-800-6310-800                             | Street Heating Fuels          | 2,209.42               | 2,782.00               | 2,703.40                     | 3,604.53                      | 3,000.00                     |
| 800-800-6350-800                             | Street Phones                 | 4,369.52               | 5,103.00               | 4,252.54                     | 5,670.05                      | 5,564.00                     |
| 800-800-6380-800                             | Lease Purchase Payments       | 7,836.47               | -                      | -                            | -                             | -                            |
| 800-800-6390-800                             | Street Minor Equipment        | 1,673.82               | 4,725.00               | 908.68                       | 1,211.57                      | 4,725.00                     |
| <b>Total Street Department Expenditures</b>  |                               | <b>\$ 1,635,381.32</b> | <b>\$ 2,277,574.00</b> | <b>\$ 1,248,353.76</b>       | <b>\$ 2,163,617.37</b>        | <b>\$ 1,664,838.00</b>       |
| Street Department Other Sources              |                               |                        |                        |                              |                               |                              |
|                                              | 0                             | 0                      |                        |                              | -                             | -                            |
| <b>Total Street Department Other Sources</b> |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Street Department Other Uses                 |                               |                        |                        |                              |                               |                              |
| 800-000-3216-000                             | Transfer to Airport -Land     | 5,660.04               | 5,660.00               | 4,245.03                     | 5,660.00                      | 5,660.00                     |
| 800-000-3220-000                             | Transfer to 2012A&B Fund      | 7,546.33               | -                      | -                            | -                             | -                            |
| 800-000-3285-000                             | Trns to Capital Improvement   | 175,188.50             | 596,036.00             | 261,955.54                   | 596,036.00                    | 229,500.00                   |
| <b>Total Street Department Other Uses</b>    |                               | <b>\$ 188,394.87</b>   | <b>\$ 601,696.00</b>   | <b>\$ 266,200.57</b>         | <b>\$ 601,696.00</b>          | <b>\$ 235,160.00</b>         |
| Change in Fund Balance                       |                               | 148,926.56             | (1,009,572.00)         | 345,796.12                   | (299,824.13)                  | (307,128.00)                 |

| Account                                                | Account Name | FY2023<br>Actual | FY2024<br>Budget | 6/30/2024<br>Actual | FY2024<br>Actual | FY2025<br>Budget |
|--------------------------------------------------------|--------------|------------------|------------------|---------------------|------------------|------------------|
| Street Department Beginning Fund Balance"October 1"    |              | \$ 2,259,579.00  | \$ 2,408,505.56  | \$ 2,408,505.56     | \$ 2,408,505.56  | \$ 2,108,681.43  |
| Total Street Department Funding Sources                |              | \$ 4,232,281.75  | \$ 4,278,203.56  | \$ 4,268,856.01     | \$ 4,873,994.81  | \$ 3,701,551.43  |
| Total Street Department Funding Uses                   |              | \$ 1,823,776.19  | \$ 2,879,270.00  | \$ 1,514,554.33     | \$ 2,765,313.37  | \$ 1,899,998.00  |
| Street Department Beginning Fund Balance"September 30" |              | \$ 2,408,505.56  | \$ 1,398,933.56  | \$ 2,754,301.68     | \$ 2,108,681.43  | \$ 1,801,553.43  |

90-Day Reserve

\$ 410,508.00

Days reserve
394.97

| Street Sales Tax      |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | # | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|----------------------|---|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Siler, Nathaniel     | 1 | 66,920.10  | \$ 68,927.70       | 1,000.00              | 360                       | 5,273.00           | 4,136.00   | 7,878.72  | 3,020.00     | \$ 90,595.43               |
| Barratt, Jr. Jeffery | 1 | 58,200.74  | \$ 59,946.76       | 1,000.00              | 360                       | 4,586.00           | 3,597.00   | 7,795.00  | 2,626.00     | \$ 79,910.76               |
| Denny, Gary          | 1 | 37,852.36  | \$ 40,017.93       |                       |                           | 3,062.00           | 2,402.00   | 7,795.00  | 1,753.00     | \$ 55,029.93               |
| Barton, Randy        | 1 | 42,251.82  | \$ 45,468.42       |                       | 360                       | 3,479.00           | 2,729.00   | 7,795.00  | 1,992.00     | \$ 61,823.42               |
| Jenks, Jeffery       | 1 | 41,732.34  | \$ 44,014.31       |                       | 360                       | 3,368.00           | 2,641.00   | 7,795.00  | 1,928.00     | \$ 60,106.31               |
| Roux, Tracy          | 1 | 39,681.46  | \$ 41,571.13       |                       |                           | 3,181.00           | 2,495.00   | 7,795.00  | 1,821.00     | \$ 56,863.13               |
| Kimmel, Trenton      | 1 | 37,852.62  | \$ 40,272.03       |                       |                           | 3,081.00           | 2,417.00   | 7,795.00  | 1,764.00     | \$ 55,329.03               |
| Open                 | 1 | 34,597.68  | \$ 36,749.39       |                       |                           | 2,812.00           | 2,205.00   | 7,795.00  | 1,610.00     | \$ 51,171.39               |
| Salsman, Clinton     | 1 | 35,679.02  | \$ 36,749.39       |                       |                           | 2,812.00           | 2,205.00   | 7,795.00  | 1,610.00     | \$ 51,171.39               |
| 9.00                 |   | 394,768.14 | 413,717.07         | 2,000.00              | 1,440.00                  | 31,654.00          | 24,827.00  | 70,238.72 | 18,124.00    | \$ 562,000.80              |
| Overtime             |   | 17,993.96  | 18,000.00          |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |   | 44,560.35  | 12,000.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |   | 457,322.45 | 443,717.07         |                       |                           |                    |            |           |              |                            |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 800-800-4030-800   | Transportation Sales Tax               |
| 800-800-4090-800   | Vehicle Sales Tax                      |
| 800-800-4130-800   | Sanitation Enforcement                 |
| 800-800-4180-800   | Vehicle License Fees                   |
| 800-800-4280-800   | Gasoline Tax                           |
| 800-800-4700-800   | Interest Earned-Street Fund            |
| 833-833-4851-833   | TDD Road Mtce Agreement                |
| 800-800-4850-800   | TDD Road Mtce Contract                 |
| 1,592,870.00       |                                        |

| Amount           | Justification & Supporting Information |
|------------------|----------------------------------------|
| 800-800-5010-800 | Street Salaries                        |
| 800-800-5020-800 | Street Overtime                        |
| 800-800-5030-800 | Street Part Time                       |
| 800-800-5070-800 | Availability Allowance                 |
| 800-800-5170-800 | Street Social Security                 |
| 800-800-5180-800 | Street Retirement                      |
| 800-800-5190-800 | Street Health Insurance                |
| 800-800-5210-800 | Street Workers Compensation            |
| 800-800-5260-800 | Street Professional Services           |
| 800-800-5260-360 | Street TIF Professional Srvc           |
| 800-800-5300-800 | Street Insurance & Bonds               |
| 800-800-5320-800 | Street Facility Maintenance            |
| 800-800-5330-800 | Street Equipment Maintenance           |
| 800-800-5360-800 | Street Member/Training/Travel          |
| 800-800-5380-800 | Street Uniforms                        |
| 800-800-5530-800 | Street Fuels/Lubricants                |
| 800-800-5580-800 | Street Maintenance Materials           |
| 800-800-5590-800 | Street General Supplies                |
| 800-800-5600-800 | Street Signs and Markings              |
| 800-800-5700-800 | Street Computers, Software             |
| 800-800-5800-800 | Street Contracts Street                |
| 800-800-6340-800 | Street Lights                          |
| 800-800-6300-800 | Street Electricity                     |

Street Sales Tax Expenditures

800-800-6310-800 Street Heating Fuels  
 800-800-6350-800 Street Phones  
 800-800-6390-800 Street Minor Equipment

| Amount       | Justification & Supporting Information                         |
|--------------|----------------------------------------------------------------|
| 3,000.00     |                                                                |
| 5,564.00     |                                                                |
| 4,725.00     | Used for the purchase of tools and smaller equipment as needed |
| 1,664,838.00 |                                                                |

-

Street Sales Tax Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Street Sales Tax Other Uses

800-000-3216-000 Transfer to Airport -Land  
 800-000-3220-000 Transfer to 2012A&B Fund  
 800-000-3285-000 Trns to Capital Improvement

| Amount     | Justification & Supporting Information                                                                                                                             |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5,660.00   |                                                                                                                                                                    |
| -          | 2012 Debt Principal & Interest and Admin Fees                                                                                                                      |
| 229,500.00 | Trailer for mini excavator \$15,000 (surplus 2), snow box for skid steer \$7,000, electricity and lights in storagee barn 50% share \$7,500, ADA curbing \$200,000 |
|            |                                                                                                                                                                    |

## Street/Bridge

David Kennedy

City Manager

[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

The Citizens voted in a 1/8 of 1% tax to repay the \$3,500,000 bonds issued in 2007 for the South Street Roundabout, Howard Bush Drive, La-z-boy Parkway and improvements to State Highway 59

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | 418,007.58        | 339,502.00            | 305,190.25                 | 339,502.00             |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | 2,656.30          | -                     | 21,998.13                  | 20,000.00              |
| Other Sources        | -                 | -                     | -                          | -                      |
| <b>Total</b>         | <b>420,663.88</b> | <b>339,502.00</b>     | <b>327,188.38</b>          | <b>359,502.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                 | -                     | -                          | -                      |
| Supplies & Materials          | -                 | -                     | -                          | -                      |
| Maintenance & Repair          | -                 | -                     | -                          | -                      |
| Contractual Services          | -                 | -                     | -                          | -                      |
| Utilities                     | -                 | -                     | -                          | -                      |
| Other Expenses                | -                 | -                     | -                          | -                      |
| Capital                       | -                 | -                     | -                          | -                      |
| Other Uses                    | -                 | -                     | -                          | 1,000,000.00           |
| Debt Service                  | 260,980.29        | 233,903.00            | 243,475.00                 | 239,604.00             |
| <b>Total</b>                  | <b>260,980.29</b> | <b>233,903.00</b>     | <b>243,475.00</b>          | <b>1,239,604.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Street Bridge Contract** - Increase for need repair Highway 59 Project

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No FTEs                 |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

Street Bridge

| Account                                                   | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Street Bridge Revenues                                    |                               |                        |                        |                              |                               |                              |
| 900-900-4030-900                                          | Street/Bridge Sales Tax       | 418,007.58             | 339,502.00             | 305,190.25                   | 406,920.33                    | 339,502.00                   |
| 900-900-4700-900                                          | Interest Earned-Street Bridge | 2,656.30               | -                      | 21,998.13                    | 29,330.84                     | 20,000.00                    |
| <b>Total Street Bridge Revenues</b>                       |                               | <b>\$ 420,663.88</b>   | <b>\$ 339,502.00</b>   | <b>\$ 327,188.38</b>         | <b>\$ 436,251.17</b>          | <b>\$ 359,502.00</b>         |
| Street Bridge Expenditures                                |                               |                        |                        |                              |                               |                              |
| 900-900-5800-900                                          | Street/Bridge Contract        |                        |                        |                              | -                             | 1,000,000.00                 |
| Street Bridge Other Uses                                  |                               |                        |                        |                              |                               |                              |
| <b>Total Street Bridge Expenditures</b>                   |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ 1,000,000.00</b>       |
| Street Bridge Other Sources                               |                               |                        |                        |                              |                               |                              |
| <b>Total Street Bridge Other Sources</b>                  |                               | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Street Bridge Other Uses                                  |                               |                        |                        |                              |                               |                              |
| 900-000-3273-000                                          | Transfer to 2013 SpObl Bond   | -                      | -                      | -                            | -                             | -                            |
| 900-000-3221-000                                          | Transfer to 2021 Series DS    | 260,980.29             | 233,903.00             | 243,475.00                   | 243,475.00                    | 239,604.00                   |
| <b>Total Street Bridge Other Uses</b>                     |                               | <b>\$ 260,980.29</b>   | <b>\$ 233,903.00</b>   | <b>\$ 243,475.00</b>         | <b>\$ 243,475.00</b>          | <b>\$ 239,604.00</b>         |
| Change in Fund Balance                                    |                               |                        |                        |                              |                               |                              |
|                                                           |                               | 159,683.59             | 105,599.00             | 83,713.38                    | 192,776.17                    | (880,102.00)                 |
| <b>Street Bridge Beginning Fund Balance"October 1"</b>    |                               | <b>\$ 769,716.00</b>   | <b>\$ 929,399.59</b>   | <b>\$ 929,399.59</b>         | <b>\$ 929,399.59</b>          | <b>\$ 1,122,175.76</b>       |
| <b>Total Street Bridge Funding Sources</b>                |                               | <b>\$ 1,190,379.88</b> | <b>\$ 1,268,901.59</b> | <b>\$ 1,256,587.97</b>       | <b>\$ 1,365,650.76</b>        | <b>\$ 1,481,677.76</b>       |
| <b>Total Street Bridge Funding Uses</b>                   |                               | <b>\$ 260,980.29</b>   | <b>\$ 233,903.00</b>   | <b>\$ 243,475.00</b>         | <b>\$ 243,475.00</b>          | <b>\$ 1,239,604.00</b>       |
| <b>Street Bridge Beginning Fund Balance"September 30"</b> |                               | <b>\$ 929,399.59</b>   | <b>\$ 1,034,998.59</b> | <b>\$ 1,013,112.97</b>       | <b>\$ 1,122,175.76</b>        | <b>\$ 242,073.76</b>         |
| 90-Day Reserve                                            |                               |                        |                        |                              |                               |                              |
|                                                           |                               |                        |                        |                              |                               | <b>\$ 246,575.34</b>         |

## Street Bridge

### Street Bridge Revenues

900-900-4030-900 Street/Bridge Sales Tax  
 900-900-4700-900 Interest Earned-Street Bridge

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 339,502.00         |                                        |
| 20,000.00          |                                        |
|                    |                                        |
| 359,502.00         |                                        |

### Street Bridge Expenditures

900-900-5800-900 Street/Bridge Contract

| Amount       | Justification & Supporting Information |
|--------------|----------------------------------------|
| 1,000,000.00 | 59 Highway upgrade                     |
|              |                                        |
| 1,000,000.00 |                                        |

### Street Bridge Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

### Street Bridge Other Uses

900-000-3221-000 Transfer to 2021 Series DS

| Amount     | Justification & Supporting Information              |
|------------|-----------------------------------------------------|
| 239,604.00 | 2021 Debt Principal & Interest Payment & Admin Fees |
|            |                                                     |

## Police Donation

Jason Baird  
Chief of Police  
[j.baird@neoshomo.org](mailto:j.baird@neoshomo.org)

The program is limited to residents within the City limits and provides Christmas for the less fortunate children in Neosho.

| Revenue Category     | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                | -                     | -                          | -                      |
| Intergovernmental    | -                | -                     | -                          | -                      |
| Licenses & Permits   | -                | -                     | -                          | -                      |
| Charges for Services | -                | -                     | -                          | -                      |
| Fines & Forfeitures  | -                | -                     | -                          | -                      |
| Miscellaneous        | 17,476.33        | 17,090.00             | 14,568.59                  | 17,600.00              |
| Other Sources        | -                | -                     | -                          | -                      |
| <b>Total</b>         | <b>17,476.33</b> | <b>17,090.00</b>      | <b>14,568.59</b>           | <b>17,600.00</b>       |
|                      | \$ -             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual    | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                | -                     | -                          | -                      |
| Supplies & Materials          | -                | -                     | -                          | -                      |
| Maintenance & Repair          | -                | -                     | -                          | -                      |
| Contractual Services          | -                | -                     | -                          | -                      |
| Utilities                     | -                | -                     | -                          | -                      |
| Other Expenses                | 15,089.49        | 17,068.00             | 17,067.09                  | 17,500.00              |
| Capital                       | -                | -                     | -                          | -                      |
| Other Uses                    | -                | -                     | -                          | -                      |
| Debt Service                  | -                | -                     | -                          | -                      |
| <b>Total</b>                  | <b>15,089.49</b> | <b>17,068.00</b>      | <b>17,067.09</b>           | <b>17,500.00</b>       |
|                               | \$ -             | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No FTE                  |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |



|                 |
|-----------------|
| Police Donation |
|-----------------|

| Account                                                     | Account Name                 | FY2023<br>Actual    | FY2024<br>Budget    | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------------------|------------------------------|---------------------|---------------------|------------------------------|-------------------------------|------------------------------|
| Police Donation Revenues                                    |                              |                     |                     |                              |                               |                              |
| 124-124-4700-124                                            | Interest Earned-Shop w/a Cop | 17.63               | 10.00               | 70.97                        | 94.63                         | 100.00                       |
| 124-124-4830-124                                            | Shop With A Cop              | 17,458.70           | 17,080.00           | 14,497.62                    | 14,497.62                     | 15,500.00                    |
| 124-120-4990-126                                            | Halloween Bash               |                     |                     |                              |                               | 2,000.00                     |
| <b>Total Police Donation Revenues</b>                       |                              | <b>\$ 17,476.33</b> | <b>\$ 17,090.00</b> | <b>\$ 14,568.59</b>          | <b>\$ 14,592.25</b>           | <b>\$ 17,600.00</b>          |
| Police Donation Expenditures                                |                              |                     |                     |                              |                               |                              |
| 124-124-6440-124                                            | Shop With A Cop Expenses     | 15,089.49           | 17,068.00           | 17,067.09                    | 17,067.09                     | 15,500.00                    |
| 124-120-6430-126                                            | Halloween Bash Expenses      |                     |                     |                              | -                             | 2,000.00                     |
| <b>Total Police Donation Expenditures</b>                   |                              | <b>\$ 15,089.49</b> | <b>\$ 17,068.00</b> | <b>\$ 17,067.09</b>          | <b>\$ 17,067.09</b>           | <b>\$ 17,500.00</b>          |
| Police Donation Other Sources                               |                              |                     |                     |                              |                               |                              |
| <b>Total Police Donation Other Sources</b>                  |                              | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Police Donation Other Uses                                  |                              |                     |                     |                              |                               |                              |
| <b>Total Police Donation Other Uses</b>                     |                              | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                      |                              | 2,386.84            | 22.00               | (2,498.50)                   | (2,474.84)                    | 100.00                       |
| <b>Police Donation Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 1,464.00</b>  | <b>\$ 3,850.84</b>  | <b>\$ 3,850.84</b>           | <b>\$ 3,850.84</b>            | <b>\$ 1,376.00</b>           |
| <b>Total Police Donation Funding Sources</b>                |                              | <b>\$ 18,940.33</b> | <b>\$ 20,940.84</b> | <b>\$ 18,419.43</b>          | <b>\$ 18,443.09</b>           | <b>\$ 18,976.00</b>          |
| <b>Total Police Donation Funding Uses</b>                   |                              | <b>\$ 15,089.49</b> | <b>\$ 17,068.00</b> | <b>\$ 17,067.09</b>          | <b>\$ 17,067.09</b>           | <b>\$ 17,500.00</b>          |
| <b>Police Donation Beginning Fund Balance"September 30"</b> |                              | <b>\$ 3,850.84</b>  | <b>\$ 3,872.84</b>  | <b>\$ 1,352.34</b>           | <b>\$ 1,376.00</b>            | <b>\$ 1,476.00</b>           |

**Police Donation**

## Police Donation Revenues

124-124-4700-124 Interest Earned-Shop w/a Cop  
124-124-4830-124 Shop With A Cop  
124-120-4990-126 Halloween Bash

| Department Request |                                                          |
|--------------------|----------------------------------------------------------|
| Amount             | Justification & Supporting Information                   |
| 100.00             |                                                          |
| 15,500.00          |                                                          |
| 2,000.00           | estimated to receive \$2,000 in donations and expens all |
|                    |                                                          |
| 17,600.00          |                                                          |

## Police Donation Expenditures

124-124-6440-124 Shop With A Cop Expenses  
124-120-6430-126 Halloween Bash Expenses

| Amount    | Justification & Supporting Information |
|-----------|----------------------------------------|
| 15,500.00 |                                        |
| 2,000.00  |                                        |
|           |                                        |
| 17,500.00 |                                        |

## Police Donation Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

## Police Donation Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |
|        |                                        |

|             |
|-------------|
| 2012 Series |
|-------------|

| Account                                                 | FY2023<br>Actual    | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|---------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2012 Series Revenues                                    |                     |                  |                              |                               |                              |
| 212-212-4700-212                                        | -                   | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Revenues</b>                       | <b>\$ -</b>         | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2012 Series Expenditures                                |                     |                  |                              |                               |                              |
| 212-212-5910-212                                        | 1,406.26            | -                | -                            | -                             | -                            |
| 212-212-5920-212                                        | 45.70               | -                | -                            | -                             | -                            |
| 212-212-5930-212                                        | 99.17               | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Expenditures</b>                   | <b>\$ 1,551.13</b>  | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2012 Series Other Sources                               |                     |                  |                              |                               |                              |
| 212-000-3320-000                                        | (52.12)             | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Other Sources</b>                  | <b>\$ (52.12)</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2012 Series Other Uses                                  |                     |                  |                              |                               |                              |
| 212-000-3314-000                                        | 38,128.24           | -                | -                            | -                             | -                            |
| <b>Total 2012 Series Other Uses</b>                     | <b>\$ 38,128.24</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  | (39,731.49)         | -                | -                            | -                             | -                            |
| <b>2012 Series Beginning Fund Balance"October 1"</b>    | <b>\$ 39,731.00</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2012 Series Funding Sources</b>                | <b>\$ 39,678.88</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2012 Series Funding Uses</b>                   | <b>\$ 39,678.88</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>2012 Series Beginning Fund Balance"September 30"</b> | <b>\$ -</b>         | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |

|             |
|-------------|
| 2013 Series |
|-------------|

| Account                                                 | FY2023<br>Actual      | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|-----------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2013 Series Revenues                                    |                       |                  |                              |                               |                              |
| 213-213-4700-213                                        | -                     | -                | -                            | -                             | -                            |
|                                                         | -                     | -                | -                            |                               |                              |
| <b>Total 2013 Series Revenues</b>                       | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2013 Series Expenditures                                |                       |                  |                              |                               |                              |
| 213-213-5910-213                                        | -                     | -                | -                            | -                             | -                            |
| 213-213-5920-213                                        | -                     | -                | -                            | -                             | -                            |
| 213-213-5940-213                                        | -                     | -                | -                            | -                             | -                            |
| <b>Total 2013 Series Expenditures</b>                   | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2013 Series Other Sources                               |                       |                  |                              |                               |                              |
| 213-000-3373-000                                        | -                     | -                | -                            | -                             | -                            |
| 213-200-0331-400                                        | (11,582.08)           | -                | -                            | -                             | -                            |
| <b>Total 2013 Series Other Sources</b>                  | <b>\$ (11,582.08)</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2013 Series Other Uses                                  |                       |                  |                              |                               |                              |
|                                                         | -                     | -                | -                            | -                             | -                            |
| <b>Total 2013 Series Other Uses</b>                     | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  | (11,582.08)           | -                | -                            | -                             | -                            |
| <b>2013 Series Beginning Fund Balance"October 1"</b>    | <b>\$ 11,582.08</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2013 Series Funding Sources</b>                | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2013 Series Funding Uses</b>                   | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>2013 Series Beginning Fund Balance"September 30"</b> | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |

2014 Series

| Account                                                 | Account Name                   | FY2023<br>Actual   | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|--------------------------------|--------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2014 Series Revenues                                    |                                |                    |                  |                              |                               |                              |
| 214-214-4700-214                                        | Interest Income                | -                  | -                | -                            | -                             | -                            |
|                                                         | Proceeds from refunding        | -                  | -                | -                            |                               |                              |
| <b>Total 2014 Series Revenues</b>                       |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2014 Series Expenditures                                |                                |                    |                  |                              |                               |                              |
| 214-214-5910-214                                        | 2014 Series Principal Payment  | -                  | -                | -                            | -                             | -                            |
| 214-214-5920-214                                        | 2014 Series Interest Payment   | -                  | -                | -                            | -                             | -                            |
| 214-214-5940-214                                        | 2014 Series Admin Fees         | -                  | -                | -                            | -                             | -                            |
| <b>Total 2014 Series Expenditures</b>                   |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2014 Series Other Sources                               |                                |                    |                  |                              |                               |                              |
| 214-000-3314-000                                        | Transfer from Other Funds      | (150.42)           | -                | -                            | -                             | -                            |
| 214-000-3320-000                                        | Transfer to                    | -                  | -                | -                            | -                             | -                            |
| <b>Total 2014 Series Other Sources</b>                  |                                | <b>\$ (150.42)</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2014 Series Other Uses                                  |                                |                    |                  |                              |                               |                              |
| New                                                     | Transfer to 2021 Series SPcObl |                    |                  |                              | -                             | -                            |
| <b>Total 2014 Series Other Uses</b>                     |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                                | (150.42)           | -                | -                            | -                             | -                            |
| <b>2014 Series Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 150.42</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2014 Series Funding Sources</b>                |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>Total 2014 Series Funding Uses</b>                   |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| <b>2014 Series Beginning Fund Balance"September 30"</b> |                                | <b>\$ -</b>        | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |

|             |
|-------------|
| 2016 Series |
|-------------|

| Account                                                 | Account Name                 | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| 2016 Series Revenues                                    |                              |                      |                      |                              |                               |                              |
| 216-216-4700-216                                        | Interest Income              | 12,060.59            | -                    | -                            | -                             | -                            |
| <b>Total 2016 Series Revenues</b>                       |                              | <b>\$ 12,060.59</b>  | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2016 Series Expenditures                                |                              |                      |                      |                              |                               |                              |
| 216-216-5910-216                                        | Principal Paid 2016 COP      | 190,000.00           | 190,000.00           | 190,000.00                   | 190,000.00                    | 190,000.00                   |
| 216-216-5920-216                                        | Interest Expense 2016 Series | 57,200.00            | 57,200.00            | 43,075.55                    | 57,200.00                     | 51,500.00                    |
| 216-216-5940-216                                        | 2016 Series Admin Fees       | 1,250.00             | 4,750.00             | 625.00                       | 4,750.00                      | 4,750.00                     |
| <b>Total 2016 Series Expenditures</b>                   |                              | <b>\$ 248,450.00</b> | <b>\$ 251,950.00</b> | <b>\$ 233,700.55</b>         | <b>\$ 251,950.00</b>          | <b>\$ 246,250.00</b>         |
| 2016 Series Other Sources                               |                              |                      |                      |                              |                               |                              |
| 216-000-3376-000                                        | Transfer in from Other Funds | 247,087.95           | 251,950.00           | 233,075.55                   | 251,950.00                    | 241,738.00                   |
| <b>Total 2016 Series Other Sources</b>                  |                              | <b>\$ 247,087.95</b> | <b>\$ 251,950.00</b> | <b>\$ 233,075.55</b>         | <b>\$ 251,950.00</b>          | <b>\$ 241,738.00</b>         |
| 2016 Series Other Uses                                  |                              |                      |                      |                              |                               |                              |
| <b>Total 2016 Series Other Uses</b>                     |                              | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                              | 10,698.54            | -                    | (625.00)                     | -                             | (4,512.00)                   |
| <b>2016 Series Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 303,677.00</b> | <b>\$ 314,375.54</b> | <b>\$ 314,375.54</b>         | <b>\$ 314,375.54</b>          | <b>\$ 314,375.54</b>         |
| <b>Total 2016 Series Funding Sources</b>                |                              | <b>\$ 562,825.54</b> | <b>\$ 566,325.54</b> | <b>\$ 547,451.09</b>         | <b>\$ 566,325.54</b>          | <b>\$ 556,113.54</b>         |
| <b>Total 2016 Series Funding Uses</b>                   |                              | <b>\$ 248,450.00</b> | <b>\$ 251,950.00</b> | <b>\$ 233,700.55</b>         | <b>\$ 251,950.00</b>          | <b>\$ 246,250.00</b>         |
| <b>2016 Series Beginning Fund Balance"September 30"</b> |                              | <b>\$ 314,375.54</b> | <b>\$ 314,375.54</b> | <b>\$ 313,750.54</b>         | <b>\$ 314,375.54</b>          | <b>\$ 309,863.54</b>         |

2021 Series

| Account                                                 | Account Name                 | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| 2021 Series Revenues                                    |                              |                      |                      |                              |                               |                              |
| 221-221-4700-221                                        | Interest Earned 2021 Series  | 8.51                 | -                    | 45.41                        |                               | -                            |
| 221-221-4750-221                                        |                              | -                    | -                    | -                            |                               | -                            |
| <b>Total 2021 Series Revenues</b>                       |                              | <b>\$ 8.51</b>       | <b>\$ -</b>          | <b>\$ 45.41</b>              | <b>\$ -</b>                   | <b>\$ -</b>                  |
| 2021 Series Expenditures                                |                              |                      |                      |                              |                               |                              |
| 221-221-5910-221                                        | 2021 Series Principal        | 455,000.00           | 455,000.00           | 470,000.00                   | 455,000.00                    | 470,000.00                   |
| 221-221-5920-221                                        | 2021 Series Interest         | 38,450.00            | 43,001.00            | 16,950.00                    | 43,001.00                     | 33,901.00                    |
| 221-221-5940-221                                        | 2021 Series Admin Fees       | 318.00               | 2,500.00             | 636.00                       | 2,500.00                      | 2,500.00                     |
| 221-221-5950-221                                        | 2021 Series Cost of Issuance | -                    | -                    | -                            | -                             |                              |
| <b>Total 2021 Series Expenditures</b>                   |                              | <b>\$ 493,768.00</b> | <b>\$ 500,501.00</b> | <b>\$ 487,586.00</b>         | <b>\$ 500,501.00</b>          | <b>\$ 506,401.00</b>         |
| 2021 Series Other Sources                               |                              |                      |                      |                              |                               |                              |
| 221-000-3320-000                                        | Transfer to 2021 Series DS   | 493,450.00           | -                    | 486,950.00                   | -                             | 507,002.00                   |
| 221-000-3321-000                                        | Transfer in 2021 Series DS   | -                    | 501,302.00           | -                            | 501,302.00                    | -                            |
| <b>Total 2021 Series Other Sources</b>                  |                              | <b>\$ 493,450.00</b> | <b>\$ 501,302.00</b> | <b>\$ 486,950.00</b>         | <b>\$ 501,302.00</b>          | <b>\$ 884,400.00</b>         |
| 2021 Series Other Uses                                  |                              |                      |                      |                              |                               |                              |
|                                                         |                              | -                    | -                    | -                            | -                             | -                            |
| <b>Total 2021 Series Other Uses</b>                     |                              | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                              | (309.49)             | 801.00               | (590.59)                     | 801.00                        | 377,999.00                   |
| <b>2021 Series Beginning Fund Balance"October 1"</b>    |                              | <b>\$ 2,626.00</b>   | <b>\$ 2,316.51</b>   | <b>\$ 2,316.51</b>           | <b>\$ 2,316.51</b>            | <b>\$ 3,117.51</b>           |
| <b>Total 2021 Series Funding Sources</b>                |                              | <b>\$ 496,084.51</b> | <b>\$ 503,618.51</b> | <b>\$ 489,311.92</b>         | <b>\$ 503,618.51</b>          | <b>\$ 887,517.51</b>         |
| <b>Total 2021 Series Funding Uses</b>                   |                              | <b>\$ 493,768.00</b> | <b>\$ 500,501.00</b> | <b>\$ 487,586.00</b>         | <b>\$ 500,501.00</b>          | <b>\$ 506,401.00</b>         |
| <b>2021 Series Beginning Fund Balance"September 30"</b> |                              | <b>\$ 2,316.51</b>   | <b>\$ 3,117.51</b>   | <b>\$ 1,725.92</b>           | <b>\$ 3,117.51</b>            | <b>\$ 381,116.51</b>         |

## Employee Health Insurance

Krysti Muhic  
Human Resource Director  
[Kmuhic@neoshomo.org](mailto:Kmuhic@neoshomo.org)

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | 906,004.54        | 994,948.00            | 699,041.87                 | 1,112,018.00           |
| Other Sources        | -                 | -                     | -                          | -                      |
|                      | -                 | -                     | -                          | -                      |
| <b>Total</b>         | <b>906,004.54</b> | <b>994,948.00</b>     | <b>699,041.87</b>          | <b>1,112,018.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                 | -                     | -                          | -                      |
| Supplies & Materials          | -                 | -                     | -                          | -                      |
| Maintenance & Repair          | -                 | -                     | -                          | -                      |
| Contractual Services          | -                 | -                     | -                          | -                      |
| Utilities                     | -                 | -                     | -                          | -                      |
| Other Expenses                | 912,709.82        | 1,019,017.00          | 671,915.14                 | 1,111,918.00           |
| Capital                       | -                 | -                     | -                          | -                      |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>912,709.82</b> | <b>1,019,017.00</b>   | <b>671,915.14</b>          | <b>1,111,918.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No FTE                  |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |



Health Insurance Fund

| Account                                                           | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------------------------------------|--------------------------------|----------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Health Insurance Fund Revenues                                    |                                |                      |                        |                              |                               |                              |
| 290-290-4700-290                                                  | Interest Earned-Employee Ins.  | 64.56                | 100.00                 | 12.03                        | 16.04                         | 100.00                       |
| 290-290-4950-290                                                  | City's Portion - Insur.        | 764,692.36           | 836,848.00             | 550,555.14                   | 820,805.00                    | 921,918.00                   |
| 290-290-4951-290                                                  | City Portion for Ins Shortage  | -                    | -                      | -                            | -                             | -                            |
| 290-290-4960-290                                                  | Employee Portion-Insurance     | 141,247.62           | 158,000.00             | 148,474.70                   | 197,966.27                    | 190,000.00                   |
| <b>Total Health Insurance Fund Revenues</b>                       |                                | <b>\$ 906,004.54</b> | <b>\$ 994,948.00</b>   | <b>\$ 699,041.87</b>         | <b>\$ 1,018,787.31</b>        | <b>\$ 1,112,018.00</b>       |
| Health Insurance Fund Expenditures                                |                                |                      |                        |                              |                               |                              |
| 290-290-6140-290                                                  | Health Insurance Fees Employee | 768,432.86           | 861,017.00             | 542,009.93                   | 722,679.91                    | 921,918.00                   |
| 290-290-6150-290                                                  | Health Insurance Fees Dependnt | 144,276.96           | 158,000.00             | 98,149.48                    | 130,865.97                    | 150,000.00                   |
| 290-291-6120-290                                                  | Dental Insurance -Employee     | -                    | -                      | 20,132.32                    | 26,843.09                     | 27,000.00                    |
| 290-291-6130-290                                                  | Dental Insurance Dependent     | -                    | -                      | 9,732.16                     | 12,976.21                     | 13,000.00                    |
| 290-291-6130-291                                                  | Life Insurance Employee        | -                    | -                      | 1,891.25                     | 2,521.67                      | -                            |
| <b>Total Health Insurance Fund Expenditures</b>                   |                                | <b>\$ 912,709.82</b> | <b>\$ 1,019,017.00</b> | <b>\$ 671,915.14</b>         | <b>\$ 895,886.85</b>          | <b>\$ 1,111,918.00</b>       |
| Health Insurance Fund Other Sources                               |                                |                      |                        |                              |                               |                              |
| 290-000-3390-000                                                  | Transfer In                    | -                    | -                      | -                            | -                             | -                            |
| <b>Total Health Insurance Fund Other Sources</b>                  |                                | <b>\$ -</b>          | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Health Insurance Fund Other Uses                                  |                                |                      |                        |                              |                               |                              |
| <b>Total Health Insurance Fund Other Uses</b>                     |                                | <b>\$ -</b>          | <b>\$ -</b>            | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                            |                                | (6,705.28)           | (24,069.00)            | 27,126.73                    | 122,900.45                    | 100.00                       |
| <b>Health Insurance Fund Beginning Fund Balance"October 1"</b>    |                                | <b>\$ 33,350.00</b>  | <b>\$ 26,644.72</b>    | <b>\$ 26,644.72</b>          | <b>\$ 26,644.72</b>           | <b>\$ 149,545.17</b>         |
| <b>Total Health Insurance Fund Funding Sources</b>                |                                | <b>\$ 939,354.54</b> | <b>\$ 1,021,592.72</b> | <b>\$ 725,686.59</b>         | <b>\$ 1,045,432.03</b>        | <b>\$ 1,261,563.17</b>       |
| <b>Total Health Insurance Fund Funding Uses</b>                   |                                | <b>\$ 912,709.82</b> | <b>\$ 1,019,017.00</b> | <b>\$ 671,915.14</b>         | <b>\$ 895,886.85</b>          | <b>\$ 1,111,918.00</b>       |
| <b>Health Insurance Fund Beginning Fund Balance"September 30"</b> |                                | <b>\$ 26,644.72</b>  | <b>\$ 2,575.72</b>     | <b>\$ 53,771.45</b>          | <b>\$ 149,545.17</b>          | <b>\$ 149,645.17</b>         |
|                                                                   |                                | <b>\$ (2.28)</b>     |                        |                              |                               |                              |

90-Day Reserve

Days reserve

#DIV/0!

| Health Insurance Fund |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | -        |
| Retirement Rate       | -        |

|                                |                               |
|--------------------------------|-------------------------------|
| Health Insurance Fund Revenues |                               |
| 290-290-4700-290               | Interest Earned-Employee Ins. |
| 290-290-4950-290               | City's Portion - Insur.       |
| 290-290-4951-290               | City Portion for Ins Shortage |
| 290-290-4960-290               | Employee Portion-Insurance    |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 100.00             |                                        |
| 921,918.00         |                                        |
|                    |                                        |
| 190,000.00         |                                        |
|                    |                                        |
|                    |                                        |
| 1,112,018.00       |                                        |

|                                    |                                |
|------------------------------------|--------------------------------|
| Health Insurance Fund Expenditures |                                |
| 290-290-6140-290                   | Health Insurance Fees Employee |
| 290-290-6150-290                   | Health Insurance Fees Dependnt |
| 290-291-6120-290                   | Dental Insurance -Employee     |
| 290-291-6130-290                   | Dental Insurance Dependent     |

| Amount       | Justification & Supporting Information |
|--------------|----------------------------------------|
| 921,918.00   |                                        |
| 150,000.00   |                                        |
| 27,000.00    |                                        |
| 13,000.00    |                                        |
|              |                                        |
| 1,111,918.00 |                                        |

|                                     |             |
|-------------------------------------|-------------|
| Health Insurance Fund Other Sources |             |
| 290-000-3390-000                    | Transfer In |

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

|                                  |  |
|----------------------------------|--|
| Health Insurance Fund Other Uses |  |
|----------------------------------|--|

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Water Admin

Leslie Forest  
Director of Finance  
[lforest@neoshomo.org](mailto:lforest@neoshomo.org)

Water Admin/Finance is responsible for the oversight of all fiscal activities and safeguarding of City funds. The department provides a variety of financial services to Council, staff, and citizens. Services include accounting and financial reporting, budgeting, payroll, accounts payable, billing, licensing, and special financial analysis.

| Revenue Category     | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                   | -                     | -                          | -                      |
| Intergovernmental    | 95,803.43           | -                     | -                          | -                      |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 3,118,342.27        | 3,938,821.00          | 2,761,055.98               | 4,653,979.00           |
| Fines & Forefeitures | -                   | -                     | -                          | -                      |
| Miscellaneous        | 42,871.95           | 26,000.00             | 148,888.56                 | 195,475.00             |
| Other Sources        | -                   | -                     | -                          | -                      |
| <b>Total</b>         | <b>3,257,017.65</b> | <b>3,964,821.00</b>   | <b>2,909,944.54</b>        | <b>4,849,454.00</b>    |
|                      | \$ 0.00             | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual       | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 416,906.91          | 429,489.00            | 324,533.98                 | 442,167.00             |
| Supplies & Materials          | 40,777.52           | 58,140.00             | 39,449.76                  | 64,952.00              |
| Maintenance & Repair          | 477.98              | 1,000.00              | 457.13                     | 1,000.00               |
| Contractual Services          | 716,993.98          | 686,839.00            | 525,931.62                 | 722,590.00             |
| Utilities                     | 4,800.00            | 5,040.00              | 3,252.85                   | 5,435.00               |
| Other Expenses                | 1,898.17            | 2,916.00              | 1,226.36                   | 3,427.00               |
| Capital                       | -                   | 5,000.00              | -                          | 5,000.00               |
| Other Uses                    | -                   | -                     | -                          | -                      |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,181,854.56</b> | <b>1,188,424.00</b>   | <b>894,851.70</b>          | <b>1,244,571.00</b>    |
|                               | \$ -                | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Customer Billings**- Increase for rates

**Computer Software** -Increase for server license upgrade

#### Decreases:

| Staffing Levels                  | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|----------------------------------|---------------|-----------------------|-----------------------|------------------------|
| Finance Director                 | 1             | 1                     | 1                     | 1                      |
| Water Admin Supervisor/Licensing | 1             | 1                     | 1                     | 1                      |
| AP/PR Specialist                 | 1             | 1                     | 1                     | 1                      |
| Billing Analyst                  | 1             | 1                     | 1                     | 1                      |
| Collections Clerk                | 2.5           | 2.5                   | 2.5                   | 2.5                    |
| <b>DEPARTMENT TOTAL</b>          | <b>6.5</b>    | <b>6.5</b>            | <b>6.5</b>            | <b>6.5</b>             |

| Account                                                 | Account Name                | FY2023<br>Actual        | FY2024<br>Budget        | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------------------------|-----------------------------|-------------------------|-------------------------|------------------------------|-------------------------------|------------------------------|
| Water Admin Revenues                                    |                             |                         |                         |                              |                               |                              |
| 500-510-3510-510                                        | Penalties/Utility Bills     | 104,932.38              | 107,000.00              | 88,628.72                    | 118,171.63                    | 107,000.00                   |
| 500-510-3530-510                                        | Residential Trash Billing   | 619,412.46              | 574,560.00              | 487,797.32                   | 650,396.43                    | 606,240.00                   |
| 500-510-3540-510                                        | Service Application Fee     | 7,825.00                | 8,300.00                | 4,770.00                     | 6,360.00                      | 8,300.00                     |
| 500-510-3560-510                                        | Lease Pmt. Tower Space      | 55,292.90               | 50,780.00               | 45,123.03                    | 50,780.00                     | 50,780.00                    |
| 500-510-3580-510                                        | Trash Tag Sales             | -                       | -                       | -                            | -                             | -                            |
| 500-510-3600-510                                        | Billing Customers-Water     | 2,330,879.53            | 3,198,181.00            | 2,134,736.91                 | 2,846,315.88                  | 3,881,659.00                 |
| 500-510-4201-510                                        | CARES Act                   | 95,803.43               | -                       | -                            | -                             | -                            |
| 500-510-4700-510                                        | Interest Earned-Water/WW    | 34,043.46               | 15,000.00               | 141,120.43                   | 188,160.57                    | 184,475.00                   |
| 500-510-4792-510                                        | Online Surcharge Fees       | 6,879.42                | 11,000.00               | 6,214.79                     | 11,000.00                     | 11,000.00                    |
| 500-510-4800-510                                        | Water Admin Miscellaneous   | 1,949.07                | -                       | 1,553.34                     | 2,071.12                      | -                            |
| <b>Total Water Admin Revenues</b>                       |                             | <b>\$ 3,257,017.65</b>  | <b>\$ 3,964,821.00</b>  | <b>\$ 2,909,944.54</b>       | <b>\$ 3,873,255.63</b>        | <b>\$ 4,849,454.00</b>       |
| Water Admin Expenditures                                |                             |                         |                         |                              |                               |                              |
| 500-510-5010-510                                        | Water Admin Salaries        | 284,322.64              | 315,399.00              | 239,136.89                   | 318,849.19                    | 321,965.00                   |
| 500-510-5020-510                                        | Water Admin Overtime        | 2,957.79                | 3,000.00                | 1,287.38                     | 1,716.51                      | 3,000.00                     |
| 500-510-5170-510                                        | Water Admin Social Security | 20,573.09               | 24,128.00               | 17,359.91                    | 23,146.55                     | 24,631.00                    |
| 500-510-5180-510                                        | Water Admin Retirement      | 14,918.63               | 15,770.00               | 11,971.64                    | 15,962.19                     | 19,318.00                    |
| 500-510-5190-510                                        | Water Admin Health Insuran  | 45,447.01               | 49,093.00               | 35,666.58                    | 47,555.44                     | 50,666.00                    |
| 500-510-5210-510                                        | Water Admin Workers Comp    | 44,216.95               | 13,815.00               | 13,295.30                    | 17,727.07                     | 14,103.00                    |
| 500-510-5260-510                                        | Water Admin Prof. Services  | 77,678.39               | 97,407.00               | 69,957.37                    | 93,276.49                     | 103,062.00                   |
| 500-510-5270-510                                        | Water Admin Credit Card Fe  | 57,084.43               | 41,000.00               | 47,799.54                    | 63,732.72                     | 41,000.00                    |
| 500-510-5273-510                                        | Collection Agency Charges   | 631.94                  | 2,000.00                | 451.66                       | 602.21                        | 2,000.00                     |
| 500-510-5300-510                                        | Water Admin Insurance & B   | -                       | 600.00                  | 100.00                       | 133.33                        | 600.00                       |
| 500-510-5330-510                                        | Water Admin Equipment Ma    | 477.98                  | 1,000.00                | 457.13                       | 609.51                        | 1,000.00                     |
| 500-510-5360-510                                        | Water Admin Member/Train    | 4,470.80                | 8,284.00                | 5,816.28                     | 7,755.04                      | 8,484.00                     |
| 500-510-5590-510                                        | Water Admin General Suppli  | 40,777.52               | 58,140.00               | 39,449.76                    | 52,599.68                     | 64,952.00                    |
| 500-510-5700-510                                        | Water Admin Comp., Softwa   | 1,898.17                | 2,916.00                | 1,226.36                     | 1,635.15                      | 3,427.00                     |
| 500-510-6260-510                                        | Trash Service Paid          | 581,599.22              | 545,832.00              | 407,623.05                   | 617,876.61                    | 575,928.00                   |
| 500-510-6350-510                                        | Water Admin Phones          | 4,800.00                | 5,040.00                | 3,252.85                     | 4,337.13                      | 5,435.00                     |
| 500-510-5790-510                                        | Water Admin Capital Purcha  | -                       | 5,000.00                | -                            | -                             | 5,000.00                     |
| <b>Total Water Admin Expenditures</b>                   |                             | <b>\$ 1,181,854.56</b>  | <b>\$ 1,188,424.00</b>  | <b>\$ 894,851.70</b>         | <b>\$ 1,267,514.81</b>        | <b>\$ 1,244,571.00</b>       |
| Water Admin Other Sources                               |                             |                         |                         |                              |                               |                              |
| <b>Total Water Admin Other Sources</b>                  |                             | <b>\$ -</b>             | <b>\$ -</b>             | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Water Admin Other Uses                                  |                             |                         |                         |                              |                               |                              |
| <b>Total Water Admin Other Uses</b>                     |                             | <b>\$ -</b>             | <b>\$ -</b>             | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                                  |                             |                         |                         |                              |                               |                              |
| Change in Fund Balance                                  |                             | 767,175.43              | 934,569.31              | 1,186,998.11                 | 737,618.70                    | (288,477.00)                 |
| <b>Water Admin Beginning Fund Balance"October 1"</b>    |                             | <b>\$ 6,735,139.00</b>  | <b>\$ 6,781,630.00</b>  | <b>\$ 6,781,630.00</b>       | <b>\$ 6,781,630.00</b>        | <b>\$ 6,764,848.70</b>       |
| <b>Total Water Admin Funding Sources</b>                |                             | <b>\$ 13,589,652.25</b> | <b>\$ 17,097,723.00</b> | <b>\$ 13,548,810.02</b>      | <b>\$ 16,435,761.12</b>       | <b>\$ 18,948,187.70</b>      |
| <b>Total Water Admin Funding Uses</b>                   |                             | <b>\$ 6,808,022.25</b>  | <b>\$ 10,135,923.69</b> | <b>\$ 6,167,781.91</b>       | <b>\$ 9,670,912.42</b>        | <b>\$ 13,272,916.00</b>      |
| <b>Water Admin Beginning Fund Balance"September 30"</b> |                             | <b>\$ 6,781,630.00</b>  | <b>\$ 6,961,799.31</b>  | <b>\$ 7,381,028.11</b>       | <b>\$ 6,764,848.70</b>        | <b>\$ 5,675,271.70</b>       |
| Water Replacement Reserve City Code Section 710.180     |                             |                         |                         |                              |                               |                              |
| Water Replacement Reserve City Code Section 710.180     |                             | 1,111,878.64            | 1,111,878.64            | 1,572,171.19                 | 1,379,953.22                  | 944,827.22                   |
| WW Replacement Reserve Ordinance No. 383-2009           |                             |                         |                         |                              |                               |                              |
| WW Replacement Reserve Ordinance No. 383-2009           |                             | 728,894.64              | 728,894.64              | 708,605.57                   | 642,254.68                    | 232,207.68                   |
| WW Reserve - Slip Line                                  |                             |                         |                         |                              |                               |                              |
| WW Reserve - Slip Line                                  |                             | 10,924.75               | 10,924.75               | 123,424.75                   | 160,924.75                    | 310,924.75                   |
| Meter Replacement Reserve                               |                             |                         |                         |                              |                               |                              |
| Meter Replacement Reserve                               |                             | 429,304.24              | 429,304.24              | 371,818.59                   | 283,247.03                    | 337,532.03                   |
| Main Replacement Reserve                                |                             |                         |                         |                              |                               |                              |
| Main Replacement Reserve                                |                             | 749,992.00              | 749,992.00              | 884,124.10                   | 836,623.10                    | 976,623.10                   |

Water Admin

| Account                                       | Account Name | FY2023<br>Actual | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------|--------------|------------------|------------------|------------------------------|-------------------------------|------------------------------|
| 2009B Restricted Funds Ordinance No. 421-2009 |              | 292,600.00       | 317,240.00       | 317,240.00                   | 317,240.00                    | 334,510.00                   |
| 2011 Restricted Funds Ordinance No. 489-2011  |              | 474,000.00       | 512,600.00       | 512,600.00                   | 512,600.00                    | 546,700.00                   |
| Total Restricted Funds                        |              | 3,797,594.27     | 3,860,834.27     | 4,489,984.20                 | 4,132,842.78                  | 3,683,324.78                 |
| Unrestricted Funds                            |              | 2,984,035.73     | 3,100,965.04     | 2,891,043.91                 | 2,632,005.92                  | 1,991,946.92                 |

-----  
90-Day Reserve

\$ 2,275,528.68

6,781,630.00  
-  
78.784  
283,581.77

| Water Administration  |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work Comp | Total Salary &<br>Benefits |
|----------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|-----------|----------------------------|
| Forest, Leslie L.    | 1    | 80,250.04  | \$ 79,657.54       | \$ 3,000.00           |                           | 6,094.00           | 4,780.00   | 7,795.00  | 3,490.00  | \$ 104,816.54              |
| Scott Megan D        | 1    | 49,178.74  | \$ 50,654.10       |                       |                           | 3,876.00           | 3,040.00   | 7,878.72  | 2,219.00  | \$ 67,667.83               |
| Johnson Renee        | 1    | 46,280.26  | \$ 48,505.21       |                       |                           | 3,711.00           | 2,911.00   | 7,795.00  | 2,125.00  | \$ 65,047.21               |
| Mendenhall Billie M. | 1    | 43,503.98  | \$ 44,809.10       |                       |                           | 3,428.00           | 2,689.00   | 7,795.00  | 1,963.00  | \$ 60,684.10               |
| Bloch, Tina M        | 1    | 34,990.54  | \$ 38,039.14       |                       |                           | 2,910.00           | 2,283.00   | 7,795.00  | 1,667.00  | \$ 52,694.14               |
| Open                 | 1    | 41,243.28  | \$ 35,142.28       |                       |                           | 2,689.00           | 2,109.00   | 7,795.00  | 1,540.00  | \$ 49,275.28               |
| Tomlinson, Nancy     | 0.5  | 21,511.62  | \$ 22,156.97       |                       |                           | 1,696.00           | 1,330.00   | 3,898.00  | 971.00    | \$ 30,051.97               |
|                      | 6.50 | 316,958.46 | 318,964.34         | 3,000.00              | -                         | 24,404.00          | 19,142.00  | 50,751.72 | 13,975.00 | \$ 430,237.07              |
| Overtime             |      | 1,716.51   | 3,000.00           |                       |                           |                    |            |           |           |                            |
| Part Time & Seasonal |      |            |                    |                       |                           |                    |            |           |           |                            |
| Total Salaries       |      | 318,674.97 | 321,964.34         |                       |                           |                    |            |           |           |                            |

|                               |                           | Department Request |                                        |
|-------------------------------|---------------------------|--------------------|----------------------------------------|
|                               |                           | Amount             | Justification & Supporting Information |
| Water Administration Revenues |                           |                    |                                        |
| 500-510-3510-510              | Penalties/Utility Bills   | 107,000.00         |                                        |
| 500-510-3530-510              | Residential Trash Billing | 606,240.00         | 4000 Accounts @ \$11.97                |
| 500-510-3540-510              | Service Application Fee   | 8,300.00           | 5 Year Historical Data                 |
| 500-510-3560-510              | Lease Pmt. Tower Space    | 50,780.00          |                                        |
| 500-510-3600-510              | Billing Customers-Water   |                    |                                        |
|                               |                           | 3,881,659.00       | 10 months of revenue new rates         |
| 500-510-4700-510              | Interest Earned-Water/WW  | 184,475.00         | 5 Year Historical Data                 |
| 500-510-4792-510              | Online Surcharge Fees     | 11,000.00          | 5 Year Historical Data                 |
|                               |                           |                    |                                        |
|                               |                           | 4,849,454.00       |                                        |

|                                   |                               | Amount       | Justification & Supporting Information                                                                                                                                                                                      |
|-----------------------------------|-------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Administration Expenditures |                               |              |                                                                                                                                                                                                                             |
| 500-510-5010-510                  | Water Admin Salaries          | 321,965.00   | License clerk 100% to Water Admin                                                                                                                                                                                           |
| 500-510-5020-510                  | Water Admin Overtime          | 3,000.00     |                                                                                                                                                                                                                             |
| 500-510-5170-510                  | Water Admin Social Security   | 24,631.00    |                                                                                                                                                                                                                             |
| 500-510-5180-510                  | Water Admin Retirement        | 19,318.00    |                                                                                                                                                                                                                             |
| 500-510-5190-510                  | Water Admin Health Insurance  | 50,666.00    |                                                                                                                                                                                                                             |
| 500-510-5210-510                  | Water Admin Workers Comp.     | 14,103.00    |                                                                                                                                                                                                                             |
| 500-510-5260-510                  | Water Admin Prof. Services    |              |                                                                                                                                                                                                                             |
|                                   |                               | 103,062.00   | Audit \$17500, Folder Stuffer Lease \$3000, Laserfiche \$300, Springbrook \$35155, Copier Mtce \$3000, Stronghold \$29,000, AdComp kiosk \$9,147, AdComp Ecommerce fee \$960                                                |
| 500-510-5270-510                  | Water Admin Credit Card Fees  | 41,000.00    | Historical w/ CPI adj                                                                                                                                                                                                       |
| 500-510-5273-510                  | Collection Agency Charges     | 2,000.00     | Historical -Dependent on Collections                                                                                                                                                                                        |
| 500-510-5300-510                  | Water Admin Insurance & Bonds | 600.00       | bonds only                                                                                                                                                                                                                  |
| 500-510-5330-510                  | Water Admin Equipment Maint.  | 1,000.00     |                                                                                                                                                                                                                             |
| 500-510-5360-510                  | Water Admin Member/Train/Trvl |              |                                                                                                                                                                                                                             |
|                                   |                               | 8,484.00     | conference \$800, AGA seminar/conference/CPE \$600, GFOA National \$2,200, MOCCFOA \$15, Staff training \$500, Updated GAAFR literature \$750, CPFO trainings/testing \$1,800, FLSA \$99, MML Conference \$1,500            |
| 500-510-5590-510                  | Water Admin General Supplies  |              |                                                                                                                                                                                                                             |
|                                   |                               | 64,952.00    | Postage \$1200, Postage permit \$235, Water Billing Postage \$52,000, copy paper \$1400, envelopes \$3600, Budget Supplies \$100, Thermal receipt paper \$130, KIOSK Paper \$200 Office Supplies \$5535, uniform shorts 352 |
| 500-510-5700-510                  | Water Admin Comp., Software   | 3,427.00     | Adobe License Renewal \$204, firewall \$210, Office 365 \$1,425.15, Cyber Software \$799.97, server license upgrade \$787.60                                                                                                |
| 500-510-6260-510                  | Trash Service Paid            | 575,928.00   | 95% of Billing/per contract                                                                                                                                                                                                 |
| 500-510-6350-510                  | Water Admin Phones            | 5,435.00     |                                                                                                                                                                                                                             |
| 500-510-5790-510                  | Water Admin Capital Purchase  |              |                                                                                                                                                                                                                             |
|                                   |                               | 5,000.00     | Utility Software Xpress Pay (email bills, customer view, includes annual and monthly fees for first year)                                                                                                                   |
|                                   |                               | 1,244,571.00 |                                                                                                                                                                                                                             |

Water Administration Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

Water Administration Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Distribution & Maintenance

Nate Siler  
Public Works Director

[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

The primary responsibilities are to respond to customer service calls as they are received . Work activities include but are not limited to: daily, weekly, monthly and yearly routine preventative, and corrective maintenance activities for water main/service lines, water valves, fire hydrant, and install and repair water meters, mark the locations of mains and services in anticipation of underground construction, and assist in the annual flushing program and valve maintenance program.

|                      |                   | FY2024            | FY2024            | FY2025            |
|----------------------|-------------------|-------------------|-------------------|-------------------|
| Revenue              | FY2023            | Adopted           | Current YTD       | Proposed          |
| Category             | Actual            | Budget            | Actuals           | Budget            |
| Taxes                | -                 | -                 | -                 | -                 |
| Intergovernmental    | -                 | -                 | -                 | -                 |
| Licenses & Permits   | -                 | -                 | -                 | -                 |
| Charges for Services | -                 | -                 | -                 | -                 |
| Fines & Forfeitures  | -                 | -                 | -                 | -                 |
| Miscellaneous        | 701.85            | -                 | 7,286.84          | -                 |
| Other Sources        | 249,996.00        | 250,000.00        | 187,497.00        | 250,000.00        |
| <b>Total</b>         | <b>250,697.85</b> | <b>250,000.00</b> | <b>194,783.84</b> | <b>250,000.00</b> |
|                      | \$ -              | \$ -              | \$ -              | \$ -              |

|                               |                     | FY2024              | FY2024            | FY2025              |
|-------------------------------|---------------------|---------------------|-------------------|---------------------|
| Expense                       | FY2023              | Adopted             | Current YTD       | Proposed            |
| Category                      | Actual              | Budget              | Actuals           | Budget              |
| Salaries, Benefits, & Support | 413,875.00          | 594,900.00          | 375,850.62        | 608,606.00          |
| Supplies & Materials          | 2,524.39            | 4,200.00            | 1,740.01          | 4,200.00            |
| Maintenance & Repair          | 174,357.55          | 265,236.00          | 185,612.87        | 261,260.00          |
| Contractual Services          | 47,166.25           | 47,845.00           | 24,341.57         | 51,251.00           |
| Utilities                     | 14,005.25           | 14,148.00           | 8,914.58          | 14,300.00           |
| Other Expenses                | 337,119.59          | 266,004.00          | 22,656.74         | 265,972.00          |
| Capital                       | 8,679.36            | 181,000.00          | 125,292.73        | 1,375,324.00        |
| Other Uses                    | 249,996.00          | 250,000.00          | 187,497.00        | 250,000.00          |
| Debt Service                  | -                   | -                   | -                 | -                   |
| <b>Total</b>                  | <b>1,247,723.39</b> | <b>1,623,333.00</b> | <b>931,906.12</b> | <b>2,830,913.00</b> |
|                               | \$ -                | \$ -                | \$ (0.00)         | \$ -                |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**Member/Train/Travel-** Increase for additional license

**Capital-** Increase for 20 Plan Repair and Replacement

#### Decreases:

|                          | FY2023   | FY2024   | FY2024   | FY2025   |
|--------------------------|----------|----------|----------|----------|
| Staffing Levels          | Actual   | Adopted  | Current  | Proposed |
|                          | Budget   | Budget   | Budget   | Budget   |
| D&M Foreman              | 2        | 2        | 2        | 2        |
| D&M Maintenance Mgr      | 1        | 1        | 1        | 1        |
| D&M Superintendent       | 1        | 1        | 1        | 1        |
| D&M Labor                | 4        | 4        | 4        | 4        |
| Administrative Assistant | 1        | 1        | 1        | 1        |
| <b>DEPARTMENT TOTAL</b>  | <b>9</b> | <b>9</b> | <b>9</b> | <b>9</b> |



|                            |
|----------------------------|
| Distribution & Maintenance |
|----------------------------|

| Account                                                   | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------------------------------|--------------------------------|----------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Distribution & Maintenance Revenues                       |                                |                      |                        |                              |                               |                              |
| 500-530-4760-530                                          | Insurance Proceeds             | -                    | -                      | -                            | -                             | -                            |
| 500-530-4800-530                                          | D&M Miscellaneous              | 701.85               | -                      | 4,576.84                     | 6,102.45                      | -                            |
| 500-530-4820-530                                          | Sale of Property               | -                    | -                      | 2,710.00                     | 2,710.00                      | -                            |
| 500-530-4200-530                                          | Grant Revenue                  | -                    | -                      | -                            | -                             | -                            |
| <b>Total Distribution &amp; Maintenance Revenues</b>      |                                | <b>\$ 701.85</b>     | <b>\$ -</b>            | <b>\$ 7,286.84</b>           | <b>\$ 8,812.45</b>            | <b>\$ -</b>                  |
| Distribution & Maintenance Expenditures                   |                                |                      |                        |                              |                               |                              |
| 500-530-5010-530                                          | Water Distribution Salaries    | 314,708.48           | 380,656.00             | 258,438.79                   | 344,585.05                    | 383,317.00                   |
| 500-530-5020-530                                          | Water Distribution Overtime    | 25,529.03            | 25,000.00              | 19,024.12                    | 25,365.49                     | 27,000.00                    |
| 500-530-5070-530                                          | Availability Allowance         | 1,770.00             | 1,800.00               | 1,155.00                     | 1,800.00                      | 1,800.00                     |
| 500-530-5170-530                                          | Water Distribution Soc'l Sec.  | 25,985.87            | 30,804.00              | 21,159.16                    | 28,212.21                     | 31,160.00                    |
| 500-530-5180-530                                          | Water Distribution Retirement  | 17,220.10            | 20,133.00              | 10,923.96                    | 14,565.28                     | 24,440.00                    |
| 500-530-5190-530                                          | Water Distribution Health Ins. | 60,297.61            | 67,975.00              | 42,296.12                    | 56,394.83                     | 70,153.00                    |
| 500-530-5210-530                                          | Water Distribution Work Comp   | 46,043.40            | 17,637.00              | 16,152.30                    | 21,536.40                     | 17,841.00                    |
| 500-530-5185-530                                          | Pension Expense                | (84,260.00)          | 40,000.00              | -                            | -                             | 40,000.00                    |
| 500-530-5260-530                                          | Water Distribution Prof. Svcs  | 44,636.45            | 34,620.00              | 11,293.20                    | 15,057.60                     | 35,120.00                    |
| 500-530-5300-530                                          | Water Distribution Ins & Bonds | 2,529.80             | 13,225.00              | 13,048.37                    | 17,397.83                     | 16,131.00                    |
| 500-530-5320-530                                          | Water Distrib. Facility Maint  | 101,392.34           | 108,000.00             | 101,565.43                   | 135,420.57                    | 108,000.00                   |
| 500-530-5330-530                                          | Water Distribution Equip Maint | 26,992.43            | 42,000.00              | 30,682.54                    | 40,910.05                     | 43,260.00                    |
| 500-530-5360-530                                          | Water Distrib. Mem/Train/Trvl  | 2,147.20             | 5,000.00               | 2,792.15                     | 3,722.87                      | 7,000.00                     |
| 500-530-5380-530                                          | Water Distribution Uniforms    | 4,433.31             | 5,895.00               | 3,909.02                     | 5,212.03                      | 5,895.00                     |
| 500-530-5530-530                                          | Water Distribution Fuels       | 29,077.83            | 36,750.00              | 19,935.19                    | 26,580.25                     | 36,750.00                    |
| 500-530-5590-530                                          | Water Distrib. Gen Supplies    | 2,524.39             | 4,200.00               | 1,740.01                     | 2,320.01                      | 4,200.00                     |
| 500-530-5620-530                                          | Water Distribution Line Repair | 45,972.78            | 115,236.00             | 53,364.90                    | 71,153.20                     | 110,000.00                   |
| 500-530-5700-530                                          | Water Distrib. Comp., Software | 807.61               | 2,954.00               | 643.43                       | 857.91                        | 2,922.00                     |
| 500-530-5780-530                                          | D&M Vehicle                    | -                    | -                      | -                            | -                             | 85,000.00                    |
| 500-530-5790-530                                          | Water Dist Capital Purchases   | 7,748.50             | 181,000.00             | 125,292.73                   | 167,056.97                    | 1,290,324.00                 |
| 500-530-5990-530                                          | Depreciation                   | 304,101.12           | 220,000.00             | -                            | 220,000.00                    | 220,000.00                   |
| 500-530-6300-530                                          | Water Distribution Electricity | 5,857.68             | 6,372.00               | 1,958.28                     | 2,611.04                      | 6,300.00                     |
| 500-530-6310-530                                          | Water Distrib. Heating Fuels   | 2,209.48             | 2,106.00               | 2,703.43                     | 3,604.57                      | 2,100.00                     |
| 500-530-6350-530                                          | Water Dist Telephones          | 5,938.09             | 5,670.00               | 4,252.87                     | 5,670.49                      | 5,900.00                     |
| 500-530-6380-530                                          | Lease Purchase Payments        | 930.86               | -                      | -                            | -                             | -                            |
| 500-530-6390-530                                          | Water Distribution Minor Equip | 3,133.03             | 6,300.00               | 2,078.12                     | 2,770.83                      | 6,300.00                     |
| <b>Total Distribution &amp; Maintenance Expenditures</b>  |                                | <b>\$ 997,727.39</b> | <b>\$ 1,373,333.00</b> | <b>\$ 744,409.12</b>         | <b>\$ 1,212,805.49</b>        | <b>\$ 2,580,913.00</b>       |
| Distribution & Maintenance Other Sources                  |                                |                      |                        |                              |                               |                              |
| 500-000-3364-000                                          | Trns to Main Replacement       | 249,996.00           | 250,000.00             | 187,497.00                   | 250,000.00                    | 250,000.00                   |
| <b>Total Distribution &amp; Maintenance Other Sources</b> |                                | <b>\$ 249,996.00</b> | <b>\$ 250,000.00</b>   | <b>\$ 187,497.00</b>         | <b>\$ 250,000.00</b>          | <b>\$ 250,000.00</b>         |
| Distribution & Maintenance Other Uses                     |                                |                      |                        |                              |                               |                              |
| 500-000-3264-000                                          | Trns to Main Replacement       | 249,996.00           | 250,000.00             | 187,497.00                   | 250,000.00                    | 250,000.00                   |
| <b>Total Distribution &amp; Maintenance Other Uses</b>    |                                | <b>\$ 249,996.00</b> | <b>\$ 250,000.00</b>   | <b>\$ 187,497.00</b>         | <b>\$ 250,000.00</b>          | <b>\$ 250,000.00</b>         |
| Change in Fund Balance                                    |                                | (997,025.54)         | (1,373,333.00)         | (737,122.28)                 | (1,203,993.04)                | (2,580,913.00)               |

| D&M                   |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE              | # | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|------------------|---|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Forcum, Brandon  | 1 | 52,000.52  | \$ 52,560.54       | \$ 1,000.00           | 360                       | 4,021.00           | 3,154.00   | 7,795.00  | 2,303.00     | \$ 71,193.54               |
| Baslee, Grant    | 1 | 34,499.92  | \$ 36,550.99       |                       | 360                       | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 51,297.99               |
| Oxindine, Hunter | 1 | 34,486.40  | \$ 36,550.99       |                       |                           | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 50,937.99               |
| Brozek, Jane     | 1 | 43,401.80  | \$ 44,703.85       |                       | 360                       | 3,420.00           | 2,683.00   | 7,795.00  | 1,959.00     | \$ 60,920.85               |
| Combs, Cody      | 1 | 45,999.98  | \$ 46,379.98       | \$ 1,000.00           | 360                       | 3,549.00           | 2,783.00   | 7,795.00  | 2,032.00     | \$ 63,898.98               |
| McCool, Michael  | 1 | 41,999.88  | \$ 42,259.88       | \$ 1,000.00           | 360                       | 3,233.00           | 2,536.00   | 7,795.00  | 1,851.00     | \$ 59,034.88               |
| Hixon, Fred      | 1 | 34,486.40  | \$ 36,550.99       |                       |                           | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 50,937.99               |
| Murphy, Danny    | 1 | 46,804.42  | \$ 48,208.55       |                       |                           | 3,688.00           | 2,893.00   | 7,795.00  | 2,112.00     | \$ 64,696.55               |
| Murphy, Wyatt    | 1 | 33,966.40  | \$ 36,550.99       |                       |                           | 2,797.00           | 2,194.00   | 7,795.00  | 1,601.00     | \$ 50,937.99               |
| 9.00             |   | 367,645.72 | 380,316.77         | 3,000.00              | 1,800.00                  | 29,099.00          | 22,825.00  | 70,155.00 | 16,661.00    | \$ 523,856.77              |

|                      |           |           |
|----------------------|-----------|-----------|
| Overtime             | 25,365.49 | 27,000.00 |
| Part Time & Seasonal |           |           |

|                |            |            |
|----------------|------------|------------|
| Total Salaries | 393,011.21 | 407,316.77 |
|----------------|------------|------------|

| Department Request |                                        |  |
|--------------------|----------------------------------------|--|
| Amount             | Justification & Supporting Information |  |
| D&M Revenues       |                                        |  |
| 500-530-4820-530   | Sale of Property                       |  |
| 500-530-4200-530   | Grant Revenue                          |  |
|                    |                                        |  |
|                    |                                        |  |

|                  |                                | Amount     | Justification & Supporting Information                                                                                                                                                                                                                  |
|------------------|--------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D&M Expenditures |                                |            |                                                                                                                                                                                                                                                         |
| 500-530-5010-530 | Water Distribution Salaries    | 383,317.00 |                                                                                                                                                                                                                                                         |
| 500-530-5020-530 | Water Distribution Overtime    | 27,000.00  | Increase due to wage increases                                                                                                                                                                                                                          |
| 500-530-5070-530 | Availability Allowance         | 1,800.00   |                                                                                                                                                                                                                                                         |
| 500-530-5170-530 | Water Distribution Soc'l Sec.  | 31,160.00  |                                                                                                                                                                                                                                                         |
| 500-530-5180-530 | Water Distribution Retirement  | 24,440.00  |                                                                                                                                                                                                                                                         |
| 500-530-5190-530 | Water Distribution Health Ins. | 70,153.00  |                                                                                                                                                                                                                                                         |
| 500-530-5210-530 | Water Distribution Work Comp   | 17,841.00  |                                                                                                                                                                                                                                                         |
| 500-530-5185-530 | Pension Expense                | 40,000.00  | YE entry from auditor -enterprise fund                                                                                                                                                                                                                  |
| 500-530-5260-530 | Water Distribution Prof. Svcs  |            | Engineering services as needed, \$1500 for MRWA membership, Stronghold \$3000, Security alarm \$200, copier agreement \$100, Locates \$2000, KC Railway contracts \$2000, Fire & sprinkler inspection \$300, AED \$100, DOT randoms \$200, Stronghold 4 |
|                  |                                | 35,120.00  |                                                                                                                                                                                                                                                         |
| 500-530-5300-530 | Water Distribution Ins & Bonds | 16,131.00  | Property Ins                                                                                                                                                                                                                                            |
| 500-530-5320-530 | Water Distrib. Facility Maint  | 108,000.00 | Annual Tower Maintenance \$98,000                                                                                                                                                                                                                       |
| 500-530-5330-530 | Water Distribution Equip Maint | 43,260.00  | Expected equipment repairs and maintenance                                                                                                                                                                                                              |
| 500-530-5360-530 | Water Distrib. Mem/Train/Trvl  |            | \$1,000 for DS training, MRWA conference \$5000, Annual dues, and certifications \$1000                                                                                                                                                                 |
|                  |                                | 7,000.00   |                                                                                                                                                                                                                                                         |
| 500-530-5380-530 | Water Distribution Uniforms    |            |                                                                                                                                                                                                                                                         |
|                  |                                | 5,895.00   | \$5,895 for jeans, boots, coat, vest and hat allowance                                                                                                                                                                                                  |
| 500-530-5530-530 | Water Distribution Fuels       | 36,750.00  |                                                                                                                                                                                                                                                         |
| 500-530-5590-530 | Water Distrib. Gen Supplies    | 4,200.00   |                                                                                                                                                                                                                                                         |
| 500-530-5620-530 | Water Distribution Line Repair |            | Pricing continuing to rise for materials, PO 2757 Joplin Supply \$4,215, PO 2787 Consolidated Pipe \$2,064                                                                                                                                              |
|                  |                                | 110,000.00 |                                                                                                                                                                                                                                                         |
| 500-530-5700-530 | Water Distrib. Comp., Software |            | firewall \$210, Office 365 \$712.58, Cyber Software \$399.98, server license upgrade \$98.45                                                                                                                                                            |
|                  |                                | 2,922.00   |                                                                                                                                                                                                                                                         |
| 500-530-5780-530 | D&M Vehicle                    | 85,000.00  | 1 ton service truck \$85,000,                                                                                                                                                                                                                           |
| D&M Expenditures |                                | Amount     | Justification & Supporting Information                                                                                                                                                                                                                  |

|                  |                                |              |                                                                                                                                                                                                                                                                                                                         |
|------------------|--------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 500-530-5790-530 | Water Dist Capital Purchases   |              | Reconfigure City-Upper and City-Downtown pressure zone boundary to eliminate a highpressure area, City-Upper Pressure zone water line replacement, reserve for needed water main replacement per schedule. Hydraulic power pack \$12,000, Street saw \$5,000, Electricity and lights for storage barn 50% share \$7,500 |
|                  |                                | 1,290,324.00 |                                                                                                                                                                                                                                                                                                                         |
| 500-530-5990-530 | Depreciation                   | 220,000.00   |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6300-530 | Water Distribution Electricity | 6,300.00     |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6310-530 | Water Distrib. Heating Fuels   | 2,100.00     |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6350-530 | Water Dist Telephones          | 5,900.00     |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6380-530 | Lease Purchase Payments        |              |                                                                                                                                                                                                                                                                                                                         |
| 500-530-6390-530 | Water Distribution Minor Equip | 6,300.00     |                                                                                                                                                                                                                                                                                                                         |
|                  |                                | 2,580,913.00 |                                                                                                                                                                                                                                                                                                                         |

|                   |                                |            |                                        |
|-------------------|--------------------------------|------------|----------------------------------------|
| D&M Other Sources |                                | Amount     | Justification & Supporting Information |
| 500-000-3364-000  | Trns to Main Replacement       | 250,000.00 |                                        |
| 500-000-3353-000  | Transfer fm Water -Rplcmt Rsrv |            |                                        |

|                  |                          |            |                                        |
|------------------|--------------------------|------------|----------------------------------------|
| D&M Other Uses   |                          | Amount     | Justification & Supporting Information |
| 500-000-3264-000 | Trns to Main Replacement | 250,000.00 |                                        |

## Meter Department

Nate Siler  
Public Works Director  
[Nsiler@neoshomo.org](mailto:Nsiler@neoshomo.org)

Read all 5,700 residential, commercial and industrial customer meters. They also perform all the required daily, weekly, monthly, and yearly testing of the drinking water system to ensure we comply with both state and federal guidelines. Repair to residential meters, AMR equipment, vaults, curb stops and general maintenance.

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | -                 | -                     | -                          | -                      |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | 186,889.92        | 188,000.00            | 157,974.79                 | 188,000.00             |
| Fines & Forfeitures  | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | 202,788.00        | 1,135,980.00          | 696,453.00                 | 1,179,198.00           |
| <b>Total</b>         | <b>389,677.92</b> | <b>1,323,980.00</b>   | <b>854,427.79</b>          | <b>1,367,198.00</b>    |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | 216,816.79        | 346,012.00            | 220,978.46                 | 302,860.00             |
| Supplies & Materials          | -                 | -                     | -                          | -                      |
| Maintenance & Repair          | -                 | -                     | -                          | -                      |
| Contractual Services          | -                 | -                     | -                          | -                      |
| Utilities                     | -                 | -                     | -                          | -                      |
| Other Expenses                | -                 | -                     | -                          | -                      |
| Capital                       | -                 | -                     | -                          | -                      |
| Other Uses                    | 202,788.00        | 1,135,980.00          | 696,453.00                 | 1,179,198.00           |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>419,604.79</b> | <b>1,481,992.00</b>   | <b>917,431.46</b>          | <b>1,482,058.00</b>    |
|                               | \$ -              | \$ -                  | \$ -                       | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Meter Sets**- Carry over FY2024 open POS to be completed FY2025

#### Decreases:

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| Meter Foreman           |               | 1                     | 1                     | 1                      |
| Meter Readers           |               | 2                     | 2                     | 2                      |
| <b>DEPARTMENT TOTAL</b> |               | <b>3</b>              | <b>3</b>              | <b>3</b>               |

|        |
|--------|
| Meters |
|--------|

| Account                           | Account Name                   | FY2023<br>Actual     | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-----------------------------------|--------------------------------|----------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| Meters Revenues                   |                                |                      |                        |                              |                               |                              |
| 500-530-3500-531                  | Meter Fee                      | 136,016.97           | 130,000.00             | 101,059.93                   | 130,000.00                    | 130,000.00                   |
| 500-530-3610-531                  | Water Taps                     | 50,872.95            | 58,000.00              | 56,914.86                    | 58,000.00                     | 58,000.00                    |
| 500-530-4800-531                  | Meter Misc. Revenue            | -                    | -                      | -                            | -                             | -                            |
| <b>Total Meters Revenues</b>      |                                | <b>\$ 186,889.92</b> | <b>\$ 188,000.00</b>   | <b>\$ 157,974.79</b>         | <b>\$ 188,000.00</b>          | <b>\$ 188,000.00</b>         |
| Meters Expenditures               |                                |                      |                        |                              |                               |                              |
| 500-530-5010-531                  | Meter Read/Mtnce. Salaries     | 99,141.15            | 120,757.00             | 82,882.87                    | 110,510.49                    | 126,013.00                   |
| 500-530-5020-531                  | Meter Reading Overtime         | 7,112.56             | 8,000.00               | 5,352.32                     | 7,136.43                      | 8,000.00                     |
| 500-530-5030-531                  | Meter Program Part Time        | 12,213.75            | 22,620.00              | 6,843.75                     | 9,125.00                      | 15,000.00                    |
| 500-530-5070-531                  | Availability Allowance         | 990.00               | 1,080.00               | 540.00                       | 720.00                        | 1,080.00                     |
| 500-530-5170-531                  | Meter Program Social Security  | 9,162.90             | 11,504.00              | 7,257.44                     | 9,676.59                      | 11,247.00                    |
| 500-530-5180-531                  | Meter Program Retirement       | 5,713.02             | 6,388.00               | 3,505.76                     | 4,674.35                      | 7,921.00                     |
| 500-530-5190-531                  | Meter Prog Health Insurance    | 19,497.95            | 22,659.00              | 14,893.00                    | 19,857.33                     | 23,385.00                    |
| 500-530-5210-531                  | Meter Program Workers Comp.    | 3,683.65             | 6,587.00               | 5,335.50                     | 7,114.00                      | 6,440.00                     |
| 500-530-5300-531                  | Meter Program Insurance & Bond | -                    | -                      | -                            | -                             | -                            |
| 500-530-5330-531                  | Meter Program Equipment Maint. | 11,522.10            | 26,250.00              | 2,949.14                     | 3,932.19                      | 15,000.00                    |
| 500-530-5380-531                  | Meter Program Uniforms         | 945.97               | 1,875.00               | 1,333.88                     | 1,778.51                      | 1,875.00                     |
| 500-530-5530-531                  | Meter Program Fuels/Lubricants | 8,156.76             | 7,350.00               | 2,397.65                     | 3,196.87                      | 7,350.00                     |
| 500-530-5590-531                  | Meter Program General Supplies | 1,742.56             | 1,575.00               | 2,545.72                     | 3,394.29                      | 1,575.00                     |
| 500-530-5650-531                  | Meter Program Meter Sets       | 36,516.28            | 55,000.00              | 34,490.60                    | 45,987.47                     | 75,715.00                    |
| 500-530-5660-531                  | Meter Replacement Program      | -                    | -                      | -                            | -                             | -                            |
| 500-530-5700-531                  | Meter Reading Comp/Software    | 418.14               | 2,146.00               | 248.25                       | 331.00                        | 2,259.00                     |
| 500-530-5790-531                  | Meter Program Capital Equip    | -                    | 52,221.00              | 50,402.58                    | 67,203.44                     | -                            |
| <b>Total Meters Expenditures</b>  |                                | <b>\$ 216,816.79</b> | <b>\$ 346,012.00</b>   | <b>\$ 220,978.46</b>         | <b>\$ 294,637.95</b>          | <b>\$ 302,860.00</b>         |
| Meters Other Sources              |                                |                      |                        |                              |                               |                              |
| 500-000-3353-000                  | Transfer fm Water -Rplcmt Rsrv | 202,788.00           | 1,135,980.00           | 696,453.00                   | 1,135,980.00                  | 1,179,198.00                 |
| <b>Total Meters Other Sources</b> |                                | <b>\$ 202,788.00</b> | <b>\$ 1,135,980.00</b> | <b>\$ 696,453.00</b>         | <b>\$ 1,135,980.00</b>        | <b>\$ 1,179,198.00</b>       |
| Meters Other Uses                 |                                |                      |                        |                              |                               |                              |
| 500-000-3253-000                  | Transfer to Water Rplcmt Resrv | 202,788.00           | 1,135,980.00           | 696,453.00                   | 1,135,980.00                  | 1,179,198.00                 |
| <b>Total Meters Other Uses</b>    |                                | <b>\$ 202,788.00</b> | <b>\$ 1,135,980.00</b> | <b>\$ 696,453.00</b>         | <b>\$ 1,135,980.00</b>        | <b>\$ 1,179,198.00</b>       |
| Change in Fund Balance            |                                | (29,926.87)          | (158,012.00)           | (63,003.67)                  | (106,637.95)                  | (114,860.00)                 |

| Meter Replacement     |          |
|-----------------------|----------|
| Health Insurance Rate | 7,794.72 |
| Work Comp Rate        | 4.38%    |
| Retirement Rate       | 6.00%    |

Payroll Detail

| FTE                  | #    | FY2024     | FY2025<br>Budgeted | Incentive/<br>License | Availability<br>Allowance | Social<br>Security | Retirement | Insurance | Work<br>Comp | Total Salary &<br>Benefits |
|----------------------|------|------------|--------------------|-----------------------|---------------------------|--------------------|------------|-----------|--------------|----------------------------|
| Strohl, Matthew      | 1    | 45,358.82  | \$ 47,066.62       | \$ 1,000.00           | 360                       | 3,601.00           | 2,824.00   | 7,795.00  | 2,062.00     | \$ 64,708.62               |
| Wirth, Jordan        | 1    | 34,597.68  | \$ 36,374.74       |                       | 360                       | 2,783.00           | 2,183.00   | 7,795.00  | 1,594.00     | \$ 51,089.74               |
| Beckett, Jessie      | 1    | 39,682.76  | \$ 40,571.13       | \$ 1,000.00           | 360                       | 3,104.00           | 2,435.00   | 7,795.00  | 1,778.00     | \$ 57,043.13               |
|                      | 3.00 | 119,639.26 | 124,012.49         | 2,000.00              | 1,080.00                  | 9,488.00           | 7,442.00   | 23,385.00 | 5,434.00     | \$ 172,841.49              |
| Overtime             |      | 7,136.43   | 8,000.00           |                       |                           |                    |            |           |              |                            |
| Part Time & Seasonal |      |            | 15,000.00          |                       |                           |                    |            |           |              |                            |
| Total Salaries       |      | 126,775.69 | 147,012.49         |                       |                           |                    |            |           |              |                            |

| Department Request          |                                        |
|-----------------------------|----------------------------------------|
| Amount                      | Justification & Supporting Information |
| 500-530-3500-531 Meter Fee  | 130,000.00                             |
| 500-530-3610-531 Water Taps | 58,000.00 5 year historical average    |
|                             |                                        |
|                             | 188,000.00                             |

| Meter Replacement Expenditures                  |                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Amount                                          | Justification & Supporting Information                                                                |
| 500-530-5010-531 Meter Read/Mtnce. Salaries     | 126,013.00                                                                                            |
| 500-530-5020-531 Meter Reading Overtime         | 8,000.00                                                                                              |
| 500-530-5030-531 Meter Program Part Time        | 15,000.00 Reduce, Carter works 1-2 days a week                                                        |
| 500-530-5070-531 Availability Allowance         | 1,080.00                                                                                              |
| 500-530-5170-531 Meter Program Social Security  | 11,247.00                                                                                             |
| 500-530-5180-531 Meter Program Retirement       | 7,921.00                                                                                              |
| 500-530-5190-531 Meter Prog Health Insurance    | 23,385.00                                                                                             |
| 500-530-5210-531 Meter Program Workers Comp.    | 6,440.00                                                                                              |
| 500-530-5300-531 Meter Program Insurance & Bond | -                                                                                                     |
| 500-530-5330-531 Meter Program Equipment Maint. | 15,000.00 MXU damages and equipment as needed                                                         |
| 500-530-5380-531 Meter Program Uniforms         | 1,875.00 \$1,875 for jeans, boots, coat, vest and hat allowance                                       |
| 500-530-5530-531 Meter Program Fuels/Lubricants | 7,350.00                                                                                              |
| 500-530-5590-531 Meter Program General Supplies | 1,575.00                                                                                              |
| 500-530-5650-531 Meter Program Meter Sets       | 75,715.00 PO 2774 Core & Main \$20,715                                                                |
| 500-530-5660-531 Meter Replacement Program      |                                                                                                       |
| 500-530-5700-531 Meter Reading Comp/Software    | 2,259.00 \$1,949.94 for Sensus yearly software update, firewall \$210, server license upgrade \$98.45 |
| 500-530-5790-531 Meter Program Capital Equip    |                                                                                                       |
|                                                 |                                                                                                       |
|                                                 | 302,860.00                                                                                            |

| Meter Replacement Other Sources                 |                                        |
|-------------------------------------------------|----------------------------------------|
| Amount                                          | Justification & Supporting Information |
| 500-000-3353-000 Transfer fm Water -Rplcmt Rsrv | 1,179,198.00                           |

| Meter Replacement Other Uses                   |                                        |
|------------------------------------------------|----------------------------------------|
| Amount                                         | Justification & Supporting Information |
| 500-000-3253-000 Transfer to Water Rplcmt Rsrv | 1,179,198.00                           |

## Filtration

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

| Revenue Category     | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|----------------------|-------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                 | -                     | -                          | -                      |
| Intergovernmental    | 252,518.85        | -                     | -                          | 132,000.00             |
| Licenses & Permits   | -                 | -                     | -                          | -                      |
| Charges for Services | -                 | -                     | -                          | -                      |
| Fines & Forefeitures | -                 | -                     | -                          | -                      |
| Miscellaneous        | -                 | -                     | -                          | -                      |
| Other Sources        | -                 | -                     | -                          | -                      |
| <b>Total</b>         | <b>252,518.85</b> | <b>-</b>              | <b>-</b>                   | <b>132,000.00</b>      |
|                      | \$ -              | \$ -                  | \$ -                       | \$ -                   |

| Expense Category              | FY2023 Actual     | FY2024 Adopted Budget | FY2024 Current YTD Actuals | FY2025 Proposed Budget |
|-------------------------------|-------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                 | -                     | -                          | -                      |
| Supplies & Materials          | 156.59            | 200.00                | 88.38                      | 200.00                 |
| Maintenance & Repair          | 13,689.22         | 25,000.00             | 17,480.18                  | 25,000.00              |
| Contractual Services          | 281,464.72        | 387,288.00            | 296,164.94                 | 394,497.00             |
| Utilities                     | 358,121.91        | 367,004.00            | 236,179.42                 | 364,650.00             |
| Other Expenses                | 1,348.01          | 1,396.00              | 1,198.20                   | 1,510.00               |
| Capital                       | 11,049.12         | 195,562.00            | 34,866.70                  | 324,000.00             |
| Other Uses                    | -                 | -                     | -                          | -                      |
| Debt Service                  | -                 | -                     | -                          | -                      |
| <b>Total</b>                  | <b>665,829.57</b> | <b>976,450.00</b>     | <b>585,977.82</b>          | <b>1,109,857.00</b>    |
|                               | \$ -              | \$ -                  | \$ (0.00)                  | \$ -                   |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Alliance Contract** - FY25 allocation based on dollars budgeted with CPI increase of 3%

#### Decreases:

**Professional Services** - Decrease based on actual need

**Insurance and Bonds** - Decrease due to allocation of property

|                         | FY2023 Actual | FY2024 Adopted Budget | FY2024 Current Budget | FY2025 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No City FTEs            |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

|            |
|------------|
| Filtration |
|------------|

| Account                               | Account Name                  | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------|-------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Filtration Revenues                   |                               |                      |                      |                              |                               |                              |
| 500-610-4200-520                      | Grant Revenue                 | 252,518.85           | -                    | -                            | -                             | 132,000.00                   |
| 500-610-4760-520                      | Filtration Insurance Claims   | -                    | -                    | -                            | -                             | -                            |
| 500-610-4800-520                      | Filtration Miscellaneous      | -                    | -                    | -                            | -                             | -                            |
| New                                   | MDC Grant Revenue             | -                    | -                    | -                            | -                             | -                            |
| <b>Total Filtration Revenues</b>      |                               | <b>\$ 252,518.85</b> | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ 132,000.00</b>         |
| Filtration Expenditures               |                               |                      |                      |                              |                               |                              |
| 500-610-5260-520                      | Water Plant Prof. Services    | 4,097.08             | 19,650.00            | 5,980.53                     | 7,974.04                      | 17,150.00                    |
| 500-610-5300-520                      | Water Plant Insurance & Bonds | 55,559.24            | 84,786.00            | 77,193.83                    | 102,925.11                    | 76,262.00                    |
| 500-610-5320-520                      | Water Plant Facility Maint.   | 4,756.24             | 15,000.00            | 6,238.50                     | 8,318.00                      | 15,000.00                    |
| 500-610-5330-520                      | Water Plant Equipment Maint.  | 8,932.98             | 10,000.00            | 11,241.68                    | 14,988.91                     | 10,000.00                    |
| 500-610-5530-520                      | Water Plant Fuels/Lubricants  | 1,348.01             | 1,200.00             | 1,198.20                     | 1,597.60                      | 1,300.00                     |
| 500-610-5590-520                      | Water Plant General Supplies  | 156.59               | 200.00               | 88.38                        | 117.84                        | 200.00                       |
| 500-610-5700-520                      | Filtration Comp., Software    | -                    | 196.00               | -                            | -                             | 210.00                       |
| 500-610-5780-520                      | Filtration Cap. Vehicles      | -                    | -                    | -                            | -                             | -                            |
| 500-610-5790-520                      | Filtration Capital- Other     | 11,049.12            | 195,562.00           | 34,866.70                    | 46,488.93                     | 324,000.00                   |
| 500-610-5800-520                      | Alliance Contract             | 221,808.40           | 282,852.00           | 212,990.58                   | 283,987.44                    | 301,085.00                   |
| 500-610-6300-520                      | Filtration Electricity        | 340,879.02           | 346,578.00           | 218,946.37                   | 291,928.49                    | 346,000.00                   |
| 500-610-6310-520                      | Filtration Heating Fuels      | 9,708.90             | 9,905.00             | 9,895.00                     | 13,193.33                     | 9,900.00                     |
| 500-610-6350-520                      | Filtration Phones             | 7,533.99             | 10,521.00            | 7,338.05                     | 9,784.07                      | 8,750.00                     |
| <b>Total Filtration Expenditures</b>  |                               | <b>\$ 665,829.57</b> | <b>\$ 976,450.00</b> | <b>\$ 585,977.82</b>         | <b>\$ 781,303.76</b>          | <b>\$ 1,109,857.00</b>       |
| Filtration Other Sources              |                               |                      |                      |                              |                               |                              |
| <b>Total Filtration Other Sources</b> |                               | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Filtration Other Uses                 |                               |                      |                      |                              |                               |                              |
| <b>Total Filtration Other Uses</b>    |                               | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance                |                               | (413,310.72)         | (976,450.00)         | (585,977.82)                 | (781,303.76)                  | (977,857.00)                 |



## Filtration

### Filtration Revenues

|                  |                             |
|------------------|-----------------------------|
| 500-610-4200-520 | Grant Revenue               |
| 500-610-4760-520 | Filtration Insurance Claims |
| 500-610-4800-520 | Filtration Miscellaneous    |
| New              | MDC Grant Revenue           |

| Department Request |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Amount             | Justification & Supporting Information                                |
| 132,000.00         | Assumes 20% match- DNR Energy Efficiency and Conservation Block Grant |
|                    |                                                                       |
|                    |                                                                       |
| 132,000.00         |                                                                       |

### Filtration Expenditures

|                  |                               |
|------------------|-------------------------------|
| 500-610-5260-520 | Water Plant Prof. Services    |
| 500-610-5300-520 | Water Plant Insurance & Bonds |
| 500-610-5320-520 | Water Plant Facility Maint.   |
| 500-610-5330-520 | Water Plant Equipment Maint.  |
| 500-610-5530-520 | Water Plant Fuels/Lubricants  |
| 500-610-5590-520 | Water Plant General Supplies  |
| 500-610-5700-520 | Filtration Comp., Software    |
| 500-610-5780-520 | Filtration Cap. Vehicles      |
| 500-610-5790-520 | Filtration Capital- Other     |

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17,150.00    | Pest control \$480, Copier maintenance agreement \$100, On call engineering \$5000, Annual Hach Certification maintenance \$10,000, Alarm Monitor \$670                                                                                                                                     |
| 76,262.00    | Property Ins                                                                                                                                                                                                                                                                                |
| 15,000.00    |                                                                                                                                                                                                                                                                                             |
| 10,000.00    |                                                                                                                                                                                                                                                                                             |
| 1,300.00     |                                                                                                                                                                                                                                                                                             |
| 200.00       | Alliance                                                                                                                                                                                                                                                                                    |
| 210.00       | Firewall 210                                                                                                                                                                                                                                                                                |
| 324,000.00   | Replace/Repair filter valves \$40,000, Filter turbidimeter upgrade/replace \$12,000, Flow Meter \$12,000, Filter console keypad replacements \$25,000, Cl2 emergency shut-off actuator rebuild \$10,000, Crowder Pump Station high service pump \$30,000, Replacement windows plant 165,000 |
| 301,085.00   | updated to include 3% CPI and \$50,000 chemical overage                                                                                                                                                                                                                                     |
| 346,000.00   |                                                                                                                                                                                                                                                                                             |
| 9,900.00     |                                                                                                                                                                                                                                                                                             |
| 8,750.00     | Verizon tower communications \$3844.2                                                                                                                                                                                                                                                       |
|              |                                                                                                                                                                                                                                                                                             |
| 1,109,857.00 |                                                                                                                                                                                                                                                                                             |

### Filtration Other Sources

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

### Filtration Other Uses

| Amount | Justification & Supporting Information |
|--------|----------------------------------------|
|        |                                        |

## Wastewater

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

|                      | FY2023              | FY2024              | FY2024              | FY2025              |
|----------------------|---------------------|---------------------|---------------------|---------------------|
| Revenue              |                     | Adopted             | Current YTD         | Proposed            |
| Category             | Actual              | Budget              | Actuals             | Budget              |
| Taxes                | -                   | -                   | -                   | -                   |
| Intergovernmental    | -                   | -                   | -                   | -                   |
| Licenses & Permits   | -                   | -                   | -                   | -                   |
| Charges for Services | 2,365,119.65        | 3,187,194.00        | 1,949,067.37        | 3,674,021.00        |
| Fines & Forfeitures  | -                   | -                   | -                   | -                   |
| Miscellaneous        | 30,317.70           | -                   | 8,270.81            | -                   |
| Other Sources        | 298,558.87          | 1,590,098.00        | 850,685.67          | 1,910,666.00        |
| <b>Total</b>         | <b>2,693,996.22</b> | <b>4,777,292.00</b> | <b>2,808,023.85</b> | <b>5,584,687.00</b> |
|                      | \$ -                | \$ -                | \$ -                | \$ -                |

|                               | FY2023              | FY2024              | FY2024              | FY2025              |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|
| Expense                       |                     | Adopted             | Current YTD         | Proposed            |
| Category                      | Actual              | Budget              | Actuals             | Budget              |
| Salaries, Benefits, & Support | -                   | -                   | -                   | -                   |
| Supplies & Materials          | 376.06              | 525.00              | 96.90               | 525.00              |
| Maintenance & Repair          | 51,906.74           | 105,500.00          | 28,880.82           | 88,000.00           |
| Contractual Services          | 1,089,481.32        | 1,016,494.00        | 790,787.15          | 1,047,924.00        |
| Utilities                     | 256,779.84          | 276,224.00          | 149,194.75          | 272,247.00          |
| Other Expenses                | 682,810.68          | 633,248.00          | 21,427.62           | 633,558.00          |
| Capital                       | 93,896.82           | 654,613.69          | 378,956.30          | 1,948,078.00        |
| Other Uses                    | 242,160.98          | 1,282,791.00        | 788,463.00          | 1,688,031.00        |
| Debt Service                  | -                   | -                   | -                   | -                   |
| <b>Total</b>                  | <b>2,417,412.44</b> | <b>3,969,395.69</b> | <b>2,157,806.54</b> | <b>5,678,363.00</b> |
|                               | \$ (0.00)           | \$ -                | \$ -                | \$ -                |

### Highlights - Variances of 10% (FY2024 Projected/FY2025)

#### Increases:

**Insurance and Bonds-** Increase of property values 13.13% with additional Increase in rates 3%.

**WW Lines Capital** - Increase replacement and **repairs 20 Year plan**

**Alliance Contract** - FY24 allocation based on dollars budgeted with CPI increase of 3%

**Billing-** Increase for rates

#### Decreases:

**Equipment Maintenance**-Decrease based on need

**Facility Maintenance**-Decrease based on need

|                         | FY2023   | FY2024   | FY2024   | FY2025   |
|-------------------------|----------|----------|----------|----------|
| Staffing Levels         | Actual   | Adopted  | Current  | Proposed |
| Category                | Actual   | Budget   | Budget   | Budget   |
| No City FTEs            |          |          |          |          |
| <b>DEPARTMENT TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Wastewater

| Account                               | Account Name                  | FY2023<br>Actual       | FY2024<br>Budget       | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|---------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| <b>Wastewater Revenues</b>            |                               |                        |                        |                              |                               |                              |
| 500-610-3520-610                      | Pretreatment/Surcharge WW     | 88,972.29              | 82,000.00              | 76,465.03                    | 101,953.37                    | 82,000.00                    |
| 500-610-3590-610                      | Billings to Customers WW      | 2,274,822.36           | 3,102,194.00           | 1,872,177.34                 | 2,496,236.45                  | 3,589,021.00                 |
| 500-610-3610-610                      | Sewer Saddle Charges          | 1,325.00               | 3,000.00               | 425.00                       | 566.67                        | 3,000.00                     |
| 500-610-4200-610                      | DNR Grant                     | -                      | -                      | -                            | -                             | -                            |
| 500-610-4760-610                      | Insurance Claims              | 7,221.75               | -                      | 5,397.61                     | 5,397.61                      | -                            |
| 500-610-4800-610                      | Wastewater Misc. Revenue      | 23,095.95              | -                      | 163.20                       | 217.60                        | -                            |
| 500-610-4820-610                      | Wastewater Sale of Property   | -                      | -                      | 2,710.00                     | 3,613.33                      | -                            |
| 500-610-4205-610                      | MIRMA Grant                   | -                      | -                      | -                            | -                             | -                            |
| <b>Total Wastewater Revenues</b>      |                               | <b>\$ 2,395,437.35</b> | <b>\$ 3,187,194.00</b> | <b>\$ 1,957,338.18</b>       | <b>\$ 2,607,985.04</b>        | <b>\$ 3,674,021.00</b>       |
| <b>Wastewater Expenditures</b>        |                               |                        |                        |                              |                               |                              |
| 500-610-5250-610                      | Wastewater Rent Expense       | 9,700.08               | 9,700.00               | 7,275.06                     | 9,700.08                      | 9,700.00                     |
| 500-610-5260-610                      | Wastewater Prof. Services     | 128,299.61             | 33,766.00              | 25,164.18                    | 33,552.24                     | 33,766.00                    |
| 500-610-5300-610                      | Wastewater Insurance & Bonds  | 33,081.78              | 51,960.00              | 52,567.55                    | 70,090.07                     | 68,831.00                    |
| 500-610-5320-610                      | Wastewater Facility Maint.    | 1,951.00               | 20,000.00              | 3,448.00                     | 4,597.33                      | 15,000.00                    |
| 500-610-5330-610                      | Wastewater Equipment Maint.   | 47,297.74              | 82,500.00              | 25,432.82                    | 33,910.43                     | 70,000.00                    |
| 500-610-5530-610                      | Wastewater Fuels/Lubricants   | 32,926.30              | 23,352.00              | 13,944.29                    | 18,592.39                     | 23,352.00                    |
| 500-610-5590-610                      | Wastewater General Supplies   | 376.06                 | 525.00                 | 96.90                        | 129.20                        | 525.00                       |
| 500-610-5620-610                      | Wastewater Line Repair        | 2,658.00               | 3,000.00               | -                            | -                             | 3,000.00                     |
| 500-610-5700-610                      | Wastewater Comp., Software    | 192.32                 | 196.00                 | 208.27                       | 277.69                        | 506.00                       |
| 500-610-5780-610                      | WW Vehicle                    | 37,760.00              | 84,763.00              | -                            | 84,763.00                     | 90,000.00                    |
| 500-610-5790-610                      | WW Capital Equipment          | 51,386.82              | 537,437.00             | 359,592.25                   | 537,437.00                    | 259,000.00                   |
| 500-610-5800-610                      | Alliance Contract             | 928,099.93             | 930,768.00             | 713,055.42                   | 950,740.56                    | 945,327.00                   |
| 500-610-5990-610                      | Depreciation                  | 639,991.98             | 600,000.00             | -                            | 600,000.00                    | 600,000.00                   |
| 500-610-6300-610                      | Wastewater Electricity        | 245,685.69             | 259,109.00             | 140,946.73                   | 187,928.97                    | 259,109.00                   |
| 500-610-6310-610                      | Wastewater Heating Fuels      | 1,944.22               | 7,350.00               | 2,016.01                     | 2,688.01                      | 7,350.00                     |
| 500-610-6350-610                      | Wastewater Phones             | 9,149.93               | 9,765.00               | 6,232.01                     | 8,309.35                      | 5,788.00                     |
| 500-610-6390-610                      | Wastewater Minor Equipment    | -                      | -                      | -                            | -                             | -                            |
| 500-610-5810-619                      | WW Line Capital Improvemt     | 4,750.00               | 32,413.69              | 19,364.05                    | 25,818.73                     | 1,599,078.00                 |
| <b>Total Wastewater Expenditures</b>  |                               | <b>\$ 2,175,251.46</b> | <b>\$ 2,686,604.69</b> | <b>\$ 1,369,343.54</b>       | <b>\$ 2,568,535.05</b>        | <b>\$ 3,990,332.00</b>       |
| <b>Wastewater Other Sources</b>       |                               |                        |                        |                              |                               |                              |
| 500-000-3361-000                      | Transfer fm WW -Rplcmt Rsrv   | 91,020.00              | 1,132,791.00           | 675,963.00                   | 1,132,791.00                  | 1,538,031.00                 |
| 500-000-3363-000                      | Slip Lining Reserve           | 150,000.00             | 150,000.00             | 112,500.00                   | 150,000.00                    | 150,000.00                   |
| 500-000-3306-000                      | Transfer fm ARPA              | 21,197.89              | 307,307.00             | 62,222.67                    | 307,307.00                    | 222,635.00                   |
| 500-000-3362-000                      | Transfer from Other Funds     | 36,340.98              | -                      | -                            | -                             | -                            |
| <b>Total Wastewater Other Sources</b> |                               | <b>\$ 298,558.87</b>   | <b>\$ 1,590,098.00</b> | <b>\$ 850,685.67</b>         | <b>\$ 1,590,098.00</b>        | <b>\$ 1,910,666.00</b>       |
| <b>Wastewater Other Uses</b>          |                               |                        |                        |                              |                               |                              |
| 500-000-3261-000                      | Transfer to WW Rplcmt Reserve | 91,020.00              | 1,132,791.00           | 675,963.00                   | 1,132,791.00                  | 1,538,031.00                 |
| 500-000-3263-000                      | Slip Lining Reserve           | 150,000.00             | 150,000.00             | 112,500.00                   | 150,000.00                    | 150,000.00                   |
| 500-000-3292-000                      | Transfer to other funds       | 1,140.98               | -                      | -                            | -                             | -                            |
| <b>Total Wastewater Other Uses</b>    |                               | <b>\$ 242,160.98</b>   | <b>\$ 1,282,791.00</b> | <b>\$ 788,463.00</b>         | <b>\$ 1,282,791.00</b>        | <b>\$ 1,688,031.00</b>       |
| <b>Change in Fund Balance</b>         |                               | <b>276,583.78</b>      | <b>807,896.31</b>      | <b>650,217.31</b>            | <b>346,756.98</b>             | <b>(93,676.00)</b>           |

## Wastewater

### Wastewater Revenues

|                  |                           |
|------------------|---------------------------|
| 500-610-3520-610 | Pretreatment/Surcharge WW |
| 500-610-3590-610 | Billings to Customers WW  |
| 500-610-3610-610 | Sewer Saddle Charges      |
| 500-610-4200-610 | DNR Grant                 |
| 500-610-4205-610 | MIRMA Grant               |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 82,000.00          |                                        |
| 3,589,021.00       | 10 months new rates incl sewer only    |
| 3,000.00           | cost coverage                          |
|                    |                                        |
|                    |                                        |
| 3,674,021.00       |                                        |

### Wastewater Expenditures

|                  |                              |
|------------------|------------------------------|
| 500-610-5250-610 | Wastewater Rent Expense      |
| 500-610-5260-610 | Wastewater Prof. Services    |
| 500-610-5300-610 | Wastewater Insurance & Bonds |
| 500-610-5320-610 | Wastewater Facility Maint.   |
| 500-610-5330-610 | Wastewater Equipment Maint.  |
| 500-610-5530-610 | Wastewater Fuels/Lubricants  |
| 500-610-5590-610 | Wastewater General Supplies  |
| 500-610-5620-610 | Wastewater Line Repair       |
| 500-610-5700-610 | Wastewater Comp., Software   |
| 500-610-5780-610 | WW Vehicle                   |
| 500-610-5790-610 | WW Capital Equipment         |

| Amount       | Justification & Supporting Information                                                                                                                                                                                                                                                                   |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9,700.00     |                                                                                                                                                                                                                                                                                                          |
| 33,766.00    | Future Growth Engineering for WW Plant Study \$5246, Stronghold \$2640, PACE \$12000, Inspections \$2000, Security \$200, Locates \$3000, AED Maintenance \$100, pest \$540, KCSRailroad \$8,000, CPR instructor \$40                                                                                    |
| 68,831.00    | Property Ins                                                                                                                                                                                                                                                                                             |
| \$15,000     |                                                                                                                                                                                                                                                                                                          |
| 70,000.00    | UV system maintenance \$30,000 Sludge truck tires \$5000, lift station repairs \$20,000                                                                                                                                                                                                                  |
| 23,352.00    |                                                                                                                                                                                                                                                                                                          |
| 525.00       |                                                                                                                                                                                                                                                                                                          |
| 3,000.00     | Sewer Saddles                                                                                                                                                                                                                                                                                            |
| 506.00       | Firewall \$210, server license upgrade \$295.35                                                                                                                                                                                                                                                          |
| 90,000.00    | 2- 1/2 ton Plant Trucks replace 2012s                                                                                                                                                                                                                                                                    |
| 259,000.00   | Influent pump replace/rebuild \$75,000, RAS pump Rebuild \$85,000, Portable Welder \$9,000, Clarifier skirting \$50,000, WWTP clarifier wier replacement \$40,000                                                                                                                                        |
| 945,327.00   | include 3% CPI                                                                                                                                                                                                                                                                                           |
| 600,000.00   |                                                                                                                                                                                                                                                                                                          |
| 259,109.00   |                                                                                                                                                                                                                                                                                                          |
| 7,350.00     |                                                                                                                                                                                                                                                                                                          |
| 5,788.00     |                                                                                                                                                                                                                                                                                                          |
|              |                                                                                                                                                                                                                                                                                                          |
| 1,599,078.00 | Buffalo Creek Lift Station \$12,035 engineering, Buffalo Creek Lift Station construction \$976,600 (bidding/construction), Malcom Mosby lift station \$18,000, Visu-Sewer \$17,442.31 Slip Lining, Villas/Lime Kiln lift station pump replacement \$75,000, Collection System Line replacement \$500,000 |
| 3,990,332.00 |                                                                                                                                                                                                                                                                                                          |

### Wastewater Other Sources

|                  |                             |
|------------------|-----------------------------|
| 500-000-3361-000 | Transfer fm WW -Rplcmt Rsrv |
| 500-000-3363-000 | Slip Lining Reserve         |
| 500-000-3306-000 | Transfer fm ARPA            |
| 500-000-3362-000 | Transfer from Other Funds   |

| Amount       | Justification & Supporting Information       |
|--------------|----------------------------------------------|
| 1,538,031.00 |                                              |
| 150,000.00   | \$300,000 every two years for slip lining    |
| 222,635.00   | ARPA transfer for Buffalo Creek Lift Station |
|              |                                              |

### Wastewater Other Uses

|                  |                               |
|------------------|-------------------------------|
| 500-000-3261-000 | Transfer to WW Rplcmt Reserve |
| 500-000-3263-000 | Slip Lining Reserve           |
| 500-000-3292-000 | Transfer to other funds       |

| Amount       | Justification & Supporting Information    |
|--------------|-------------------------------------------|
| 1,538,031.00 |                                           |
| 150,000.00   | \$300,000 every two years for slip lining |
|              |                                           |

|          |
|----------|
| TIF Debt |
|----------|

| Account                             | Account Name                 | FY2023<br>Actual      | FY2024<br>Budget | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|-------------------------------------|------------------------------|-----------------------|------------------|------------------------------|-------------------------------|------------------------------|
| TIF Debt Revenues                   |                              |                       |                  |                              |                               |                              |
| 500-640-3990-641                    | Transfer for TIF 2012        | 10,604.76             | -                | -                            | -                             | -                            |
| <b>Total TIF Debt Revenues</b>      |                              | <b>\$ 10,604.76</b>   | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| TIF Debt Expenditures               |                              |                       |                  |                              |                               |                              |
| 500-212-5920-212                    | Interest Expense 2012A       | 1,215.66              | -                | -                            | -                             | -                            |
| 500-212-5930-212                    | Admin. Fee 2012 A            | -                     | -                | -                            | -                             | -                            |
|                                     |                              | -                     | -                | -                            |                               |                              |
| <b>Total TIF Debt Expenditures</b>  |                              | <b>\$ 1,215.66</b>    | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| TIF Debt Other Sources              |                              |                       |                  |                              |                               |                              |
| <b>Total TIF Debt Other Sources</b> |                              | <b>\$ -</b>           | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| TIF Debt Other Uses                 |                              |                       |                  |                              |                               |                              |
| 500-000-2472-000                    | Principal Payment 2012 WW De | (28,593.74)           | -                | -                            | -                             | -                            |
| <b>Total TIF Debt Other Uses</b>    |                              | <b>\$ (28,593.74)</b> | <b>\$ -</b>      | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Change in Fund Balance              |                              | 37,982.84             | -                | -                            | -                             | -                            |

|                       |
|-----------------------|
| Water/Wastewater Debt |
|-----------------------|

| Account                                          | Account Name                    | FY2023<br>Actual     | FY2024<br>Budget     | As of<br>6/30/2024<br>Actual | Estimated<br>FY2024<br>Actual | Proposed<br>FY2025<br>Budget |
|--------------------------------------------------|---------------------------------|----------------------|----------------------|------------------------------|-------------------------------|------------------------------|
| Water/Wastewater Debt Revenues                   |                                 |                      |                      |                              |                               |                              |
| <b>Total Water/Wastewater Debt Revenues</b>      |                                 | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Water/Wastewater Debt Expenditures               |                                 |                      |                      |                              |                               |                              |
| 500-640-5920-646                                 | Interest on 2009B               | 35,580.90            | 32,247.00            | 21,677.91                    | 28,903.88                     | 27,720.00                    |
| 500-640-5930-646                                 | Paying Agent Fee - 2009B        | 13,244.76            | 10,678.00            | 6,072.88                     | 8,097.17                      | 9,179.00                     |
| 500-640-5920-648                                 | 2011 Water Impr Interest Exp.   | 76,364.82            | 74,376.00            | 51,149.82                    | 68,199.76                     | 66,977.00                    |
| 500-640-5930-648                                 | 2011 Water Impr. Adm Fees       | 28,506.93            | 24,628.00            | 13,307.66                    | 17,743.55                     | 22,178.00                    |
| <b>Total Water/Wastewater Debt Expenditures</b>  |                                 | <b>\$ 153,697.41</b> | <b>\$ 141,929.00</b> | <b>\$ 92,208.27</b>          | <b>\$ 122,944.36</b>          | <b>\$ 126,054.00</b>         |
| Water/Wastewater Debt Other Sources              |                                 |                      |                      |                              |                               |                              |
| <b>Total Water/Wastewater Debt Other Sources</b> |                                 | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>                  | <b>\$ -</b>                   | <b>\$ -</b>                  |
| Water/Wastewater Debt Other Uses                 |                                 |                      |                      |                              |                               |                              |
| 500-000-2468-000                                 | Principal Payment 2009B WW Debt | 292,600.00           | 288,400.00           | 224,100.00                   | 288,400.00                    | 304,100.00                   |
| 500-000-2471-000                                 | Principal Payment 2011 WW Debt  | 474,000.00           | 466,000.00           | 363,500.00                   | 466,000.00                    | 497,000.00                   |
| <b>Total Water/Wastewater Debt Other Uses</b>    |                                 | <b>\$ 766,600.00</b> | <b>\$ 754,400.00</b> | <b>\$ 587,600.00</b>         | <b>\$ 754,400.00</b>          | <b>\$ 801,100.00</b>         |
| Change in Fund Balance                           |                                 | (920,297.41)         | (896,329.00)         | (679,808.27)                 | (877,344.36)                  | (927,154.00)                 |

City of Neosho  
FY2025  
Transfer Schedule

| Transfer In      | Department                   | Account                                                     | Amount       |
|------------------|------------------------------|-------------------------------------------------------------|--------------|
| 100-000-3305-120 | Police Department            | Trns from Public Safety Fund                                | 1,237,547.00 |
| 100-000-3305-144 | Emergency Management         | Trns from Public Safety Fund                                | 20,144.00    |
| 10-000-3305-110  | General Admin                | Transfer from Public Safety                                 | 20,000.00    |
| 130-000-3305-000 | Fire Department              | Transfer fm Public Safety Fund                              | 866,763.00   |
| 170-000-3306-000 | Drainage                     | Transfer from ARPA                                          | -            |
| 100-000-3310-000 | General Admin                | Transfer fm Hotel/Motel Admin                               | 2,860.00     |
| 214-000-3314-000 | 2014 Series DS               | Transfer from Other Funds                                   | 0            |
| 214-000-3320-000 | 2014 Series DS               | Transferto                                                  | 0            |
| 100-000-3316-000 | Airport                      | Transfer fm Street >Land                                    | 5,660.00     |
| 212-000-3320-000 | 2012 Series DS               | Transfer fm Other Funds                                     | -            |
| 221-000-3321-000 | 2021 Series Spc Obl          | Transfer in 2021 Series DS                                  | 507,002.00   |
| 120-000-3324-000 | Police Grants                | Transfer from Police Dept                                   | 2,310.00     |
| 130-000-3330-000 | Fire Department              | Transfer fm General                                         | 654,927.00   |
| 450-000-3340-000 | Golf Course                  | Transfer fm General                                         | 100,000.00   |
| 450-000-3341-000 | Golf Course                  | Transfer fm Parks -Mtce                                     | -            |
| 450-000-3342-000 | Golf Course                  | Transfer fm EconDev CapImp Dbt                              | 441,738.00   |
| 180-000-3343-000 | Parks & Recreation           | Transfer from Other Funds                                   | 676,850.00   |
| 100-000-3355-000 | Events & Communication       | Transfer to Gen Celebrate                                   | 7,500.00     |
| 100-000-3356-000 | Events & Communication       | Transfer to Gen Fall Festival                               | 15,000.00    |
| 100-000-3357-000 | Events & Communication       | Transfer to Gen Bluegrass BBQ                               | -            |
| 213-000-3373-000 | 2013 Series DS               | Transfer from Street Bridge                                 | -            |
| 216-000-3376-000 | 2016 Series DS               | Transfer in from Other Funds                                | 241,738.00   |
| 300-000-3385-112 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-General Admin     | 470,000.00   |
| 300-000-3385-111 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-City Clerk        | 6,500.00     |
| 300-000-3385-115 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Development Serv  | -            |
| 300-000-3385-118 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Recycle Center    | 65,261.00    |
| 300-000-3385-120 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Police Departmen  | 80,000.00    |
| 300-000-3385-160 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Airport           | 754,000.00   |
| 300-000-3385-130 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Fire Department   | 484,985.00   |
| 300-000-3385-170 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Drainage          | 7,703,160.00 |
| 300-000-3385-175 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Senior Center     | 25,000.00    |
| 300-000-3385-180 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Parks & Recreatio | 987,652.00   |
| 300-000-3385-195 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Auditorium        | 85,000.00    |
| 300-000-3385-450 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Golf Course       | 300,000.00   |
| 300-000-3385-800 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-Street Department | 229,500.00   |
| 300-000-3385-204 | Capital Improvement/Purchase | Transfer to Capital Improvement/Purchases-IOOF Cemetery     | 39,000.00    |
| 175-000-NEW-000  | Senior Center                | Senior Center Capital Reserve                               | -            |
| 180-000-3390-000 | Recreation                   | Transfer from Parks Sales Tax                               | 66,530.00    |
| 500-000-3306-000 | Water/Wastewater             | Transfer from ARPA                                          | 222,635.00   |
| 500-000-3364-000 | Water/Wastewater             | Trns to Main Replacement                                    | 250,000.00   |
| 500-000-3361-000 | Water/Wastewater             | Transfer fm WW -Rplcmt Rsrv                                 | 1,538,031.00 |
| 500-000-3363-000 | Water/Wastewater             | Slip Lining Reserve                                         | 150,000.00   |
| 500-000-3353-000 | Water/Wastewater             | Transfer fm Water -Rplcmt Rsrv                              | 1,179,198.00 |

|                          |  |  |                      |
|--------------------------|--|--|----------------------|
| <b>Total Transfer In</b> |  |  | <b>19,436,491.00</b> |
|--------------------------|--|--|----------------------|

| Transfer Out              | Department                   | Account                                   | Amount                       |
|---------------------------|------------------------------|-------------------------------------------|------------------------------|
| 130-000-3200-000          | Fire Department              | Trnsfer to Public Safety                  | -                            |
| 100-000-3202-000          | General Admin                | Transfer to Other Funds                   | -                            |
| 100-000-3203-000          | General Admin                | Transfer to Senior Center                 | -                            |
| 100-000-3205-000          | Public Safety                | Transfer to Public Safety Dept            | 866,763.00                   |
| 100-000-3205-120          | Public Safety                | Trns to Police Department                 | 1,237,547.00                 |
| 100-000-3205-144          | Public Safety                | Trns to Emergency Mgmt                    | 20,144.00                    |
| 100-000-3205-110          | Public Safety                | Trns to General                           | 20,000.00                    |
| 126-000-3205-120          | DARE                         | Transfer to Police                        | -                            |
| 100-000-3206-170          | General Admin                | Transfer to Drainage                      | -                            |
| 100-000-3206-000          | General Admin                | Transfer to ARPA                          | 222,635.00                   |
| 310-000-3210-000          | Hotel/Motel                  | Tran to General Adm 3% Adm Cst            | 2,860.00                     |
| 175-000-3214-000          | Senior Center                | Transfer to 2014 Series COP               | -                            |
| 195-000-3214-000          | Auditorium                   | Transfer to 2014 COP                      | -                            |
| 800-000-3216-000          | Street Department            | Transfer to Airport -Land                 | 5,660.00                     |
| 800-000-3220-000          | Street Department            | Transfer to 2012A&B Fund                  | -                            |
| 175-000-3221-000          | Senior Center                | Transfer to 2021 Series DS                | 53,680.00                    |
| 195-000-3221-000          | Auditorium                   | Transfer to 2021 Series DS                | 213,718.00                   |
| 900-000-3221-000          | Street/Bridge                | Transfer to 2021 Series DS                | 239,604.00                   |
| 100-000-3224-000          | Police Department            | Transfer to Police Grants                 | 2,310.00                     |
| 100-000-3230-000          | General Admin                | Transfer to Fire fm General               | 654,927.00                   |
| 100-000-3240-000          | General Admin                | Transfer to GC fm General                 | 100,000.00                   |
| 180-000-3241-000          | Parks & Recreation           | Transfer to GC fm Parks -Mtce             | -                            |
| 300-000-3242-000          | Capital Improvement/Purchase | Transfer to Golf Cap Imp Debt             | 441,738.00                   |
| 100-000-3243-000          | General Admin                | Transfer to Parks Department              | 676,850.00                   |
| 310-000-3255-000          | Hotel/Motel                  | Transfer to -Celebrate                    | 7,500.00                     |
| 310-000-3256-000          | Hotel/Motel                  | Tran to -Fall Festival                    | 15,000.00                    |
| 310-000-3257-000          | Hotel/Motel                  | Transfer to-Bluegrass                     | -                            |
| 170-000-3276-000          | Drainage Department          | Transfer to 2016 DS                       | -                            |
| 450-000-3276-000          | Golf Course                  | Transfer to 2016 DS                       | 241,738.00                   |
| 800-000-3276-000          | Street Department            | Transfer to 2016 DS                       | -                            |
| 100-000-3285-112          | General Admin                | Transfer to Capital Improvement/Purchases | 470,000.00                   |
| 100-000-3285-111          | City Clerk                   | Transfer to Capital Improvement/Purchases | 6,500.00                     |
| 100-000-3285-115          | Development Services         | Transfer to Capital Improvement/Purchases | -                            |
| 100-000-3285-118          | Recycle Center               | Transfer to Capital Improvement/Purchases | 65,261.00                    |
| 100-000-3285-120          | Police Department            | Transfer to Capital Improvement/Purchases | 80,000.00                    |
| 100-000-3285-160          | Airport                      | Transfer to Capital Improvement/Purchases | 754,000.00                   |
| 100-000-3285-204          | IOOF Cemetery                | Transfer to Capital Improvement/Purchases | 39,000.00                    |
| 100-000-3285-680          | CDBG                         | Transfer to CDBG                          | -                            |
| 130-000-3285-000          | Fire Department              | Transfer to Capital Improvement/Purchases | 484,985.00                   |
| 170-000-3285-000          | Drainage Department          | Transfer to Capital Improvement/Purchases | 7,703,160.00                 |
| 175-000-3285-000          | Senior Center                | Transfer to Capital Improvement/Purchases | 25,000.00                    |
| 180-000-3285-000          | Parks & Recreation           | Transfer to Capital Improvement/Purchases | 987,652.00                   |
| 195-000-3285-000          | Auditorium                   | Transfer to Capital Improvement/Purchases | 85,000.00                    |
| 450-000-3285-000          | Golf Course                  | Transfer to Capital Improvement/Purchases | 300,000.00                   |
| 800-000-3285-000          | Street Department            | Trns to Capital Improvement               | 229,500.00                   |
| 180-000-3290-000          | Parks & Recreation           | Transfer to Parks Recreation              | 66,530.00                    |
| 175-000-NEW-000           | Senior Center                | Transfer to Capital Reserve               | -                            |
| 500-000-3264-000          | Water/Wastewater             | Trns to Main Replacement                  | 250,000.00                   |
| 500-000-3261-000          | Water/Wastewater             | Transfer fm WW -Rplcmt Rsrv               | 1,538,031.00                 |
| 500-000-3263-000          | Water/Wastewater             | Slip Lining Reserve                       | 150,000.00                   |
| 500-000-3253-000          | Water/Wastewater             | Transfer fm Water -Rplcmt Rsrv            | 1,179,198.00                 |
| <b>Total Transfer Out</b> |                              |                                           | <b>19,436,491.00</b><br>0.00 |



City of Neosho  
October 1, 2024 and September 30, 2025  
Debt Balances by Fund Summary

| Principal Balance |                |    |              |                   |                        |
|-------------------|----------------|----|--------------|-------------------|------------------------|
| "October 1"       | "September 30" |    | Net Change   | Final Payment     |                        |
|                   |                |    |              |                   |                        |
| \$                | 682,656.95     | \$ | 457,706.95   | \$ (224,950.00)   | 5/1/2027               |
| \$                | -              | \$ | -            | \$ -              | Refinanced 2021 Series |
| \$                | 682,656.95     | \$ | 457,706.95   | \$ (224,950.00)   |                        |
|                   |                |    |              |                   |                        |
| \$                | 1,655,000.00   | \$ | 1,465,000.00 | \$ (190,000.00)   | 5/1/2031               |
| \$                | 1,655,000.00   | \$ | 1,465,000.00 | \$ (190,000.00)   |                        |
|                   |                |    |              |                   |                        |
| \$                | 1,911,400.00   | \$ | 1,607,300.00 | \$ (304,100.00)   | 7/1/2030               |
| \$                | 4,559,000.00   | \$ | 4,062,000.00 | \$ (497,000.00)   | 1/1/2033               |
| \$                | 6,470,400.00   | \$ | 5,669,300.00 | \$ (801,100.00)   |                        |
|                   |                |    |              |                   |                        |
| \$                | -              | \$ | -            | \$ -              | Refinanced 2021 Series |
| \$                | 433,874.44     | \$ | 229,834.44   | \$ (204,040.00)   | 5/1/2027               |
| \$                | 433,874.44     | \$ | 229,834.44   | \$ (204,040.00)   |                        |
|                   |                |    |              |                   |                        |
| \$                | 108,468.61     | \$ | 57,458.61    | \$ (51,010.00)    | 5/1/2027               |
| \$                | -              | \$ | -            | \$ -              | Refinanced 2021 Series |
| \$                | 108,468.61     | \$ | 57,458.61    | \$ (51,010.00)    |                        |
|                   |                |    |              |                   |                        |
| \$                | 9,350,400.00   | \$ | 7,879,300.00 | \$ (1,471,100.00) |                        |

Increases in Total Debt \$ -  
Decreases in Total Debt \$ 1,471,100.00

| Issuance | Fund               | FY2024<br>Principal Payments | 9/30/2024<br>Ending Balance | Final Payment |
|----------|--------------------|------------------------------|-----------------------------|---------------|
|          | 2009 Wastewater    | 304,100.00                   | 1,607,300.00                | 7/1/2030      |
|          | 2011 Water         | 497,000.00                   | 4,062,000.00                | 1/1/2033      |
|          | 2021 Street/Bridge | 224,950.00                   | 457,706.95                  | 5/1/2027      |
|          | 2021 Senior Center | 51,010.00                    | 57,458.61                   | 5/1/2027      |
|          | 2021 Auditorium    | 204,040.00                   | 229,834.44                  | 5/1/2027      |
|          | 2016 Golf Course   | 190,000.00                   | 1,465,000.00                | 5/1/2031      |
|          | Total              | 1,471,100.00                 | 7,879,300.00                |               |

## CITY 5-YEAR DEBT SCHEDULE SUMMARY

| <u>Fund</u>                             | Balance<br>9/30/2024   | FY25<br>P&I            | Balance<br>9/30/2025   | FY26<br>P&I            | Balance<br>9/30/2026   | FY27<br>P&I            | Balance<br>9/30/2027   | FY28<br>P&I            | Balance<br>9/30/2028   |                 |
|-----------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|
| <b>Auditorium Sales Tax</b>             |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2014 A COPs                             |                        |                        |                        |                        |                        |                        |                        |                        |                        | Refinanced 2021 |
| 2021 Series Special Obligation Bonds    | \$ 449,068.60          | \$ 212,717.48          | \$ 236,351.12          | \$ 224,636.68          | \$ 11,714.44           | \$ 11,714.44           | \$ (0.00)              |                        |                        | Pay Off in 2027 |
| <b>Golf Fund</b>                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2016 COPs (2006 Refinanced)             | \$ 1,872,837.50        | \$ 236,987.50          | \$ 1,635,850.00        | \$ 227,475.00          | \$ 1,408,375.00        | \$ 237,387.50          | \$ 1,170,987.50        | \$ 236,887.50          | \$ 934,100.00          | Pay Off in 2031 |
| <b>Senior Center</b>                    |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2014 A COPs                             |                        |                        |                        |                        |                        |                        |                        |                        |                        | Refinanced 2021 |
| 2021 Series Special Obligation Bonds    | \$ 112,267.17          | \$ 53,179.38           | \$ 59,087.79           | \$ 56,159.18           | \$ 2,928.61            | \$ 2,928.61            | \$ 0.00                |                        |                        | Pay Off in 2027 |
| <b>Street Sales Tax Fund</b>            |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2016 COPs (2006 Refinanced)             |                        |                        |                        |                        |                        |                        |                        |                        |                        | Pay Off 2020    |
| 2012A/B COPs (2003 Refinanced)          |                        |                        |                        |                        |                        |                        |                        |                        |                        | Paid Off 2023   |
| <b>Street/Bridge Sales Tax Fund</b>     |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2013 Spc Obl Bond (2007B Refinanced)    | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | Refinanced 2021 |
| 2021 Series Special Obligation Bonds    | \$ 707,865.23          | \$ 238,603.14          | \$ 469,262.09          | \$ 239,104.14          | \$ 230,157.95          | \$ 230,157.95          | \$ -                   |                        |                        | Pay Off in 2027 |
| <b>Total Government Funds Debt</b>      | <b>\$ 3,142,038.50</b> | <b>\$ 741,487.50</b>   | <b>\$ 2,400,551.00</b> | <b>\$ 747,375.00</b>   | <b>\$ 1,653,176.00</b> | <b>\$ 482,188.50</b>   | <b>\$ 1,170,987.50</b> | <b>\$ 236,887.50</b>   | <b>\$ 6,316,576.33</b> |                 |
| <b>Water - Wastewater</b>               |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |
| 2009 SRF - ARRA (Wastewater)            | \$ 1,920,341.46        | \$ 331,819.83          | \$ 1,588,521.63        | \$ 333,534.64          | \$ 1,254,986.99        | \$ 334,856.84          | \$ 920,130.15          | \$ 336,236.92          | \$ 583,893.23          | Pay Off 2030    |
| 2011 SRF - Drinking Water (Water)       | \$ 4,598,705.99        | \$ 563,976.05          | \$ 4,034,729.94        | \$ 565,828.65          | \$ 3,468,901.29        | \$ 568,172.95          | \$ 2,900,728.34        | \$ 571,362.48          | \$ 2,329,365.86        | Pay Off 2033    |
| 2012A COPs TIF(2003 Refinanced)         | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ 1,406.25            | \$ (1,406.25)          | Pay Off 2023    |
| <b>Total Water-Wastewater Fund Debt</b> | <b>\$ 6,519,047.45</b> | <b>\$ 895,795.88</b>   | <b>\$ 5,623,251.57</b> | <b>\$ 899,363.29</b>   | <b>\$ 4,723,888.28</b> | <b>\$ 903,029.79</b>   | <b>\$ 3,820,858.49</b> | <b>\$ 909,005.65</b>   | <b>\$ 2,911,852.84</b> |                 |
| <b>Totals All City Debt</b>             | <b>\$ 9,661,085.95</b> | <b>\$ 1,637,283.38</b> | <b>\$ 8,023,802.57</b> | <b>\$ 1,646,738.29</b> | <b>\$ 6,377,064.28</b> | <b>\$ 1,385,218.29</b> | <b>\$ 4,991,845.99</b> | <b>\$ 1,145,893.15</b> | <b>\$ 9,228,429.17</b> |                 |

| 2009 ARRA -- Wastewater Improvement (DNR SRF) |                   |               |                 |              |               |                   |
|-----------------------------------------------|-------------------|---------------|-----------------|--------------|---------------|-------------------|
| Date                                          | Principal Payment | Interest Rate | Interest Amount | Admin Fee    | Total Payment | Principal Balance |
| 11/10/2009                                    |                   |               |                 |              |               | \$ 5,488,800.00   |
| 7/1/2010                                      | \$ -              | 1.510%        | \$ 53,181.90    | \$ -         | \$ 53,181.90  | \$ 5,488,800.00   |
| 1/1/2011                                      | \$ -              | 1.510%        | \$ 41,440.44    | \$ -         | \$ 41,440.44  | \$ 5,488,800.00   |
| 7/1/2011                                      | \$ 115,500.00     | 1.510%        | \$ 41,440.44    | \$ 13,722.00 | \$ 170,662.44 | \$ 5,373,300.00   |
| 1/1/2012                                      | \$ 117,200.00     | 1.510%        | \$ 40,568.42    | \$ 13,433.25 | \$ 171,201.67 | \$ 5,256,100.00   |
| 7/1/2012                                      | \$ 118,700.00     | 1.510%        | \$ 39,683.56    | \$ 13,140.25 | \$ 171,523.81 | \$ 5,137,400.00   |
| 1/1/2013                                      | \$ 120,000.00     | 1.510%        | \$ 38,787.37    | \$ 12,843.50 | \$ 171,630.87 | \$ 5,017,400.00   |
| 7/1/2013                                      | \$ 121,200.00     | 1.510%        | \$ 37,881.37    | \$ 12,543.50 | \$ 171,624.87 | \$ 4,896,200.00   |
| 1/1/2014                                      | \$ 122,400.00     | 1.510%        | \$ 36,966.31    | \$ 12,240.50 | \$ 171,606.81 | \$ 4,773,800.00   |
| 7/1/2014                                      | \$ 123,500.00     | 1.510%        | \$ 36,042.19    | \$ 11,934.50 | \$ 171,476.69 | \$ 4,650,300.00   |
| 1/1/2015                                      | \$ 124,700.00     | 1.510%        | \$ 35,109.77    | \$ 11,625.75 | \$ 171,435.52 | \$ 4,525,600.00   |
| 7/1/2015                                      | \$ 125,900.00     | 1.510%        | \$ 34,168.28    | \$ 11,314.00 | \$ 171,382.28 | \$ 4,399,700.00   |
| 1/1/2016                                      | \$ 127,200.00     | 1.510%        | \$ 33,217.74    | \$ 10,999.25 | \$ 171,416.99 | \$ 4,272,500.00   |
| 7/1/2016                                      | \$ 128,400.00     | 1.510%        | \$ 32,257.38    | \$ 10,681.25 | \$ 171,338.63 | \$ 4,144,100.00   |
| 1/1/2017                                      | \$ 129,700.00     | 1.510%        | \$ 31,287.96    | \$ 10,360.25 | \$ 171,348.21 | \$ 4,014,400.00   |
| 7/1/2017                                      | \$ 130,900.00     | 1.510%        | \$ 30,308.72    | \$ 10,036.00 | \$ 171,244.72 | \$ 3,883,500.00   |
| 1/1/2018                                      | \$ 132,200.00     | 1.510%        | \$ 29,320.43    | \$ 9,708.75  | \$ 171,229.18 | \$ 3,751,300.00   |
| 7/1/2018                                      | \$ 133,500.00     | 1.510%        | \$ 28,322.32    | \$ 9,378.25  | \$ 171,200.57 | \$ 3,617,800.00   |
| 1/1/2019                                      | \$ 134,800.00     | 1.510%        | \$ 27,314.39    | \$ 9,044.50  | \$ 171,158.89 | \$ 3,483,000.00   |
| 7/1/2019                                      | \$ 136,100.00     | 1.510%        | \$ 26,296.65    | \$ 8,707.50  | \$ 171,104.15 | \$ 3,346,900.00   |
| 1/1/2020                                      | \$ 137,400.00     | 1.510%        | \$ 25,269.10    | \$ 8,367.25  | \$ 171,036.35 | \$ 3,209,500.00   |
| 7/1/2020                                      | \$ 138,700.00     | 1.510%        | \$ 24,231.73    | \$ 8,023.75  | \$ 170,955.48 | \$ 3,070,800.00   |
| 1/1/2021                                      | \$ 140,100.00     | 1.510%        | \$ 23,184.54    | \$ 7,677.00  | \$ 170,961.54 | \$ 2,930,700.00   |
| 7/1/2021                                      | \$ 141,400.00     | 1.510%        | \$ 22,126.79    | \$ 7,326.75  | \$ 170,853.54 | \$ 2,789,300.00   |
| 1/1/2022                                      | \$ 142,800.00     | 1.510%        | \$ 21,059.22    | \$ 6,973.25  | \$ 170,832.47 | \$ 2,646,500.00   |
| 7/1/2022                                      | \$ 144,200.00     | 1.510%        | \$ 19,981.08    | \$ 6,616.25  | \$ 170,797.33 | \$ 2,502,300.00   |
| 1/1/2023                                      | \$ 145,600.00     | 1.510%        | \$ 18,892.37    | \$ 6,255.75  | \$ 170,748.12 | \$ 2,356,700.00   |
| 7/1/2023                                      | \$ 147,000.00     | 1.510%        | \$ 17,793.09    | \$ 5,891.75  | \$ 170,684.84 | \$ 2,209,700.00   |
| 1/1/2024                                      | \$ 148,400.00     | 1.510%        | \$ 16,683.24    | \$ 5,524.25  | \$ 170,607.49 | \$ 2,061,300.00   |
| 7/1/2024                                      | \$ 149,900.00     | 1.510%        | \$ 15,562.82    | \$ 5,153.25  | \$ 170,616.07 | \$ 1,911,400.00   |
| 1/1/2025                                      | \$ 151,300.00     | 1.510%        | \$ 14,431.07    | \$ 4,778.50  | \$ 170,509.57 | \$ 1,760,100.00   |
| 7/1/2025                                      | \$ 152,800.00     | 1.510%        | \$ 13,288.76    | \$ 4,400.25  | \$ 170,489.01 | \$ 1,607,300.00   |
| 1/1/2026                                      | \$ 154,300.00     | 1.510%        | \$ 12,135.12    | \$ 4,018.25  | \$ 170,453.37 | \$ 1,453,000.00   |
| 7/1/2026                                      | \$ 155,800.00     | 1.510%        | \$ 10,970.15    | \$ 3,632.50  | \$ 170,402.65 | \$ 1,297,200.00   |
| 1/1/2027                                      | \$ 157,300.00     | 1.510%        | \$ 9,793.86     | \$ 3,243.00  | \$ 170,336.86 | \$ 1,139,900.00   |
| 7/1/2027                                      | \$ 158,800.00     | 1.510%        | \$ 8,606.25     | \$ 2,849.75  | \$ 170,256.00 | \$ 981,100.00     |
| 1/1/2028                                      | \$ 160,400.00     | 1.510%        | \$ 7,407.31     | \$ 2,452.75  | \$ 170,260.06 | \$ 820,700.00     |
| 7/1/2028                                      | \$ 161,900.00     | 1.510%        | \$ 6,196.29     | \$ 2,051.75  | \$ 170,148.04 | \$ 658,800.00     |
| 1/1/2029                                      | \$ 163,500.00     | 1.510%        | \$ 4,973.94     | \$ 1,647.00  | \$ 170,120.94 | \$ 495,300.00     |
| 7/1/2029                                      | \$ 165,100.00     | 1.510%        | \$ 3,739.52     | \$ 1,238.25  | \$ 170,077.77 | \$ 330,200.00     |
| 1/1/2030                                      | \$ 166,700.00     | 1.510%        | \$ 2,493.01     | \$ 825.50    | \$ 170,018.51 | \$ 163,500.00     |
| 7/1/2030                                      | \$ 163,500.00     | 1.510%        | \$ 1,234.43     | \$ 408.75    | \$ 165,143.18 | \$ -              |

|        |                 |  |               |               |                 |  |
|--------|-----------------|--|---------------|---------------|-----------------|--|
| Totals | \$ 5,488,800.00 |  | \$ 973,649.33 | \$ 291,068.50 | \$ 6,753,517.83 |  |
|--------|-----------------|--|---------------|---------------|-----------------|--|

| 2011 Drinking Water Improvement (DNR SRF) |                   |               |                 |               |                  |                   |
|-------------------------------------------|-------------------|---------------|-----------------|---------------|------------------|-------------------|
| Date                                      | Principal Payment | Interest Rate | Interest Amount | Admin Fee     | Total Payment    | Principal Balance |
| 12/19/2011                                |                   |               |                 |               |                  | \$ 9,425,000.00   |
| 7/1/2012                                  | \$ -              | 1.510%        | \$ 75,507.34    | \$ -          | \$ 75,507.34     | \$ 9,425,000.00   |
| 1/1/2013                                  | \$ -              | 1.510%        | \$ 71,158.75    | \$ -          | \$ 71,158.75     | \$ 9,425,000.00   |
| 7/1/2013                                  | \$ -              | 1.510%        | \$ 71,158.75    | \$ -          | \$ 71,158.75     | \$ 9,425,000.00   |
| 1/1/2014                                  | \$ 199,000.00     | 1.510%        | \$ 71,158.75    | \$ 23,562.50  | \$ 293,721.25    | \$ 9,226,000.00   |
| 7/1/2014                                  | \$ 201,000.00     | 1.510%        | \$ 69,656.30    | \$ 23,065.00  | \$ 293,721.30    | \$ 9,025,000.00   |
| 1/1/2015                                  | \$ 203,000.00     | 1.510%        | \$ 68,138.75    | \$ 22,562.50  | \$ 293,701.25    | \$ 8,822,000.00   |
| 7/1/2015                                  | \$ 205,000.00     | 1.510%        | \$ 66,606.10    | \$ 22,055.00  | \$ 293,661.10    | \$ 8,617,000.00   |
| 1/1/2016                                  | \$ 207,000.00     | 1.510%        | \$ 65,058.35    | \$ 21,542.50  | \$ 293,600.85    | \$ 8,410,000.00   |
| 7/1/2016                                  | \$ 209,000.00     | 1.510%        | \$ 63,495.50    | \$ 21,025.00  | \$ 293,520.50    | \$ 8,201,000.00   |
| 1/1/2017                                  | \$ 211,000.00     | 1.510%        | \$ 61,917.55    | \$ 20,502.50  | \$ 293,420.05    | \$ 7,990,000.00   |
| 7/1/2017                                  | \$ 213,000.00     | 1.510%        | \$ 60,324.50    | \$ 19,975.00  | \$ 293,299.50    | \$ 7,777,000.00   |
| 1/1/2018                                  | \$ 215,000.00     | 1.510%        | \$ 58,716.35    | \$ 19,442.50  | \$ 293,158.85    | \$ 7,562,000.00   |
| 7/1/2018                                  | \$ 217,000.00     | 1.510%        | \$ 57,093.10    | \$ 18,905.00  | \$ 292,998.10    | \$ 7,345,000.00   |
| 1/1/2019                                  | \$ 220,000.00     | 1.510%        | \$ 55,454.75    | \$ 18,362.50  | \$ 293,817.25    | \$ 7,125,000.00   |
| 7/1/2019                                  | \$ 222,000.00     | 1.510%        | \$ 53,793.75    | \$ 17,812.50  | \$ 293,606.25    | \$ 6,903,000.00   |
| 1/1/2020                                  | \$ 224,000.00     | 1.510%        | \$ 52,117.65    | \$ 17,257.50  | \$ 293,375.15    | \$ 6,679,000.00   |
| 7/1/2020                                  | \$ 226,000.00     | 1.510%        | \$ 50,426.45    | \$ 16,697.50  | \$ 293,123.95    | \$ 6,453,000.00   |
| 1/1/2021                                  | \$ 229,000.00     | 1.510%        | \$ 48,720.15    | \$ 16,132.50  | \$ 293,852.65    | \$ 6,224,000.00   |
| 7/1/2021                                  | \$ 231,000.00     | 1.510%        | \$ 46,991.20    | \$ 15,560.00  | \$ 293,551.20    | \$ 5,993,000.00   |
| 1/1/2022                                  | \$ 233,000.00     | 1.510%        | \$ 45,247.15    | \$ 14,982.50  | \$ 293,229.65    | \$ 5,760,000.00   |
| 7/1/2022                                  | \$ 235,000.00     | 1.510%        | \$ 43,488.00    | \$ 14,400.00  | \$ 292,888.00    | \$ 5,525,000.00   |
| 1/1/2023                                  | \$ 238,000.00     | 1.510%        | \$ 41,713.75    | \$ 13,812.50  | \$ 293,526.25    | \$ 5,287,000.00   |
| 7/1/2023                                  | \$ 240,000.00     | 1.510%        | \$ 39,916.85    | \$ 13,217.50  | \$ 293,134.35    | \$ 5,047,000.00   |
| 1/1/2024                                  | \$ 243,000.00     | 1.510%        | \$ 38,104.85    | \$ 12,617.50  | \$ 293,722.35    | \$ 4,804,000.00   |
| 7/1/2024                                  | \$ 245,000.00     | 1.510%        | \$ 36,270.20    | \$ 12,010.00  | \$ 293,280.20    | \$ 4,559,000.00   |
| 1/1/2025                                  | \$ 247,000.00     | 1.510%        | \$ 34,420.45    | \$ 11,397.50  | \$ 292,817.95    | \$ 4,312,000.00   |
| 7/1/2025                                  | \$ 250,000.00     | 1.510%        | \$ 32,555.60    | \$ 10,780.00  | \$ 293,335.60    | \$ 4,062,000.00   |
| 1/1/2026                                  | \$ 252,000.00     | 1.510%        | \$ 30,668.10    | \$ 10,155.00  | \$ 292,823.10    | \$ 3,810,000.00   |
| 7/1/2026                                  | \$ 255,000.00     | 1.510%        | \$ 28,765.50    | \$ 9,525.00   | \$ 293,290.50    | \$ 3,555,000.00   |
| 1/1/2027                                  | \$ 257,000.00     | 1.510%        | \$ 26,840.25    | \$ 8,887.50   | \$ 292,727.75    | \$ 3,298,000.00   |
| 7/1/2027                                  | \$ 260,000.00     | 1.510%        | \$ 24,899.90    | \$ 8,245.00   | \$ 293,144.90    | \$ 3,038,000.00   |
| 1/1/2028                                  | \$ 263,000.00     | 1.510%        | \$ 22,936.90    | \$ 7,595.00   | \$ 293,531.90    | \$ 2,775,000.00   |
| 7/1/2028                                  | \$ 265,000.00     | 1.510%        | \$ 20,951.25    | \$ 6,937.50   | \$ 292,888.75    | \$ 2,510,000.00   |
| 1/1/2029                                  | \$ 268,000.00     | 1.510%        | \$ 18,950.50    | \$ 6,275.00   | \$ 293,225.50    | \$ 2,242,000.00   |
| 7/1/2029                                  | \$ 271,000.00     | 1.510%        | \$ 16,927.10    | \$ 5,605.00   | \$ 293,532.10    | \$ 1,971,000.00   |
| 1/1/2030                                  | \$ 273,000.00     | 1.510%        | \$ 14,881.05    | \$ 4,927.50   | \$ 292,808.55    | \$ 1,698,000.00   |
| 7/1/2030                                  | \$ 276,000.00     | 1.510%        | \$ 12,819.90    | \$ 4,245.00   | \$ 293,064.90    | \$ 1,422,000.00   |
| 1/1/2031                                  | \$ 279,000.00     | 1.510%        | \$ 10,736.10    | \$ 3,555.00   | \$ 293,291.10    | \$ 1,143,000.00   |
| 7/1/2031                                  | \$ 282,000.00     | 1.510%        | \$ 8,629.65     | \$ 2,857.50   | \$ 293,487.15    | \$ 861,000.00     |
| 1/1/2032                                  | \$ 284,000.00     | 1.510%        | \$ 6,500.55     | \$ 2,152.50   | \$ 292,653.05    | \$ 577,000.00     |
| 7/1/2032                                  | \$ 287,000.00     |               | \$ 4,356.35     | \$ 1,442.50   | \$ 292,798.85    | \$ 290,000.00     |
| 1/1/2033                                  | \$ 290,000.00     | 1.510%        | \$ 2,189.50     | \$ 725.00     | \$ 292,914.50    | \$ -              |
| Totals                                    | \$ 9,425,000.00   |               | \$ 1,730,263.49 | \$ 500,807.50 | \$ 11,656,070.99 |                   |

| Series 2012A    |                     |               |                    |                     |                     |
|-----------------|---------------------|---------------|--------------------|---------------------|---------------------|
| Date            | Principal Payment   | Interest Rate | Interest Amount    | Total Payment       | Principal Balance   |
|                 |                     |               |                    |                     | \$ 320,000.00       |
| 5/1/2013        |                     |               | \$ 8,156.92        | \$ 8,156.92         | \$ 320,000.00       |
| 5/1/2014        |                     |               | \$ 9,275.00        | \$ 9,275.00         | \$ 320,000.00       |
| 5/1/2015        |                     |               | \$ 9,275.00        | \$ 9,275.00         | \$ 320,000.00       |
| 5/1/2016        | \$ 10,000.00        | 2.125%        | \$ 9,275.00        | \$ 19,275.00        | \$ 310,000.00       |
| 5/1/2017        | \$ 45,000.00        | 2.125%        | \$ 9,062.50        | \$ 54,062.50        | \$ 265,000.00       |
| 5/1/2018        | \$ 45,000.00        | 2.125%        | \$ 8,106.25        | \$ 53,106.25        | \$ 220,000.00       |
| 5/1/2019        | \$ 45,000.00        | 3.250%        | \$ 7,150.00        | \$ 52,150.00        | \$ 175,000.00       |
| 5/1/2020        | \$ 45,000.00        | 3.250%        | \$ 5,687.50        | \$ 50,687.50        | \$ 130,000.00       |
| 5/1/2021        | \$ 50,000.00        | 3.250%        | \$ 4,225.00        | \$ 54,225.00        | \$ 80,000.00        |
| <b>5/1/2022</b> | <b>\$ 50,000.00</b> | <b>3.250%</b> | <b>\$ 2,600.00</b> | <b>\$ 52,600.00</b> | <b>\$ 30,000.00</b> |
| 5/1/2023        | \$ 30,000.00        | 3.250%        | \$ 975.00          | \$ 30,975.00        | \$ -                |

|        |               |  |              |               |  |
|--------|---------------|--|--------------|---------------|--|
| Totals | \$ 320,000.00 |  | \$ 73,788.17 | \$ 393,788.17 |  |
|--------|---------------|--|--------------|---------------|--|

| Water-Wastewater Fund (\$305,000 of 2012A) |                     |               |                    |                     |                     |
|--------------------------------------------|---------------------|---------------|--------------------|---------------------|---------------------|
| Date                                       | Principal Payment   | Interest Rate | Interest Amount    | Total Payment       | Principal Balance   |
|                                            |                     |               |                    |                     | \$ 305,000.00       |
| 5/1/2013                                   |                     |               | \$ 7,774.56        | \$ 7,774.56         | \$ 305,000.00       |
| 5/1/2014                                   |                     |               | \$ 8,840.23        | \$ 8,840.23         | \$ 305,000.00       |
| 5/1/2015                                   |                     |               | \$ 8,840.23        | \$ 8,840.23         | \$ 305,000.00       |
| 5/1/2016                                   | \$ 9,531.25         | 2.125%        | \$ 8,840.23        | \$ 18,371.48        | \$ 295,468.75       |
| 5/1/2017                                   | \$ 42,890.63        | 2.125%        | \$ 8,637.70        | \$ 51,528.32        | \$ 252,578.13       |
| 5/1/2018                                   | \$ 42,890.63        | 2.125%        | \$ 7,726.27        | \$ 50,616.89        | \$ 209,687.50       |
| 5/1/2019                                   | \$ 42,890.63        | 3.250%        | \$ 6,814.84        | \$ 49,705.47        | \$ 166,796.88       |
| 5/1/2020                                   | \$ 42,890.63        | 3.250%        | \$ 5,420.90        | \$ 48,311.52        | \$ 123,906.25       |
| 5/1/2021                                   | \$ 47,656.25        | 3.250%        | \$ 4,026.95        | \$ 51,683.20        | \$ 76,250.00        |
| <b>5/1/2022</b>                            | <b>\$ 47,656.25</b> | <b>3.250%</b> | <b>\$ 2,478.13</b> | <b>\$ 50,134.38</b> | <b>\$ 28,593.75</b> |
| 5/1/2023                                   | \$ 28,593.75        | 3.250%        | \$ 929.30          | \$ 29,523.05        | \$ -                |

|        |               |  |  |               |  |
|--------|---------------|--|--|---------------|--|
| Totals | \$ 305,000.00 |  |  | \$ 375,329.35 |  |
|--------|---------------|--|--|---------------|--|

| Series 2012B      |               |                 |               |                   |
|-------------------|---------------|-----------------|---------------|-------------------|
| Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                   |               |                 |               | \$ 410,000.00     |
| \$ 110,000.00     | 2.000%        | \$ 7,211.51     | \$ 117,211.51 | \$ 300,000.00     |
| \$ 115,000.00     | 2.000%        | \$ 6,000.00     | \$ 121,000.00 | \$ 185,000.00     |
| \$ 110,000.00     | 2.000%        | \$ 3,700.00     | \$ 113,700.00 | \$ 75,000.00      |
| \$ 75,000.00      | 2.000%        | \$ 1,500.00     | \$ 76,500.00  | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |
|                   |               |                 | \$ -          | \$ -              |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 410,000.00 |  | \$ 18,411.51 | \$ 428,411.51 |  |
|---------------|--|--------------|---------------|--|

| Economic Development Fund (\$205,000 of 2012B) |               |                 |               |                   |
|------------------------------------------------|---------------|-----------------|---------------|-------------------|
| Principal Payment                              | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                                                |               |                 |               | \$ 205,000.00     |
| \$ 55,000.00                                   | 2.000%        | \$ 3,605.75     | \$ 58,605.75  | \$ 150,000.00     |
| \$ 57,500.00                                   | 2.000%        | \$ 3,000.00     | \$ 60,500.00  | \$ 92,500.00      |
| \$ 55,000.00                                   | 2.000%        | \$ 1,850.00     | \$ 56,850.00  | \$ 37,500.00      |
| \$ 37,500.00                                   | 2.000%        | \$ 750.00       | \$ 38,250.00  | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |
|                                                |               |                 | \$ -          | \$ -              |

|               |  |             |               |  |
|---------------|--|-------------|---------------|--|
| \$ 205,000.00 |  | \$ 9,205.75 | \$ 214,205.75 |  |
|---------------|--|-------------|---------------|--|

| Combined 2012A and 2012B |               |                    |                     |                     |
|--------------------------|---------------|--------------------|---------------------|---------------------|
| Principal Payment        | Interest Rate | Interest Amount    | Total Payment       | Principal Balance   |
|                          |               |                    |                     | \$ 730,000.00       |
| \$ 110,000.00            | 2.000%        | \$ 15,368.42       | \$ 125,368.42       | \$ 620,000.00       |
| \$ 115,000.00            | 2.000%        | \$ 15,275.00       | \$ 130,275.00       | \$ 505,000.00       |
| \$ 110,000.00            | 2.000%        | \$ 12,975.00       | \$ 122,975.00       | \$ 395,000.00       |
| \$ 85,000.00             | 2.125%/2%     | \$ 10,775.00       | \$ 95,775.00        | \$ 310,000.00       |
| \$ 45,000.00             | 2.125%        | \$ 9,062.50        | \$ 54,062.50        | \$ 265,000.00       |
| \$ 45,000.00             | 2.125%        | \$ 8,106.25        | \$ 53,106.25        | \$ 220,000.00       |
| \$ 45,000.00             | 3.250%        | \$ 7,150.00        | \$ 52,150.00        | \$ 175,000.00       |
| \$ 45,000.00             | 3.250%        | \$ 5,687.50        | \$ 50,687.50        | \$ 130,000.00       |
| \$ 50,000.00             | 3.250%        | \$ 4,225.00        | \$ 54,225.00        | \$ 80,000.00        |
| <b>\$ 50,000.00</b>      | <b>3.250%</b> | <b>\$ 2,600.00</b> | <b>\$ 52,600.00</b> | <b>\$ 30,000.00</b> |
| \$ 30,000.00             | 3.250%        | \$ 975.00          | \$ 30,975.00        | \$ -                |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 730,000.00 |  | \$ 92,199.67 | \$ 822,199.67 |  |
|---------------|--|--------------|---------------|--|

| Street Fund (\$15,000 of 2012A; \$205 of 2012B) |               |                  |                    |                    |
|-------------------------------------------------|---------------|------------------|--------------------|--------------------|
| Principal Payment                               | Interest Rate | Interest Amount  | Total Payment      | Principal Balance  |
|                                                 |               |                  |                    | \$ 220,000.00      |
| \$ 55,000.00                                    | 2.000%        | \$ 3,988.11      | \$ 58,988.11       | \$ 165,000.00      |
| \$ 57,500.00                                    | 2.000%        | \$ 3,434.77      | \$ 60,934.77       | \$ 107,500.00      |
| \$ 55,000.00                                    | 2.000%        | \$ 2,284.77      | \$ 57,284.77       | \$ 52,500.00       |
| \$ 37,968.75                                    | 2.125%/2%     | \$ 1,184.77      | \$ 39,153.52       | \$ 14,531.25       |
| \$ 2,109.38                                     | 2.125%        | \$ 424.80        | \$ 2,534.18        | \$ 12,421.88       |
| \$ 2,109.38                                     | 2.125%        | \$ 379.98        | \$ 2,489.36        | \$ 10,312.50       |
| \$ 2,109.38                                     | 3.250%        | \$ 335.16        | \$ 2,444.53        | \$ 8,203.13        |
| \$ 2,109.38                                     | 3.250%        | \$ 266.60        | \$ 2,375.98        | \$ 6,093.75        |
| \$ 2,343.75                                     | 3.250%        | \$ 198.05        | \$ 2,541.80        | \$ 3,750.00        |
| <b>\$ 2,343.75</b>                              | <b>3.250%</b> | <b>\$ 121.88</b> | <b>\$ 2,465.63</b> | <b>\$ 1,406.25</b> |
| \$ 1,406.25                                     | 3.250%        | \$ 45.70         | \$ 1,451.95        | \$ -               |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 220,000.00 |  | \$ 12,664.57 | \$ 232,664.57 |  |
|---------------|--|--------------|---------------|--|

|              | Combined Series 2016 |               |                 |                 |                   |
|--------------|----------------------|---------------|-----------------|-----------------|-------------------|
| Date         | Principal Payment    | Interest Rate | Interest Amount | Total Payment   | Principal Balance |
| 5/1/2016     | \$ -                 | -             |                 |                 | \$ -              |
| 11/1/2016    | \$ -                 | -             | \$ 78,728.62    | \$ 78,728.62    | \$ 4,040,000.00   |
| 5/1/2017     | \$ 325,000.00        | 2.000%        | \$ 53,275.00    | \$ 378,275.00   | \$ 3,715,000.00   |
| 11/1/2017    | \$ -                 | -             | \$ 50,025.00    | \$ 50,025.00    | \$ 3,715,000.00   |
| 5/1/2018     | \$ 375,000.00        | 2.000%        | \$ 50,025.00    | \$ 425,025.00   | \$ 3,340,000.00   |
| 11/1/2018    | \$ -                 | -             | \$ 46,275.00    | \$ 46,275.00    | \$ 3,340,000.00   |
| 5/1/2019     | \$ 380,000.00        | 2.000%        | \$ 46,275.00    | \$ 426,275.00   | \$ 2,960,000.00   |
| 11/1/2019    | \$ -                 | -             | \$ 42,475.00    | \$ 42,475.00    | \$ 2,960,000.00   |
| 5/1/2020     | \$ 500,000.00        | 3.000%        | \$ 42,475.00    | \$ 542,475.00   | \$ 2,460,000.00   |
| 11/1/2020    | \$ -                 | -             | \$ 34,975.00    | \$ 34,975.00    | \$ 2,460,000.00   |
| 5/1/2021     | \$ 205,000.00        | 3.000%        | \$ 34,975.00    | \$ 239,975.00   | \$ 2,255,000.00   |
| 11/1/2021    | \$ -                 | -             | \$ 31,900.00    | \$ 31,900.00    | \$ 2,255,000.00   |
| 5/1/2022     | \$ 220,000.00        | 3.000%        | \$ 31,900.00    | \$ 251,900.00   | \$ 2,035,000.00   |
| 11/1/2022    | \$ -                 | -             | \$ 28,600.00    | \$ 28,600.00    | \$ 2,035,000.00   |
| 5/1/2023     | \$ 190,000.00        | 3.000%        | \$ 28,600.00    | \$ 218,600.00   | \$ 1,845,000.00   |
| 11/1/2023    | \$ -                 | -             | \$ 25,750.00    | \$ 25,750.00    | \$ 1,845,000.00   |
| 5/1/2024     | \$ 190,000.00        | 2.375%        | \$ 25,750.00    | \$ 215,750.00   | \$ 1,655,000.00   |
| 11/1/2024    | \$ -                 | -             | \$ 23,493.75    | \$ 23,493.75    | \$ 1,655,000.00   |
| 5/1/2025     | \$ 190,000.00        | 2.375%        | \$ 23,493.75    | \$ 213,493.75   | \$ 1,465,000.00   |
| 11/1/2025    | \$ -                 | -             | \$ 21,237.50    | \$ 21,237.50    | \$ 1,465,000.00   |
| 5/1/2026     | \$ 185,000.00        | 2.750%        | \$ 21,237.50    | \$ 206,237.50   | \$ 1,280,000.00   |
| 11/1/2026    | \$ -                 | -             | \$ 18,693.75    | \$ 18,693.75    | \$ 1,280,000.00   |
| 5/1/2027     | \$ 200,000.00        | 2.750%        | \$ 18,693.75    | \$ 218,693.75   | \$ 1,080,000.00   |
| 11/1/2027    | \$ -                 | -             | \$ 15,943.75    | \$ 15,943.75    | \$ 1,080,000.00   |
| 5/1/2028     | \$ 205,000.00        | 2.750%        | \$ 15,943.75    | \$ 220,943.75   | \$ 875,000.00     |
| 11/1/2028    | \$ -                 | -             | \$ 13,125.00    | \$ 13,125.00    | \$ 875,000.00     |
| 5/1/2029     | \$ 215,000.00        | 3.000%        | \$ 13,125.00    | \$ 228,125.00   | \$ 660,000.00     |
| 11/1/2029    | \$ -                 | -             | \$ 9,900.00     | \$ 9,900.00     | \$ 660,000.00     |
| 5/1/2030     | \$ 225,000.00        | 3.000%        | \$ 9,900.00     | \$ 234,900.00   | \$ 435,000.00     |
| 11/1/2030    | \$ -                 | -             | \$ 6,525.00     | \$ 6,525.00     | \$ 435,000.00     |
| 5/1/2031     | \$ 435,000.00        | 3.000%        | \$ 6,525.00     | \$ 441,525.00   | \$ -              |
|              |                      |               |                 |                 |                   |
|              |                      |               |                 |                 |                   |
| Grand Totals | \$ 4,040,000.00      |               | \$ 869,841.12   | \$ 4,909,841.12 |                   |

[illegible][illegible]

| Date      | Golf Course 2016A |                 |                 |                   |
|-----------|-------------------|-----------------|-----------------|-------------------|
|           | Principal Payment | Interest Amount | Total Payment   | Principal Balance |
| 5/16/2016 |                   |                 |                 |                   |
| 11/1/2016 | \$ -              | \$ 62,842.50    | \$ 62,842.50    | \$ 3,150,000.00   |
| 5/1/2017  | \$ 165,000.00     | \$ 42,525.00    | \$ 207,525.00   | \$ 2,985,000.00   |
| 11/1/2017 | \$ -              | \$ 40,875.00    | \$ 40,875.00    | \$ 2,985,000.00   |
| 5/1/2018  | \$ 195,000.00     | \$ 40,875.00    | \$ 235,875.00   | \$ 2,790,000.00   |
| 11/1/2018 | \$ -              | \$ 38,925.00    | \$ 38,925.00    | \$ 2,790,000.00   |
| 5/1/2019  | \$ 200,000.00     | \$ 38,925.00    | \$ 238,925.00   | \$ 2,590,000.00   |
| 11/1/2019 | \$ -              | \$ 36,925.00    | \$ 36,925.00    | \$ 2,590,000.00   |
| 5/1/2020  | \$ 130,000.00     | \$ 36,925.00    | \$ 166,925.00   | \$ 2,460,000.00   |
| 11/1/2020 | \$ -              | \$ 34,975.00    | \$ 34,975.00    | \$ 2,460,000.00   |
| 5/1/2021  | \$ 205,000.00     | \$ 34,975.00    | \$ 239,975.00   | \$ 2,255,000.00   |
| 11/1/2021 | \$ -              | \$ 31,900.00    | \$ 31,900.00    | \$ 2,255,000.00   |
| 5/1/2022  | \$ 220,000.00     | \$ 31,900.00    | \$ 251,900.00   | \$ 2,035,000.00   |
| 11/1/2022 | \$ -              | \$ 28,600.00    | \$ 28,600.00    | \$ 2,035,000.00   |
| 5/1/2023  | \$ 190,000.00     | \$ 28,600.00    | \$ 218,600.00   | \$ 1,845,000.00   |
| 11/1/2023 | \$ -              | \$ 25,750.00    | \$ 25,750.00    | \$ 1,845,000.00   |
| 5/1/2024  | \$ 190,000.00     | \$ 25,750.00    | \$ 215,750.00   | \$ 1,655,000.00   |
| 11/1/2024 | \$ -              | \$ 23,493.75    | \$ 23,493.75    | \$ 1,655,000.00   |
| 5/1/2025  | \$ 190,000.00     | \$ 23,493.75    | \$ 213,493.75   | \$ 1,465,000.00   |
| 11/1/2025 | \$ -              | \$ 21,237.50    | \$ 21,237.50    | \$ 1,465,000.00   |
| 5/1/2026  | \$ 185,000.00     | \$ 21,237.50    | \$ 206,237.50   | \$ 1,280,000.00   |
| 11/1/2026 | \$ -              | \$ 18,693.75    | \$ 18,693.75    | \$ 1,280,000.00   |
| 5/1/2027  | \$ 200,000.00     | \$ 18,693.75    | \$ 218,693.75   | \$ 1,080,000.00   |
| 11/1/2027 | \$ -              | \$ 15,943.75    | \$ 15,943.75    | \$ 1,080,000.00   |
| 5/1/2028  | \$ 205,000.00     | \$ 15,943.75    | \$ 220,943.75   | \$ 875,000.00     |
| 11/1/2028 | \$ -              | \$ 13,125.00    | \$ 13,125.00    | \$ 875,000.00     |
| 5/1/2029  | \$ 215,000.00     | \$ 13,125.00    | \$ 228,125.00   | \$ 660,000.00     |
| 11/1/2029 | \$ -              | \$ 9,900.00     | \$ 9,900.00     | \$ 660,000.00     |
| 5/1/2030  | \$ 225,000.00     | \$ 9,900.00     | \$ 234,900.00   | \$ 435,000.00     |
| 11/1/2030 | \$ -              | \$ 6,525.00     | \$ 6,525.00     | \$ 435,000.00     |
| 5/1/2031  | \$ 435,000.00     | \$ 6,525.00     | \$ 441,525.00   | \$ -              |
| Totals    | \$ 3,150,000.00   | \$ 799,105.00   | \$ 3,949,105.00 |                   |

| Series 2021 |                   |               |                 |               |                   |
|-------------|-------------------|---------------|-----------------|---------------|-------------------|
| Date        | Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|             |                   |               |                 |               | \$ 3,075,000.00   |
| 5/1/2021    | \$ 475,000.00     | 2.000%        | \$ 8,541.67     | \$ 483,541.67 | \$ 2,600,000.00   |
| 5/1/2022    | \$ 450,000.00     | 2.000%        | \$ 52,000.00    | \$ 502,000.00 | \$ 2,150,000.00   |
| 5/1/2023    | \$ 455,000.00     | 2.000%        | \$ 43,000.00    | \$ 498,000.00 | \$ 1,695,000.00   |
| 5/1/2024    | \$ 470,000.00     | 2.000%        | \$ 33,900.00    | \$ 503,900.00 | \$ 1,225,000.00   |
| 5/1/2025    | \$ 480,000.00     | 2.000%        | \$ 24,500.00    | \$ 504,500.00 | \$ 745,000.00     |
| 5/1/2026    | \$ 505,000.00     | 2.000%        | \$ 14,900.00    | \$ 519,900.00 | \$ 240,000.00     |
| 5/1/2027    | \$ 240,000.00     | 2.000%        | \$ 4,800.00     | \$ 244,800.00 | \$ -              |
|             |                   |               |                 |               | \$ -              |
|             |                   |               |                 |               | \$ -              |
|             |                   |               |                 |               | \$ -              |
|             |                   |               |                 |               | \$ -              |

|        |                 |  |               |                 |  |
|--------|-----------------|--|---------------|-----------------|--|
| Totals | \$ 3,075,000.00 |  | \$ 181,641.67 | \$ 3,256,641.67 |  |
|        |                 |  |               | \$ -            |  |

| Street/Bridge Improvement |                   |               |                 |               |                   |
|---------------------------|-------------------|---------------|-----------------|---------------|-------------------|
| Date                      | Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |
|                           |                   |               |                 |               | \$ 1,537,500.00   |
| 5/1/2021                  | \$ 224,993.05     | 2.000%        | \$ 4,270.84     | \$ 229,263.89 | \$ 1,312,506.95   |
| 5/1/2022                  | \$ 204,950.00     | 2.000%        | \$ 26,250.14    | \$ 231,200.14 | \$ 1,107,556.95   |
| 5/1/2023                  | \$ 209,950.00     | 2.000%        | \$ 22,151.14    | \$ 232,101.14 | \$ 897,606.95     |
| 5/1/2024                  | \$ 214,950.00     | 2.000%        | \$ 17,952.14    | \$ 232,902.14 | \$ 682,656.95     |
| 5/1/2025                  | \$ 224,950.00     | 2.000%        | \$ 13,653.14    | \$ 238,603.14 | \$ 457,706.95     |
| 5/1/2026                  | \$ 229,950.00     | 2.000%        | \$ 9,154.14     | \$ 239,104.14 | \$ 227,756.95     |
| 5/1/2027                  | \$ 227,756.95     | 2.000%        | \$ 2,400.00     | \$ 230,156.95 | \$ -              |
|                           |                   |               |                 |               |                   |
|                           |                   |               |                 |               |                   |
|                           |                   |               |                 |               |                   |

|        |                 |  |              |                 |  |
|--------|-----------------|--|--------------|-----------------|--|
| Totals | \$ 1,537,500.00 |  | \$ 95,831.54 | \$ 1,633,331.54 |  |
|--------|-----------------|--|--------------|-----------------|--|

| Municipal Auditorium |               |                 |               |                   |                 |
|----------------------|---------------|-----------------|---------------|-------------------|-----------------|
| Principal Payment    | Interest Rate | Interest Amount | Total Payment | Principal Balance |                 |
|                      |               |                 |               |                   | \$ 1,230,000.00 |
| \$ 200,005.56        | 2.000%        | \$ 3,416.66     | \$ 203,422.22 | \$ 1,029,994.44   |                 |
| \$ 196,040.00        | 2.000%        | \$ 20,599.88    | \$ 216,639.88 | \$ 833,954.44     |                 |
| \$ 196,040.00        | 2.000%        | \$ 16,679.08    | \$ 212,719.08 | \$ 637,914.44     |                 |
| \$ 204,040.00        | 2.000%        | \$ 12,758.28    | \$ 216,798.28 | \$ 433,874.44     |                 |
| \$ 204,040.00        | 2.000%        | \$ 8,677.48     | \$ 212,717.48 | \$ 229,834.44     |                 |
| \$ 220,040.00        | 2.000%        | \$ 4,596.68     | \$ 224,636.68 | \$ 9,794.44       |                 |
| \$ 9,794.44          | 2.000%        | \$ 1,920.00     | \$ 11,714.44  | \$ -              |                 |
|                      |               |                 | \$ -          |                   |                 |
|                      |               |                 | \$ -          |                   |                 |
|                      |               |                 | \$ -          |                   |                 |
|                      |               |                 | \$ -          |                   |                 |

|                 |  |              |                 |  |
|-----------------|--|--------------|-----------------|--|
| \$ 1,230,000.00 |  | \$ 68,648.06 | \$ 1,298,648.06 |  |
|-----------------|--|--------------|-----------------|--|

| Senior Center     |               |                 |               |                   |               |
|-------------------|---------------|-----------------|---------------|-------------------|---------------|
| Principal Payment | Interest Rate | Interest Amount | Total Payment | Principal Balance |               |
|                   |               |                 |               |                   | \$ 307,500.00 |
| \$ 50,001.39      | 2.000%        | \$ 854.17       | \$ 50,855.56  | \$ 257,498.61     |               |
| \$ 49,010.00      | 2.000%        | \$ 5,149.98     | \$ 54,159.98  | \$ 208,488.61     |               |
| \$ 49,010.00      | 2.000%        | \$ 4,169.78     | \$ 53,179.78  | \$ 159,478.61     |               |
| \$ 51,010.00      | 2.000%        | \$ 3,189.58     | \$ 54,199.58  | \$ 108,468.61     |               |
| \$ 51,010.00      | 2.000%        | \$ 2,169.38     | \$ 53,179.38  | \$ 57,458.61      |               |
| \$ 55,010.00      | 2.000%        | \$ 1,149.18     | \$ 56,159.18  | \$ 2,448.61       |               |
| \$ 2,448.61       | 2.000%        | \$ 480.00       | \$ 2,928.61   | \$ -              |               |
|                   |               |                 | \$ -          |                   |               |
|                   |               |                 | \$ -          |                   |               |
|                   |               |                 | \$ -          |                   |               |
|                   |               |                 | \$ -          |                   |               |

|               |  |              |               |  |
|---------------|--|--------------|---------------|--|
| \$ 307,500.00 |  | \$ 17,162.07 | \$ 324,662.07 |  |
|---------------|--|--------------|---------------|--|

City of Neosho  
CIP Government  
FY2025

|                                              | Budgeted            | Forecasted          | Forecasted          | Forecasted          | Forecasted        |             |
|----------------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------|
|                                              | 2024-25             | 2025-26             | 2026-27             | 2027-28             | 2028-29           | Future      |
| DEPARTMENT/DESCRIPTION                       | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year       | Projects    |
| <b>REVENUE SOURCES</b>                       |                     |                     |                     |                     |                   |             |
| General Fund Sales Tax                       | \$ 937,790          | \$ 708,560          | \$ 285,000          | \$ 420,000          | \$ 20,000         |             |
| Public Safety Sales Tax                      | \$ 346,277          | \$ 1,104,192        | \$ 859,197          | \$ 994,197          | \$ 94,197         | \$ -        |
| Drainage Sales Tax                           | \$ 210,000          | \$ 150,000          | \$ -                | \$ 15,000           |                   |             |
| Senior Center Sales Tax                      | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Parks & Recreation Sales Tax                 | \$ 35,000           | \$ 30,000           | \$ 30,000           | \$ 30,000           | \$ 30,000         |             |
| Auditorium & Lampo Sales Tax                 | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Capital Improvement Sales Tax                | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Street Sales Tax                             | \$ 629,500          | \$ 970,000          | \$ 400,000          | \$ 600,000          | \$ 400,000        |             |
| NPE Grant Revenues                           | \$ -                | \$ -                | \$ -                | \$ -                |                   |             |
| Grants                                       | \$ 89,172           | \$ -                | \$ -                | \$ -                |                   |             |
| Golf Course Revenues                         | \$ 28,210           | \$ -                | \$ -                | \$ -                |                   |             |
| Golf Cart Replacement Reserve                | \$ 20,000           | \$ -                | \$ -                | \$ -                |                   |             |
| Fire Sales Tax                               | \$ 47,905           | \$ -                | \$ -                | \$ -                |                   |             |
| Tax Increment Financing                      | \$ -                |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
| <b>TOTAL REVENUE SOURCES</b>                 | <b>\$ 2,343,854</b> | <b>\$ 2,962,752</b> | <b>\$ 1,574,197</b> | <b>\$ 2,059,197</b> | <b>\$ 544,197</b> |             |
| <b>EXPENDITURES</b>                          |                     |                     |                     |                     |                   |             |
| <b>General Fund</b>                          |                     |                     |                     |                     |                   |             |
| General Admin                                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| City Clerk                                   | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Development                                  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Recycle Center                               | \$ 36,000           | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Police                                       | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000         | \$ -        |
| Municipal Court                              | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Information Technology                       | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Fleet Maintenance                            | \$ 9,500            | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Emergency Management                         | \$ 14,197           | \$ 14,197           | \$ 14,197           | \$ 14,197           | \$ 14,197         | \$ -        |
| Human Resources                              | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| Airport                                      | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
| IOOF Cemetery                                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              | \$ -        |
|                                              |                     |                     |                     |                     |                   |             |
| <b>General Fund</b>                          | <b>\$ 139,697</b>   | <b>\$ 94,197</b>    | <b>\$ 94,197</b>    | <b>\$ 94,197</b>    | <b>\$ 94,197</b>  | <b>\$ -</b> |
| <b>Fire Sales Tax Fund</b>                   | <b>\$ 299,985</b>   | <b>\$ 1,009,995</b> | <b>\$ 765,000</b>   | <b>\$ 900,000</b>   | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Drainage Sales Tax Fund</b>               | <b>\$ 60,000</b>    | <b>\$ 150,000</b>   | <b>\$ -</b>         | <b>\$ 15,000</b>    | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Senior Center Sales Tax Fund</b>          | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Parks &amp; Recreation Sales Tax Fund</b> | <b>\$ 754,172</b>   | <b>\$ 50,000</b>    | <b>\$ 50,000</b>    | <b>\$ 50,000</b>    | <b>\$ 50,000</b>  | <b>\$ -</b> |
| <b>Auditorium &amp; Lampo Sales Tax Fund</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Golf Course Fund</b>                      | <b>\$ 320,000</b>   | <b>\$ 688,560</b>   | <b>\$ 265,000</b>   | <b>\$ 400,000</b>   | <b>\$ -</b>       | <b>\$ -</b> |
| <b>Street Sales Tax Fund</b>                 | <b>\$ 629,500</b>   | <b>\$ 970,000</b>   | <b>\$ 400,000</b>   | <b>\$ 600,000</b>   | <b>\$ 400,000</b> | <b>\$ -</b> |
| <b>Tax Increment Financing</b>               | <b>\$ -</b>         |                     |                     |                     |                   |             |
|                                              |                     |                     |                     |                     |                   |             |
| <b>TOTAL</b>                                 | <b>\$ 2,203,354</b> | <b>\$ 2,962,752</b> | <b>\$ 1,574,197</b> | <b>\$ 2,059,197</b> | <b>\$ 544,197</b> | <b>\$ -</b> |
| <b>ENDING BALANCE</b>                        | <b>\$ 140,500</b>   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>       |             |



City of Neosho  
CIP Enterprise Fund  
FY2025

|                                | Budgeted            | Forecasted          | Forecasted          | Forecasted          | Forecasted          |                   |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                | 2024-25             | 2025-26             | 2026-27             | 2027-28             | 2028-29             | Future            |
| DEPARTMENT/DESCRIPTION         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Projects          |
| BALANCE BROUGHT FORWARD        |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>REVENUE SOURCES</b>         |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| Water & Wastewater Charges     | \$ 443,500          | \$ 372,000          | \$ 328,000          | \$ 270,000          | \$ 304,000          | \$ -              |
| Wastewater Improvement Reserve | \$ 2,645,844        | \$ 2,206,844        | \$ 2,236,844        | \$ 2,056,844        | \$ 2,081,343        | \$ 741,021        |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>TOTAL REVENUE SOURCES</b>   | <b>\$ 3,089,344</b> | <b>\$ 2,578,844</b> | <b>\$ 2,564,844</b> | <b>\$ 2,326,844</b> | <b>\$ 2,385,343</b> |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>EXPENDITURES</b>            |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| Water Administration           | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -              |
| Distribution & Maintenance     | \$ 1,625,323        | \$ 1,515,823        | \$ 1,515,823        | \$ 1,515,823        | \$ 1,534,322        | \$ 250,000        |
| Meter Reading                  | \$ -                | \$ 40,000           | \$ -                | \$ -                | \$ -                | \$ -              |
| Filtration                     | \$ 84,000           | \$ 82,000           | \$ 78,000           | \$ 20,000           | \$ 15,000           | \$ -              |
| Wastewater                     | \$ 1,380,021        | \$ 941,021          | \$ 971,021          | \$ 791,021          | \$ 836,021          | \$ 741,021        |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
|                                |                     |                     |                     |                     |                     |                   |
| <b>TOTAL</b>                   | <b>\$ 3,089,344</b> | <b>\$ 2,578,844</b> | <b>\$ 2,564,844</b> | <b>\$ 2,326,844</b> | <b>\$ 2,385,343</b> | <b>\$ 991,021</b> |
| <b>ENDING BALANCE</b>          | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         |                   |

1. Enter Purchase/Improvement in Column A Under expenditures
2. Enter the Estimated Useful Life of the item in Column B
3. Enter the Estimated Cost of the item in the appropriate year
4. Enter any comments or descriptions in column I

| Street Department            | Anticipated Useful Life (in Years) | 2021-22     | 2022-23     | 2023-24     | 2024-25     | 2025-26     | Future   |                                                                                                  |
|------------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|--------------------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION       |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                                         |
| BALANCE BROUGHT FORWARD      |                                    |             |             |             |             |             |          |                                                                                                  |
| <b>REVENUE SOURCES</b>       |                                    |             |             |             |             |             |          |                                                                                                  |
| Street Sales Tax             |                                    | \$ 682,000  | \$ 548,000  | \$ 800,000  | \$ -        | \$ -        |          |                                                                                                  |
|                              |                                    |             |             |             |             |             |          |                                                                                                  |
|                              |                                    |             |             |             |             |             |          |                                                                                                  |
| <b>TOTAL REVENUE SOURCES</b> |                                    | \$ 682,000  | \$ 548,000  | \$ 800,000  | \$ -        | \$ -        | \$ -     |                                                                                                  |
| <b>EXPENDITURES</b>          |                                    |             |             |             |             |             |          |                                                                                                  |
| Post Hole Digger             |                                    | \$ 8,000    | \$ 8,000    |             |             |             |          |                                                                                                  |
| Street Contracts             |                                    | \$ 600,000  | \$ 420,000  | \$ 600,000  |             |             |          |                                                                                                  |
| Salt Brine tanks             |                                    | \$ 14,000   |             |             |             |             |          | This is part of our 5 year improvement plan, bi-yearly slurry seal and yearly overlay            |
| 1 ton truck                  | 5                                  | \$ 60,000   |             |             |             |             |          | We have 6 salt beds. We will add 2 brine pretreatment sprayers a year \$5,000 to \$7,000 a piece |
| Backhoe replacement          | 15                                 |             | \$ 120,000  |             |             |             |          | Replace shop truck with one of the older street trucks (new truck for Streets)                   |
| Trackhoe replacement         | 15                                 |             |             | \$ 200,000  |             |             |          | Replacement Schedule of Streets Backhoe                                                          |
|                              |                                    |             |             |             |             |             |          | Replacement Schedule for Trackhoe                                                                |
|                              |                                    |             |             |             |             |             |          |                                                                                                  |
|                              |                                    |             |             |             |             |             |          |                                                                                                  |
|                              |                                    |             |             |             |             |             |          |                                                                                                  |
|                              |                                    |             |             |             |             |             |          |                                                                                                  |
|                              |                                    |             |             |             |             |             |          |                                                                                                  |
| <b>TOTAL</b>                 |                                    | \$ 682,000  | \$ 548,000  | \$ 800,000  | \$ -        | \$ -        | \$ -     |                                                                                                  |
| <b>ENDING BALANCE</b>        |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |                                                                                                  |

| General Admin                  |      | Anticipated<br>Useful Life (in<br>Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29  | Future   |  |
|--------------------------------|------|------------------------------------------|-------------|-------------|-------------|-------------|----------|----------|--|
| DEPARTMENT/DESCRIPTION         |      | Fiscal Year                              | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |  |
| <b>BALANCE BROUGHT FORWARD</b> |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
| <b>EXPENDITURES</b>            |      |                                          |             |             |             |             |          |          |  |
| City Hall Exterior renovations | 30 ? |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
|                                |      |                                          |             |             |             |             |          |          |  |
| TOTAL                          |      | \$ -                                     | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | \$ -     |  |
| ENDING BALANCE                 |      | \$ -                                     | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |  |

| City Clerk              |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29  | Future   |  |
|-------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|----------|----------|--|
| DEPARTMENT/DESCRIPTION  |  | Fiscal Year                        | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |  |
| BALANCE BROUGHT FORWARD |  |                                    |             |             |             |             |          |          |  |
| REVENUE SOURCES         |  |                                    |             |             |             |             |          |          |  |
| General Fund Revenues   |  | \$ -                               |             |             |             |             |          |          |  |
| TOTAL REVENUE SOURCES   |  | \$ - \$ -                          | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |
| EXPENDITURES            |  |                                    |             |             |             |             |          |          |  |
| TOTAL                   |  | \$ - \$ -                          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -        |  |
| ENDING BALANCE          |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |

| Development                    |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29  | Future   |  |
|--------------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|----------|----------|--|
| DEPARTMENT/DESCRIPTION         |  | Fiscal Year                        | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |  |
| <b>BALANCE BROUGHT FORWARD</b> |  |                                    |             |             |             |             |          |          |  |
| <b>REVENUE SOURCES</b>         |  |                                    |             |             |             |             |          |          |  |
| General Fund Revenues          |  | \$ -                               |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL REVENUE SOURCES</b>   |  | \$ - \$ - \$ - \$ -                |             |             |             |             |          |          |  |
| <b>EXPENDITURES</b>            |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL</b>                   |  | \$ - \$ - \$ - \$ -                |             |             |             |             |          |          |  |
| <b>ENDING BALANCE</b>          |  | \$ - \$ - \$ - \$ -                |             |             |             |             |          |          |  |

|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|--------------------------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------|--------------------------------------------------------------------------|
| Recycle Center                 | Anticipated     | 2024-25            | 2025-26            | 2026-27            | 2027-28            | 2028-29            | Future          |                                                                          |
|                                | Useful Life (in |                    |                    |                    |                    |                    |                 |                                                                          |
|                                | Years)          |                    |                    |                    |                    |                    |                 |                                                                          |
| <b>DEPARTMENT/DESCRIPTION</b>  |                 | <b>Fiscal Year</b> | <b>Fiscal Year</b> | <b>Fiscal Year</b> | <b>Fiscal Year</b> | <b>Fiscal Year</b> | <b>Projects</b> | <b>Comments</b>                                                          |
| <b>BALANCE BROUGHT FORWARD</b> |                 |                    |                    |                    |                    |                    |                 |                                                                          |
| <b>REVENUE SOURCES</b>         |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
| General Fund Revenue           |                 | \$ 36,000          |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
| <b>TOTAL REVENUE SOURCES</b>   |                 | <b>\$ 36,000</b>   | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>        |                 |                                                                          |
| <b>EXPENDITURES</b>            |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
| Security cameras               | 20              | \$ 5,000           |                    |                    |                    |                    |                 | Security cameras for surveillance and security                           |
| Security fence                 | 30              | \$ 28,000          |                    |                    |                    |                    |                 | Chain link fence and two gates for security.                             |
| Manual dock ramp               | 30              | \$ 3,000           |                    |                    |                    |                    |                 | Currently have two bays for loading and unloading and only one dock ramp |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
|                                |                 |                    |                    |                    |                    |                    |                 |                                                                          |
| <b>TOTAL</b>                   |                 | <b>\$ 36,000</b>   | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>     |                                                                          |
| <b>ENDING BALANCE</b>          |                 | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>        | <b>\$ -</b>        |                 |                                                                          |



| Municipal Court                | Anticipated Useful Life (in Years) | 2024-25<br>Fiscal Year | 2025-26<br>Fiscal Year | 2026-27<br>Fiscal Year | 2027-28<br>Fiscal Year | 2028-29<br>Fiscal Year | Future Projects | Comments |
|--------------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|----------|
| <b>BALANCE BROUGHT FORWARD</b> |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
| <b>EXPENDITURES</b>            |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
|                                |                                    |                        |                        |                        |                        |                        |                 |          |
| <b>TOTAL</b>                   |                                    | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -            |          |
| <b>ENDING BALANCE</b>          |                                    | \$ -                   | \$ -                   | \$ -                   | \$ -                   | \$ -                   |                 |          |



| Information Technology  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| EXPENDITURES            |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| TOTAL                   |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -        |
| ENDING BALANCE          |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Fleet Maintenance          | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                                          |
|----------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------------------------------------------------------|
| DEPARTMENT/DESCRIPTION     |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                 |
| BALANCE BROUGHT FORWARD    |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
| EXPENDITURES               |                                    |             |             |             |             |             |          |                                                          |
| Metal plates for Fleet pit |                                    | \$ 1,500    |             |             |             |             |          | To help with floor space                                 |
| Exhaust fans               |                                    | \$ 8,000    |             |             |             |             |          | This is for exhausting gases and fumes during the winter |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
|                            |                                    |             |             |             |             |             |          |                                                          |
| TOTAL                      |                                    | \$ 9,500    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -                                                        |
| ENDING BALANCE             |                                    | \$ (9,500)  | \$ -        | \$ -        | \$ -        | \$ -        |          |                                                          |

| Emergency Management                 |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                                                                                     |
|--------------------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|-----------------------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION               |  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                                            |
| BALANCE BROUGHT FORWARD              |  |                                    |             |             |             |             |             |          |                                                                                                     |
| REVENUE SOURCES                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
| Transfer from Public Safety Tax Fund |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ -     |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
| TOTAL REVENUE SOURCES                |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   |          |                                                                                                     |
| EXPENDITURES                         |  |                                    |             |             |             |             |             |          |                                                                                                     |
| Siren Maintenance Agreement          |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   |          | Annual Contract for repairs to all storm Sirens Added 5% cushion to last years price of \$13,521.00 |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
|                                      |  |                                    |             |             |             |             |             |          |                                                                                                     |
| TOTAL                                |  |                                    | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ 14,197   | \$ -     |                                                                                                     |
| ENDING BALANCE                       |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |                                                                                                     |

| Human Resources         | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| EXPENDITURES            |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| TOTAL                   |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     | -        |
| ENDING BALANCE          |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Airport                 | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |                                    |             |             |             |             |             |          |          |
| REVENUE SOURCES         |                                    |             |             |             |             |             |          |          |
| General Fund Revenues   |                                    | \$ -        |             |             |             |             |          |          |
| Timber Sales            |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| TOTAL REVENUE SOURCES   |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |
| EXPENDITURES            |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
|                         |                                    |             |             |             |             |             |          |          |
| TOTAL                   |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| ENDING BALANCE          |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

|                         |  |                        |             |             |             |             |             |          |          |
|-------------------------|--|------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| IOOF Cemetery           |  | Anticipated            | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   | Comments |
| DEPARTMENT/DESCRIPTION  |  | Useful Life (in Years) | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects |          |
| BALANCE BROUGHT FORWARD |  |                        |             |             |             |             |             |          |          |
| REVENUE SOURCES         |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
| TOTAL REVENUE SOURCES   |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |
| EXPENDITURES            |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
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|                         |  |                        |             |             |             |             |             |          |          |
|                         |  |                        |             |             |             |             |             |          |          |
| TOTAL                   |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| ENDING BALANCE          |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Fire Department                      | Anticipated<br>Useful Life (in<br>Years) | 2024-25     | 2025-26      | 2026-27     | 2027-28     | 2028-29     | Future   |                                                                                              |
|--------------------------------------|------------------------------------------|-------------|--------------|-------------|-------------|-------------|----------|----------------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION               |                                          | Fiscal Year | Fiscal Year  | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                                                                                     |
| BALANCE BROUGHT FORWARD              |                                          |             |              |             |             |             |          |                                                                                              |
| REVENUE SOURCES                      |                                          |             |              |             |             |             |          |                                                                                              |
| Transfer from Public Safety Tax Fund |                                          | \$ 252,080  | \$ 1,009,995 | \$ 765,000  | \$ 900,000  | \$ -        | \$ -     |                                                                                              |
| Fire Sales Tax Fund Balance          |                                          | \$47,905    |              |             |             |             |          |                                                                                              |
| TOTAL REVENUE SOURCES                |                                          | \$ 299,985  | \$ 1,009,995 | \$ 765,000  | \$ 900,000  | \$ -        |          |                                                                                              |
| EXPENDITURES                         |                                          |             |              |             |             |             |          |                                                                                              |
| Replace Rescue 4                     | 15                                       | \$252,080   |              |             |             |             |          | Replacement of Rescue 4                                                                      |
| Purchase New Quint Aerial            | 20                                       |             | \$ 600,000   | \$ 600,000  |             |             |          | Purchase of Quint for the downtown district                                                  |
| Remodel of station 2                 | 20                                       |             | \$ 350,000   |             |             |             |          | Remodel the Kitchen, Office and Bedroom, Addition of 1 bay.                                  |
| Replace Engine 8                     | 20                                       |             |              |             | \$ 900,000  |             |          | Replace Engine 8 (2001 Model Engine)                                                         |
| Turn out gear replacement            | 5                                        |             |              | \$ 165,000  |             |             |          | Replacement of all Turnout gear Helmets, boot, gloves, nomex, coat ,suspenders, and pants    |
| Extrication Equipment                | 10                                       | \$32,905    |              |             |             |             |          | Replacement of Extrication Equipment on R4 and E6                                            |
| Motorola Mobile Radio                | 10                                       |             | \$ 11,000    |             |             |             |          | We have no back up radios if a radio goes down.                                              |
| Rope Rescue Equipment                | 10                                       | \$15,000    | \$ 6,000     |             |             |             |          | Rope Rescue equipment for New Rescue. High Angle, Confined space                             |
| John Deere UTV                       | 15                                       |             | \$ 24,995    |             |             |             |          | UTV for use in lost person search, Timber Fires, rescue calls in Morse or Bicentennial park. |
| Trench Shoring                       | 20                                       |             | \$ 18,000    |             |             |             |          | Trench Shoring for below grade rescues in open trench's where work is being done.            |
| TOTAL                                |                                          | \$ 299,985  | \$ 1,009,995 | \$ 765,000  | \$ 900,000  | \$ -        | \$ -     |                                                                                              |
| ENDING BALANCE                       |                                          | \$ -        | \$ -         | \$ -        | \$ -        | \$ -        |          |                                                                                              |

| Drainage                       | Anticipated Useful Life (in Years) | 2024-25<br>Fiscal Year | 2025-26<br>Fiscal Year | 2026-27<br>Fiscal Year | 2027-28<br>Fiscal Year | 2028-29<br>Fiscal Year | Future Projects |                                    |
|--------------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|------------------------------------|
| <b>BALANCE BROUGHT FORWARD</b> |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>REVENUE SOURCES</b>         |                                    |                        |                        |                        |                        |                        |                 |                                    |
| Drainage Sales Tax             |                                    | \$ 210,000             | \$ 150,000             | \$ -                   | \$ 15,000              |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>TOTAL REVENUE SOURCES</b>   |                                    | \$ 210,000             | \$ 150,000             | \$ -                   | \$ 15,000              | \$ -                   |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>EXPENDITURES</b>            |                                    |                        |                        |                        |                        |                        |                 |                                    |
| Replace Flat Bed Dump Truck    | 20                                 |                        | \$ 150,000             |                        |                        |                        |                 |                                    |
| Replace 1 Mower                | 10                                 | \$ 20,000              |                        |                        | \$ 15,000              |                        |                 | Replacement for our 2012 72" mower |
| Grant 20% match Retention Pond |                                    | \$ 40,000              |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
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|                                |                                    |                        |                        |                        |                        |                        |                 |                                    |
| <b>TOTAL</b>                   |                                    | \$ 60,000              | \$ 150,000             | \$ -                   | \$ 15,000              | \$ -                   | \$ -            |                                    |
| <b>ENDING BALANCE</b>          |                                    | \$ 150,000             | \$ -                   | \$ -                   | \$ -                   | \$ -                   |                 |                                    |



| Senior Center                  |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29  | Future   |  |
|--------------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|----------|----------|--|
| DEPARTMENT/DESCRIPTION         |  | Fiscal Year                        | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |  |
| <b>BALANCE BROUGHT FORWARD</b> |  |                                    |             |             |             |             |          |          |  |
| <b>REVENUE SOURCES</b>         |  |                                    |             |             |             |             |          |          |  |
| Senior Center Sales Tax        |  | \$ -                               |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL REVENUE SOURCES</b>   |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |
| <b>EXPENDITURES</b>            |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
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|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
|                                |  |                                    |             |             |             |             |          |          |  |
| <b>TOTAL</b>                   |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |  |
| <b>ENDING BALANCE</b>          |  | \$ -                               | \$ -        | \$ -        | \$ -        | \$ -        |          |          |  |

| Parks & Recreation                  | Anticipated<br>Useful Life (in<br>Years) | 2024-25           | 2025-26          | 2026-27          | 2027-28          | 2028-29          | Future      |                                                                                         |
|-------------------------------------|------------------------------------------|-------------------|------------------|------------------|------------------|------------------|-------------|-----------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION              |                                          | Fiscal Year       | Fiscal Year      | Fiscal Year      | Fiscal Year      | Fiscal Year      | Projects    | Comments                                                                                |
| <b>BALANCE BROUGHT FORWARD</b>      |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| <b>REVENUE SOURCES</b>              |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| Parks & Recreation Sales Tax        |                                          | \$35,000          | \$30,000         | \$30,000         | \$30,000         | \$30,000         |             |                                                                                         |
| Parks & Recreation Fund Balance     |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| Bicycle Trails Grant                |                                          | \$89,172          |                  |                  |                  |                  |             | Downstream Loop - Depending upon RTP Grant through DNR                                  |
| General Fund Revenues               |                                          | \$630,000         | \$20,000         | \$20,000         | \$20,000         | \$20,000         |             |                                                                                         |
| <b>TOTAL REVENUE SOURCES</b>        |                                          | <b>\$ 754,172</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> |             |                                                                                         |
| <b>EXPENDITURES</b>                 |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| Bicycle Trails                      |                                          | \$89,172          |                  |                  |                  |                  |             | Downstream Loop - Depending upon RTP Grant through DNR                                  |
| Morse Park Ball field lighting      | 20 years                                 | \$30,000          | \$30,000         | \$30,000         | \$30,000         | \$30,000         |             | Five year plan to change out all old lighting at ball fields, to new LED lights         |
| Mower replacement                   | 8 Years                                  |                   | \$20,000         | \$20,000         | \$20,000         | \$20,000         |             | Trade in and purchase new mower annually                                                |
| Christmas lighting displays         | 10 years                                 | \$10,000          |                  |                  |                  |                  |             | LED Christmas lighting displays down College St.                                        |
| Asphalt paving of two small areas   | 20 years                                 | \$10,000          |                  |                  |                  |                  |             | Paving areas at Park shop and small ADA Parking lot at Scenic Park.                     |
| New sidewalk at Scenic Park         | 20 years                                 | \$5,000           |                  |                  |                  |                  |             | New ADA sidewalk at Scenic Park.                                                        |
| ADA Restroom at Scenic Park.        | 20 years                                 | \$35,000          |                  |                  |                  |                  |             | Change storage room into a ADA Restroom at Scenic Park.                                 |
| New truck with convenience bed      | 20 years                                 | \$65,000          |                  |                  |                  |                  |             | New truck with convenience bed for restroom detail and multi use.                       |
| Repair rock wall at Big Spring Park | 10 years                                 | \$10,000          |                  |                  |                  |                  |             | for survey of the property and repair the rock wall at BSP.                             |
| Architectural Design Aquatic center | 30 years                                 | \$500,000         |                  |                  |                  |                  |             | For new golf facilities and Aquatic Center / could split the cost with the golf course. |
|                                     |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
|                                     |                                          |                   |                  |                  |                  |                  |             |                                                                                         |
| <b>TOTAL</b>                        |                                          | <b>\$ 754,172</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ 50,000</b> | <b>\$ -</b> |                                                                                         |
| <b>ENDING BALANCE</b>               |                                          | <b>\$ -</b>       | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      |             |                                                                                         |

|                              |  |                        |             |             |             |             |             |          |          |
|------------------------------|--|------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| Auditorium & Lampo           |  | Anticipated            | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   | Comments |
| DEPARTMENT/DESCRIPTION       |  | Useful Life (in Years) | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects |          |
| BALANCE BROUGHT FORWARD      |  |                        |             |             |             |             |             |          |          |
| <b>REVENUE SOURCES</b>       |  |                        |             |             |             |             |             |          |          |
| Auditorium Sales Tax         |  |                        | \$ -        |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
| <b>TOTAL REVENUE SOURCES</b> |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |
| <b>EXPENDITURES</b>          |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
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|                              |  |                        |             |             |             |             |             |          |          |
|                              |  |                        |             |             |             |             |             |          |          |
| <b>TOTAL</b>                 |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| <b>ENDING BALANCE</b>        |  |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Golf Course                                 | Anticipated<br>Useful Life (in<br>Years) | 2024-25           | 2025-26           | 2026-27           | 2027-28           | 2028-29     | Future      |                                                                                                                               |
|---------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION                      |                                          | Fiscal Year       | Fiscal Year       | Fiscal Year       | Fiscal Year       | Fiscal Year | Projects    | Comments                                                                                                                      |
| <b>BALANCE BROUGHT FORWARD</b>              |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| <b>REVENUE SOURCES</b>                      |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Parks & Recreation Sales Tax                |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Parks & Recreation Fund Balance             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Capital Improvement Sales Tax               |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| General Fund Revenues                       |                                          | \$ 271,790        | \$ 688,560        | \$ 265,000        | \$ 400,000        |             |             |                                                                                                                               |
| Golf Course Revenues                        |                                          | \$ 28,210         |                   | \$ -              |                   |             |             |                                                                                                                               |
| Golf Cart Replacement Reserve               |                                          | \$20,000          |                   |                   |                   |             |             |                                                                                                                               |
| <b>TOTAL REVENUE SOURCES</b>                |                                          | <b>\$ 320,000</b> | <b>\$ 688,560</b> | <b>\$ 265,000</b> | <b>\$ 400,000</b> | <b>\$ -</b> |             |                                                                                                                               |
| <b>EXPENDITURES</b>                         |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| Pro Shop Restrooms/Kitchen                  | 25 years                                 | \$ 20,000         | \$ 20,000         |                   |                   |             |             | Address ADA needs in the 4 Pro Shop Restrooms/ Kitchen Health Dept Needs.                                                     |
| Carts Replacement                           |                                          |                   | \$ 20,000         |                   |                   |             |             |                                                                                                                               |
| Beverage Cart                               |                                          |                   | \$ 18,000         |                   |                   |             |             |                                                                                                                               |
| PumpHouse                                   |                                          |                   | \$ 80,000         |                   |                   |             |             |                                                                                                                               |
| Beverage Cart Tablet/Cell Service for sales |                                          |                   | \$ 560            |                   |                   |             |             |                                                                                                                               |
| Overseed Fairways                           |                                          |                   | \$ 100,000        |                   |                   |             |             | <a href="https://gsrpdf.lib.msu.edu/?file=/2000s/2000/000101.pdf">https://gsrpdf.lib.msu.edu/?file=/2000s/2000/000101.pdf</a> |
| Replacement Irrigation System               |                                          | \$ 300,000        | \$ 300,000        |                   |                   |             |             | TBD- Getting prices for new heads                                                                                             |
| Level tee boxes                             |                                          |                   | \$ 90,000         |                   |                   |             |             | #2, #8 white, #6 red \$1.50 to 2.5 sq ft estimate 10,000 sq ft                                                                |
| Enlarge tee boxes                           |                                          |                   | \$ 60,000         |                   |                   |             |             | #3, #8 red \$1.50 - \$2.5 sq ft estimate 10,000 sq ft                                                                         |
| Roof/Awning                                 |                                          |                   |                   | \$ 15,000         |                   |             |             | Front of Pro Shop cement area                                                                                                 |
| Refurbish Maintenance barn                  |                                          |                   |                   | \$ 50,000         |                   |             |             |                                                                                                                               |
| Replace Cart barns                          |                                          |                   |                   | \$ 200,000        |                   |             |             | One large barn with stall for washing carts                                                                                   |
| Bar and Grill in Club House                 |                                          |                   |                   |                   | \$ 100,000        |             |             |                                                                                                                               |
| Refurbish some holes at Lake course         |                                          |                   |                   |                   | \$ 300,000        |             |             |                                                                                                                               |
| Solar Power for Pro Shop                    |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
|                                             |                                          |                   |                   |                   |                   |             |             |                                                                                                                               |
| <b>TOTAL</b>                                |                                          | <b>\$ 320,000</b> | <b>\$ 688,560</b> | <b>\$ 265,000</b> | <b>\$ 400,000</b> | <b>\$ -</b> | <b>\$ -</b> |                                                                                                                               |
| <b>ENDING BALANCE</b>                       |                                          | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b> |             |                                                                                                                               |

| Street Department                       | Anticipated<br>Useful Life (in<br>Years) | 2024-25           | 2025-26           | 2026-27           | 2027-28           | 2028-29           | Future      |                                                                                       |
|-----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|---------------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION                  |                                          | Fiscal Year       | Fiscal Year       | Fiscal Year       | Fiscal Year       | Fiscal Year       | Projects    | Comments                                                                              |
| <b>BALANCE BROUGHT FORWARD</b>          |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
| <b>REVENUE SOURCES</b>                  |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
| Street Sales Tax                        |                                          | \$ 629,500        | \$ 970,000        | \$ 400,000        | \$ 600,000        | \$ 400,000        |             |                                                                                       |
| Street Fund Balance                     |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
|                                         |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
| <b>TOTAL REVENUE SOURCES</b>            |                                          | <b>\$ 629,500</b> | <b>\$ 970,000</b> | <b>\$ 400,000</b> | <b>\$ 600,000</b> | <b>\$ 400,000</b> |             |                                                                                       |
| <b>EXPENDITURES</b>                     |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
| Street Contracts                        |                                          | \$ 600,000        | \$ 600,000        | \$ 400,000        | \$ 600,000        | \$ 400,000        |             | This is part of our 5 year improvement plan, bi-yearly slurry seal and yearly overlay |
| Trackhoe replacement                    | 15                                       |                   | \$ 220,000        |                   |                   |                   |             | Replacement Schedule for Trackhoe                                                     |
| Wheel loader replacement                | 15                                       |                   | \$ 150,000        |                   |                   |                   |             | Replacement Schedule for Wheel Loader                                                 |
| Trailer for mini excavator              | 20                                       | \$ 15,000         |                   |                   |                   |                   |             | Additional trailer for hauling mini excavator                                         |
| Snow Box for skid steer                 | 20                                       | \$ 7,000          |                   |                   |                   |                   |             | Snow removal equipment for the square and parking lots downtown                       |
| Electricity and lights storage barn 50% | 30                                       | \$ 7,500          |                   |                   |                   |                   |             | Electricity and lights for equipment under the storage barn. Shared with D&M          |
|                                         |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
|                                         |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
|                                         |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
|                                         |                                          |                   |                   |                   |                   |                   |             |                                                                                       |
| <b>TOTAL</b>                            |                                          | <b>\$ 629,500</b> | <b>\$ 970,000</b> | <b>\$ 400,000</b> | <b>\$ 600,000</b> | <b>\$ 400,000</b> | <b>\$ -</b> |                                                                                       |
| <b>ENDING BALANCE</b>                   |                                          | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       |             |                                                                                       |

| Water Admin             |  | Anticipated Useful Life (in Years) | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |          |
|-------------------------|--|------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPARTMENT/DESCRIPTION  |  |                                    | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments |
| BALANCE BROUGHT FORWARD |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
| EXPENDITURES            |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
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|                         |  |                                    |             |             |             |             |             |          |          |
|                         |  |                                    |             |             |             |             |             |          |          |
| TOTAL                   |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -     |          |
| ENDING BALANCE          |  |                                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |          |

| Distribution & Maintenance                                             |    | Anticipated            | 2024-25             | 2025-26             | 2026-27             | 2027-28             | 2028-29             | Future            | Comments                                                                         |
|------------------------------------------------------------------------|----|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|----------------------------------------------------------------------------------|
| DEPARTMENT/DESCRIPTION                                                 |    | Useful Life (in Years) | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Fiscal Year         | Projects          |                                                                                  |
| <b>BALANCE BROUGHT FORWARD</b>                                         |    |                        |                     |                     |                     |                     |                     |                   |                                                                                  |
| <b>REVENUE SOURCES</b>                                                 |    |                        |                     |                     |                     |                     |                     |                   |                                                                                  |
| Water Revenues                                                         |    |                        | \$ 359,500          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 289,000          |                   |                                                                                  |
| Water Reservices                                                       |    |                        | \$ 1,265,823        | \$ 1,265,823        | \$ 1,265,823        | \$ 1,265,823        | \$ 1,245,322        |                   |                                                                                  |
| <b>TOTAL REVENUE SOURCES</b>                                           |    |                        | <b>\$ 1,625,323</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,534,322</b> |                   |                                                                                  |
| <b>EXPENDITURES</b>                                                    |    |                        |                     |                     |                     |                     |                     |                   |                                                                                  |
| Water Main Replacement Reserve                                         |    |                        | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 250,000        | Reserve to allow needed water main replacement                                   |
| 1 Ton Truck                                                            | 15 |                        | \$ 85,000           |                     |                     |                     |                     |                   | Replacement of # 204 2015 F350 extended cab                                      |
| Hydraulic power pack                                                   | 15 |                        | \$ 12,000           |                     |                     |                     |                     |                   | Additional hydraulic power pack for our trash pumps and equipment                |
| Walk behind street saw                                                 | 15 |                        | \$ 5,000            |                     |                     |                     |                     |                   | Replacement of our 20 year old walk behind saw                                   |
| 1/2 ton Truck                                                          | 15 |                        |                     |                     |                     |                     | \$ 39,000           |                   | Replacement of # 201 2014 F150                                                   |
| City-Upper pressure zone water line replacements                       |    |                        | \$ 632,912          | \$ 632,912          | \$ 632,912          | \$ 632,912          |                     |                   | Water Study Recommendationd Priority Improvements                                |
| Reconfigure City-Upper and City-Downtown pressure zone boundary to     |    |                        | \$ 632,912          | \$ 632,912          | \$ 632,912          | \$ 632,912          |                     |                   | Water Study Recommendationd Priority Improvements                                |
| City-Upper pressure zone 6" diameter cast iron water line replacements |    |                        |                     |                     |                     |                     | \$ 415,107          |                   | Water Study Recommendationd Priority Improvements                                |
| Dewey-Finney Water Tower Exterior Recoat                               |    |                        |                     |                     |                     |                     | \$ 415,107          |                   | Water Study Recommendationd Priority Improvements                                |
| Baxter Street Standpipe Interior Recoat                                |    |                        |                     |                     |                     |                     | \$ 415,107          |                   | Water Study Recommendationd Priority Improvements                                |
| Electricity and lights storage barn 50%                                | 30 |                        | \$ 7,500            |                     |                     |                     |                     |                   | Electricity and lights for equipment under the storage barn. Shared with Streets |
| <b>TOTAL</b>                                                           |    |                        | <b>\$ 1,625,323</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,515,823</b> | <b>\$ 1,534,322</b> | <b>\$ 250,000</b> |                                                                                  |
| <b>ENDING BALANCE</b>                                                  |    |                        | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         |                   |                                                                                  |

|                                |                 |             |             |             |             |             |          |                                        |
|--------------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|----------|----------------------------------------|
| Meter Reading                  | Anticipated     | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                        |
|                                | Useful Life (in |             |             |             |             |             |          |                                        |
|                                | Years)          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                               |
| <b>DEPARTMENT/DESCRIPTION</b>  |                 |             |             |             |             |             |          |                                        |
| <b>BALANCE BROUGHT FORWARD</b> |                 |             |             |             |             |             |          |                                        |
| <b>REVENUE SOURCES</b>         |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
| Water Revenues                 |                 | \$ -        | \$ 40,000   | \$ -        | \$ -        | \$ -        | \$ -     |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
| <b>TOTAL REVENUE SOURCES</b>   |                 | \$ -        | \$ 40,000   | \$ -        | \$ -        | \$ -        |          |                                        |
| <b>EXPENDITURES</b>            |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
| 1/2 Ton Truck                  | 15              |             | \$ 40,000   |             |             |             |          | Replacement Schedule for service truck |
|                                |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
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|                                |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
|                                |                 |             |             |             |             |             |          |                                        |
| <b>TOTAL</b>                   |                 | \$ -        | \$ 40,000   | \$ -        | \$ -        | \$ -        | \$ -     |                                        |
| <b>ENDING BALANCE</b>          |                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |                                        |



|                                        |                        |             |             |             |             |             |          |                                 |
|----------------------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|----------|---------------------------------|
| Filtration                             | Anticipated            | 2024-25     | 2025-26     | 2026-27     | 2027-28     | 2028-29     | Future   |                                 |
| DEPARTMENT/DESCRIPTION                 | Useful Life (in Years) | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Projects | Comments                        |
| BALANCE BROUGHT FORWARD                |                        |             |             |             |             |             |          |                                 |
| REVENUE SOURCES                        |                        |             |             |             |             |             |          |                                 |
| Water Revenues                         |                        | \$ 84,000   | \$ 82,000   | \$ 78,000   | \$ 20,000   | \$ 15,000   | \$ -     |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
| TOTAL REVENUE SOURCES                  |                        | \$ 84,000   | \$ 82,000   | \$ 78,000   | \$ 20,000   | \$ 15,000   |          |                                 |
| EXPENDITURES                           |                        |             |             |             |             |             |          |                                 |
| Chlorine residual analyzer             |                        | \$ -        | \$ 10,000   |             |             | \$ 15,000   |          |                                 |
| Raw/finish water turbidimeters         |                        | \$ -        | \$ 10,000   |             |             |             |          | Total of 2 (1 finish, 1 raw)    |
| Filter turbidimeters                   |                        | \$ 12,000   | \$ 12,000   | \$ 8,000    | \$ 8,000    |             |          | Total of 4, replace 1 each year |
| Flow meters                            |                        | \$ 12,000   | \$ 20,000   |             | \$ 12,000   |             |          | Total of 2 (1 finish, 1 raw)    |
| Crowder pump station high service pump |                        | \$ 30,000   | \$ 30,000   | \$ 30,000   |             |             |          | Total of 3 (2 large, 1 small)   |
| Raw Water Pump Rebuild                 |                        | \$ 30,000   |             | \$ 40,000   |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
|                                        |                        |             |             |             |             |             |          |                                 |
| TOTAL                                  |                        | \$ 84,000   | \$ 82,000   | \$ 78,000   | \$ 20,000   | \$ 15,000   | \$ -     |                                 |
| ENDING BALANCE                         |                        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |          |                                 |



---

**REQUESTED COUNCIL MEETING DATE:** August 20, 2024

**ITEM:** Bill No. 2024-71: Hickory Avenue partial Right-of-Way Abandonment for Habitat for Humanity

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**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Bill No. 2024-71 Neosho declaring surplus Hickory Street R-of-W
  2. Original lots
  3. Hickory Street ROW
  4. 24250 Model (1)
  5. Habitat For Humanity 24250 PRELIMINARY
- 

**PURPOSE:**

The purpose of this item is to gain the Council's approval to abandon 25' of the west side right of way for Hickory Avenue between Mary Avenue and Jefferson Avenue.

**BACKGROUND:**

In the fall of 2023, Habitat for Humanity approached the City Council about the possibility of the City abandoning part of the west side of the Hickory Avenue right-of-way for the construction of a H4H home on the southwest corner of Hickory Avenue and Mary Avenue. H4H is requesting that western 25' of the 80' Hickory Avenue right-of-way be abandoned between Mary Avenue and Jefferson Avenue.

**RECOMMENDATION:**

Staff Recommend that the Council authorizes the partial right of way abandonment.

**AN ORDINANCE of the City of Neosho declaring a certain right-of-way surplus and abandoning and vacating the west Twenty-Five Feet of right-of-way of Hickory Street between Mary Avenue and Jefferson Avenue and authorizing the same to revert to the abutting property owners.**

WHEREAS, Habitat for Humanity has requested that certain right-of-way use to the City of Neosho, Missouri, be abandoned and revert to the owner of the adjacent property owner for the purpose of non-profit residential construction; and

WHEREAS, the City Council has determined that all city and utility purposes within the right-of-way have been removed and/or relocated, that maintaining the right-of-way serves no public purpose and the same should be declared surplus and abandoned and vacated.

**NOW, THEREFORE, BE IT ORDAINED** by the City Council of the City of Neosho, Missouri, as follows:

**Section 1.** That the west twenty-five (25') feet of right-of-way west of Hickory Street between Mary Avenue and Jefferson Avenue be abandoned and vacated with the same allowed to revert to the abutting property owners, with the section of abandoned and vacated right-of-way being legally described as:

*All of the West Twenty-five (25') of Hickory Street lying south of the South Right-of-Way of Mary Avenue and North of the North Right-of-Way of Jefferson Avenue in Neosho City Addition in the City of Neosho, Newton County, Missouri, according to the recorded plat thereof, subject to any existing rights-of-way or easements for utilities and other encumbrances and rights of record.*

**Section 2.** That the City Clerk is authorized to send a certified copy of this Ordinance to the Newton County Recorder of Deeds for recording the same in Newton County, Missouri.

**Section 3.** This Ordinance shall be effective                     , 2024.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

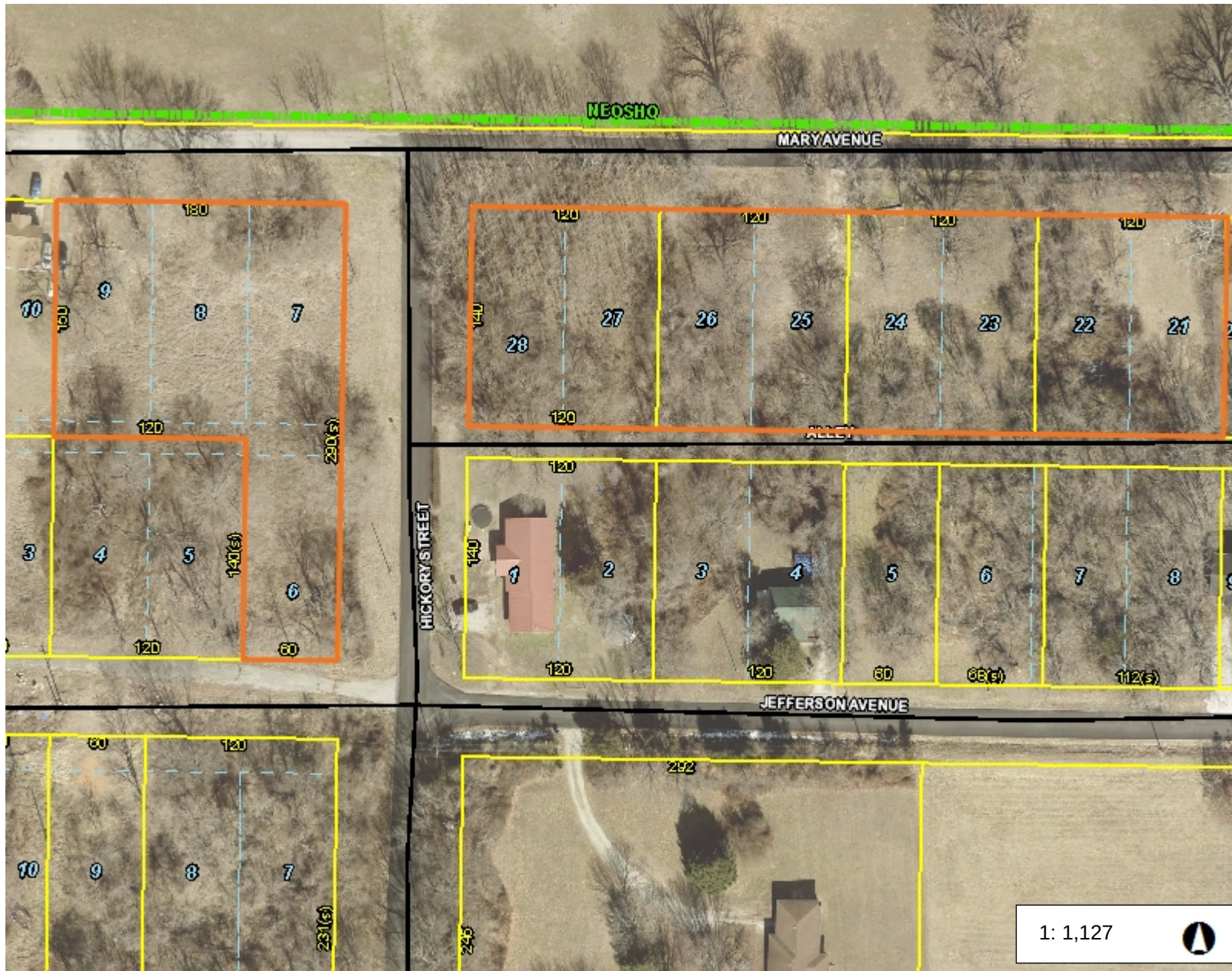
\_\_\_\_\_  
Cheyenne Wright, City Clerk  
SEAL

APPROVED AS TO FORM:

---

Derek A. Snyder, City Attorney

# Neosho, MO



## Legend

### Neosho Streets

- <all other values>
- INTERSTATE
- U.S. HIGHWAY
- STATE HIGHWAY
- ALLEY
- CITY STREET
- NAMED COUNTY ROAD
- PLATTED/UNDEVELOPED
- UNNAMED
- VACATED STREET

- Parcel
- Corporate Limit Line
- Original Lot

## Notes

Original lots

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
THIS MAP IS NOT TO BE USED FOR NAVIGATION

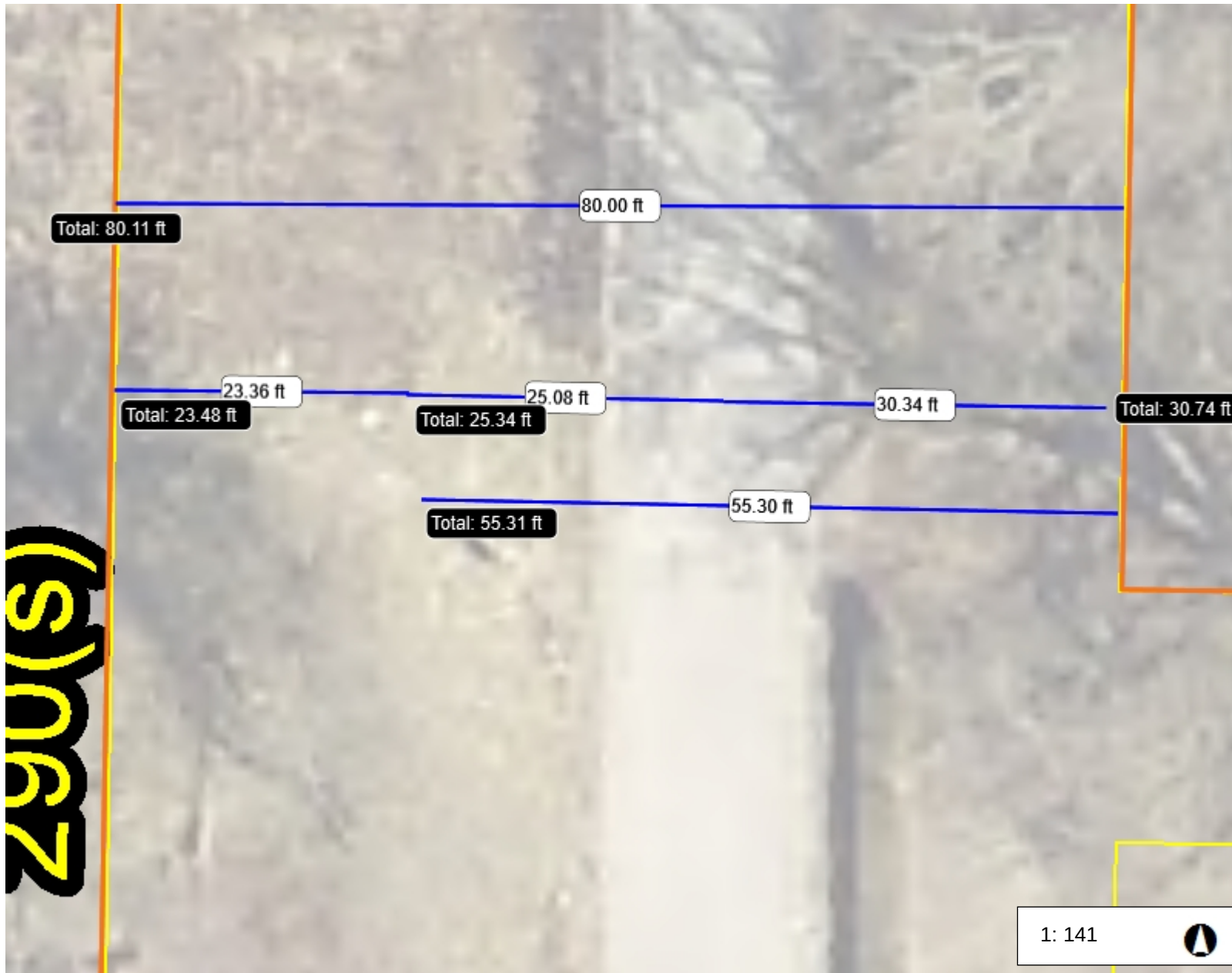


# Neosho, MO



## Legend

-  Parcel
-  Corporate Limit Line



1: 141



23.5 0 11.74 23.5 Feet

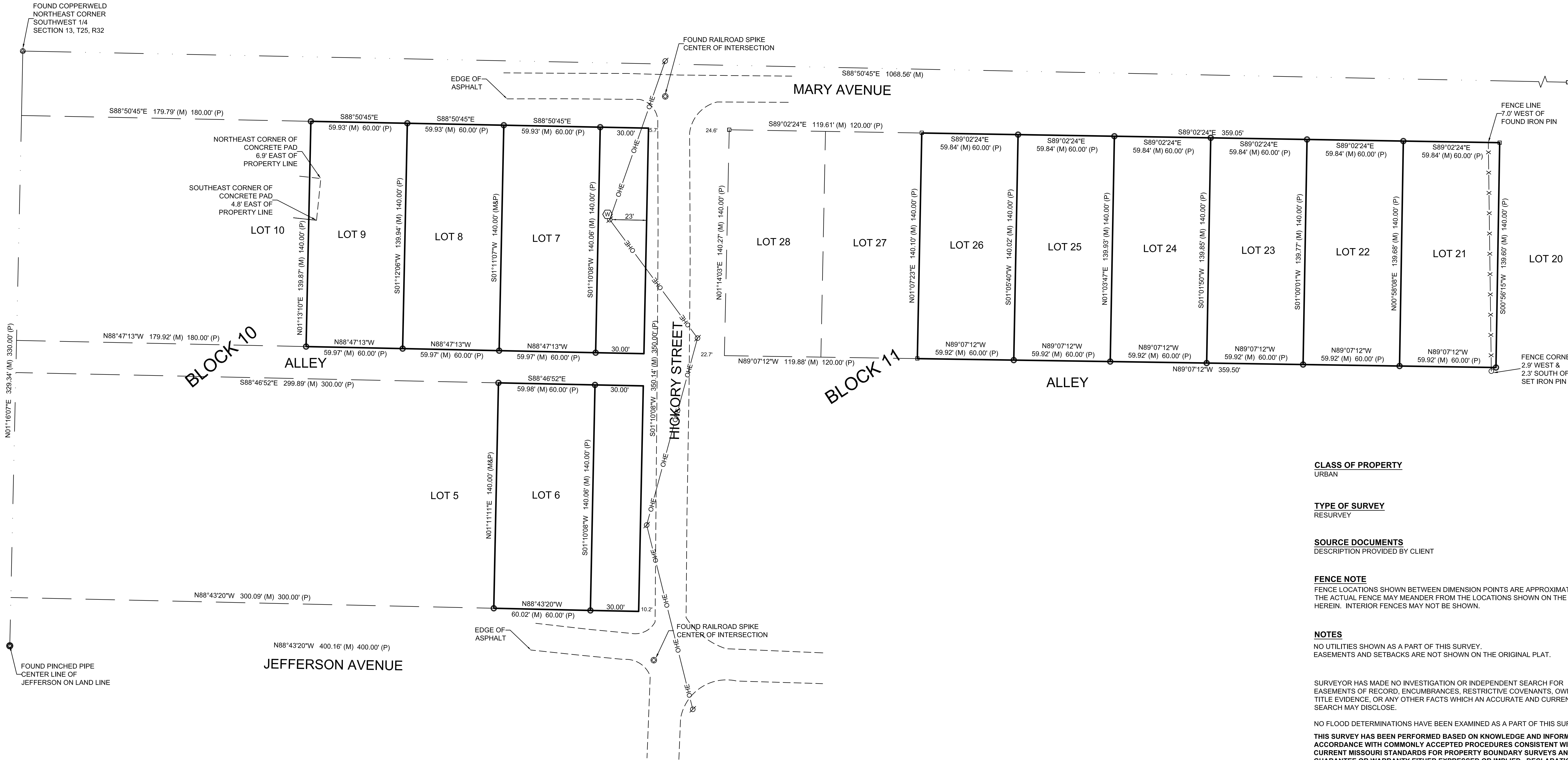
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THIS MAP IS NOT TO BE USED FOR NAVIGATION

## Notes

Hickory Street Right of Way

**DESCRIPTION**  
ALL OF LOTS TWENTY ONE (21), TWENTY TWO (22), TWENTY THREE (23), TWENTY FOUR (24), TWENTY FIVE (25), AND TWENTY SIX (26) IN BLOCK 11 AND LOTS NUMBERED SIX (6), SEVEN (7), EIGHT (8), AND NINE (9) IN BLOCK 10 IN NEOSHO CITY ADDITION IN THE CITY OF NEOSHO, NEWTON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

**BASIS OF BEARINGS**  
BEARINGS ARE BASED ON GRID NORTH OF THE MISSOURI COORDINATE SYSTEM OF 1983 MISSOURI WEST ZONE.



**CLASS OF PROPERTY**  
URBAN

**TYPE OF SURVEY**  
RESURVEY

**SOURCE DOCUMENTS**  
DESCRIPTION PROVIDED BY CLIENT

**FENCE NOTE**  
FENCE LOCATIONS SHOWN BETWEEN DIMENSION POINTS ARE APPROXIMATE AND THE ACTUAL FENCE MAY MEANDER FROM THE LOCATIONS SHOWN ON THE PLAT HEREIN. INTERIOR FENCES MAY NOT BE SHOWN.

**NOTES**  
NO UTILITIES SHOWN AS A PART OF THIS SURVEY.  
EASEMENTS AND SETBACKS ARE NOT SHOWN ON THE ORIGINAL PLAT.

SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

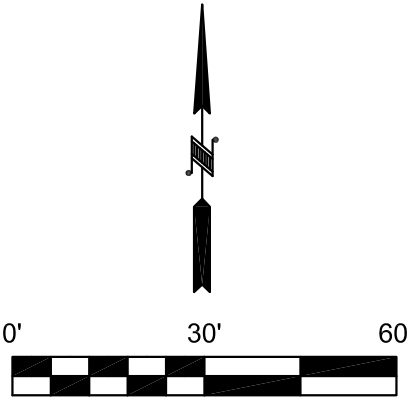
NO FLOOD DETERMINATIONS HAVE BEEN EXAMINED AS A PART OF THIS SURVEY.

THIS SURVEY HAS BEEN PERFORMED BASED ON KNOWLEDGE AND INFORMATION IN ACCORDANCE WITH COMMONLY ACCEPTED PROCEDURES CONSISTENT WITH THE CURRENT MISSOURI STANDARDS FOR PROPERTY BOUNDARY SURVEYS AND IS NOT A GUARANTEE OR WARRANTY EITHER EXPRESSED OR IMPLIED. DECLARATION IS MADE TO THE ORIGINAL PURCHASER OF THE SURVEY. IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS AND MAY NOT BE USED IN CONNECTION WITH A "SURVEY AFFIDAVIT" OR SIMILAR DOCUMENT, STATEMENT, OR MECHANISM TO OBTAIN TITLE INSURANCE FOR ANY SUBSEQUENT OR FUTURE GRANTEEES.

CERTIFICATE OF AUTHORITY LICENSE NUMBER LS-2014013548 EXPIRATION 12/31/2024

|             |                                                                                                              |                    |                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------|
| PRELIMINARY | <b>MJSURVEYING, LLC</b><br>www.MJSurveyingLLC.com<br>PH 417.623.2525<br>2224 S. MAIN ST.<br>JOPLIN, MO 64804 |                    |                                                                 |
|             | DRAWN<br>AMM                                                                                                 | DATE<br>05/14/2024 | NEOSHO HABITAT FOR<br>HUMANITY, LOTS 21-26                      |
|             | APPROVED<br>BAA                                                                                              | DATE<br>05/16/2024 | BLK 11 & 6-9 BLK 10<br>NEOSHO CITY ADD. IN<br>NEWTON COUNTY, MO |
|             | SCALE<br>1"=30'                                                                                              | SHEET<br>B/R       | PROJECT # 24250                                                 |

- LEGEND**
- FOUND IRON PIN
  - SET IRON PIN
  - FOUND COPPERWELD
  - ⊗ FOUND RR SPIKE
  - (M) MEASURED
  - (P) PLAT

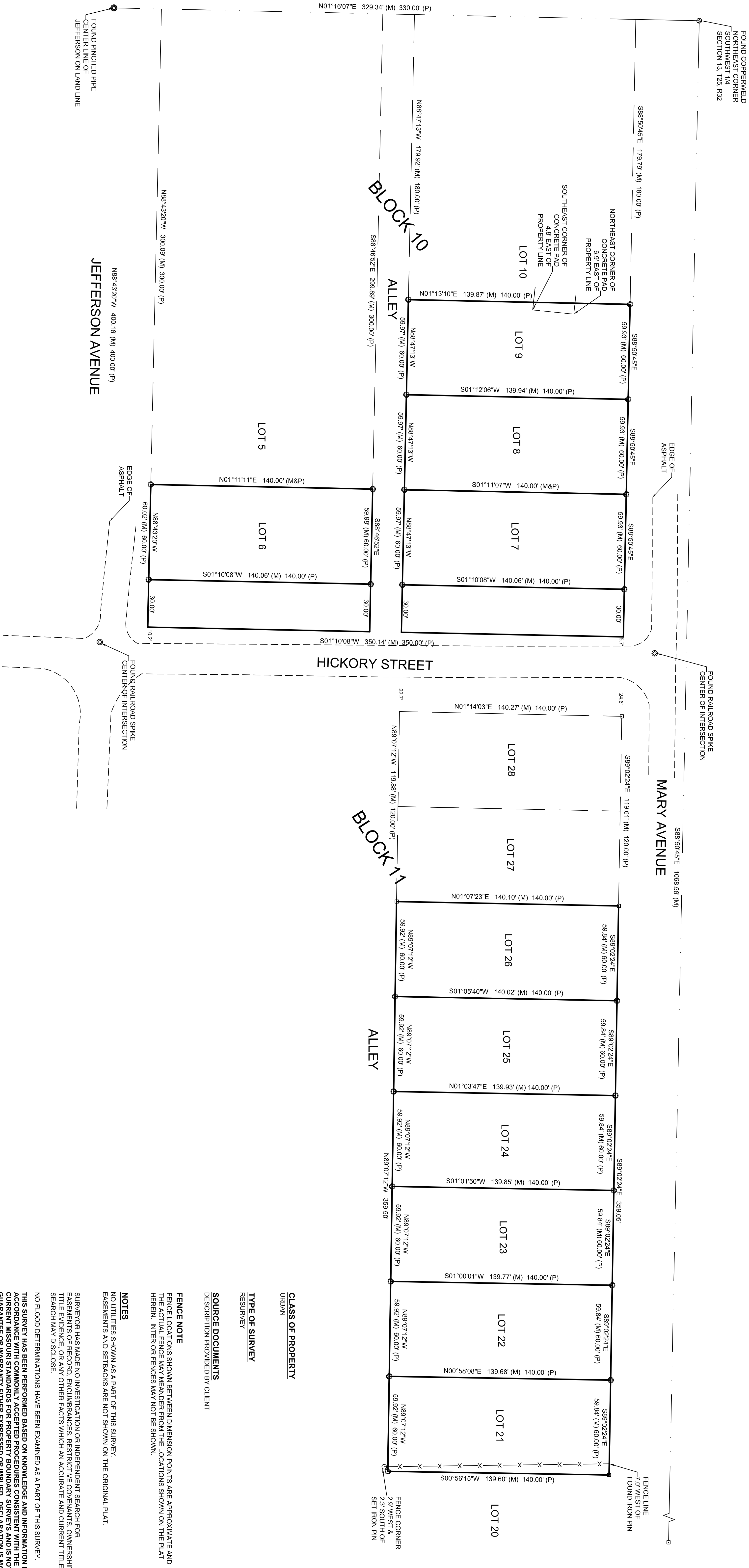


SURVEY NOT VALID UNLESS SIGNED IN BLUE INK



**DESCRIPTION**  
ALL OF LOTS TWENTY ONE (21), TWENTY TWO (22), TWENTY THREE (23), TWENTY FOUR (24), TWENTY FIVE (25), AND TWENTY SIX (26) IN BLOCK 11 AND LOTS NUMBERED SIX (6), SEVEN (7), EIGHT (8), AND NINE (9) IN BLOCK 10 IN NEOSHO CITY ADDITION IN THE CITY OF NEOSHO, NEWTON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

**BASIS OF BEARINGS**  
BEARINGS ARE BASED ON GRID NORTH OF THE MISSOURI COORDINATE SYSTEM OF 1983 MISSOURI WEST ZONE.



**NOTES**  
NO UTILITIES SHOWN AS A PART OF THIS SURVEY.  
EASEMENTS AND SETBACKS ARE NOT SHOWN ON THE ORIGINAL PLAT.  
  
**NOTES**  
SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.  
  
NO FLOOD DETERMINATIONS HAVE BEEN EXAMINED AS A PART OF THIS SURVEY.  
  
THIS SURVEY HAS BEEN PERFORMED BASED ON KNOWLEDGE AND INFORMATION IN ACCORDANCE WITH COMMONLY ACCEPTED PROCEDURES CONSISTENT WITH THE CURRENT MISSOURI STANDARDS FOR PROPERTY BOUNDARY SURVEYS AND IS NOT A GUARANTEE OR WARRANTY EITHER EXPRESSED OR IMPLIED. DECLARATION IS MADE TO THE ORIGINAL PURCHASER OF THE SURVEY, IT IS NOT TRANSFERABLE TO ADDITIONAL INTERESTED PARTIES, SUBSEQUENT OWNERS AND ANY OTHER PARTY. THE SURVEYOR'S OBLIGATION TO THE CLIENT IS LIMITED TO THE OBTAINING OF THE INFORMATION AND THE PREPARATION OF THE SURVEY INSTRUMENTS. THE SURVEYOR DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF THE INFORMATION OBTAINED OR THE RESULTS OF THE SURVEY. THE SURVEYOR'S OBLIGATION TO THE CLIENT IS LIMITED TO THE OBTAINING OF THE INFORMATION AND THE PREPARATION OF THE SURVEY INSTRUMENTS. THE SURVEYOR DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF THE INFORMATION OBTAINED OR THE RESULTS OF THE SURVEY.

CERTIFICATE OF AUTHORITY LICENSE NUMBER LS-201401348 EXPIRATION 12/31/2024

PRELIMINARY

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05/14/2024

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**AN ORDINANCE of the City of Neosho declaring a certain right-of-way surplus and abandoning and vacating the west Twenty-Five Feet of right-of-way of Hickory Street between Mary Avenue and Jefferson Avenue and authorizing the same to revert to the abutting property owners.**

WHEREAS, Habitat for Humanity has requested that certain right-of-way use to the City of Neosho, Missouri, be abandoned and revert to the owner of the adjacent property owner for the purpose of non-profit residential construction; and

WHEREAS, the City Council has determined that all city and utility purposes within the right-of-way have been removed and/or relocated, that maintaining the right-of-way serves no public purpose and the same should be declared surplus and abandoned and vacated.

**NOW, THEREFORE, BE IT ORDAINED** by the City Council of the City of Neosho, Missouri, as follows:

**Section 1.** That the west twenty-five (25') feet of right-of-way west of Hickory Street between Mary Avenue and Jefferson Avenue be abandoned and vacated with the same allowed to revert to the abutting property owners, with the section of abandoned and vacated right-of-way being legally described as:

*All of the West Twenty-five (25') of Hickory Street lying south of the South Right-of-Way of Mary Avenue and North of the North Right-of-Way of Jefferson Avenue in Neosho City Addition in the City of Neosho, Newton County, Missouri, according to the recorded plat thereof, subject to any existing rights-of-way or easements for utilities and other encumbrances and rights of record.*

**Section 2.** That the City Clerk is authorized to send a certified copy of this Ordinance to the Newton County Recorder of Deeds for recording the same in Newton County, Missouri.

**Section 3.** This Ordinance shall be effective                     , 2024.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk  
SEAL

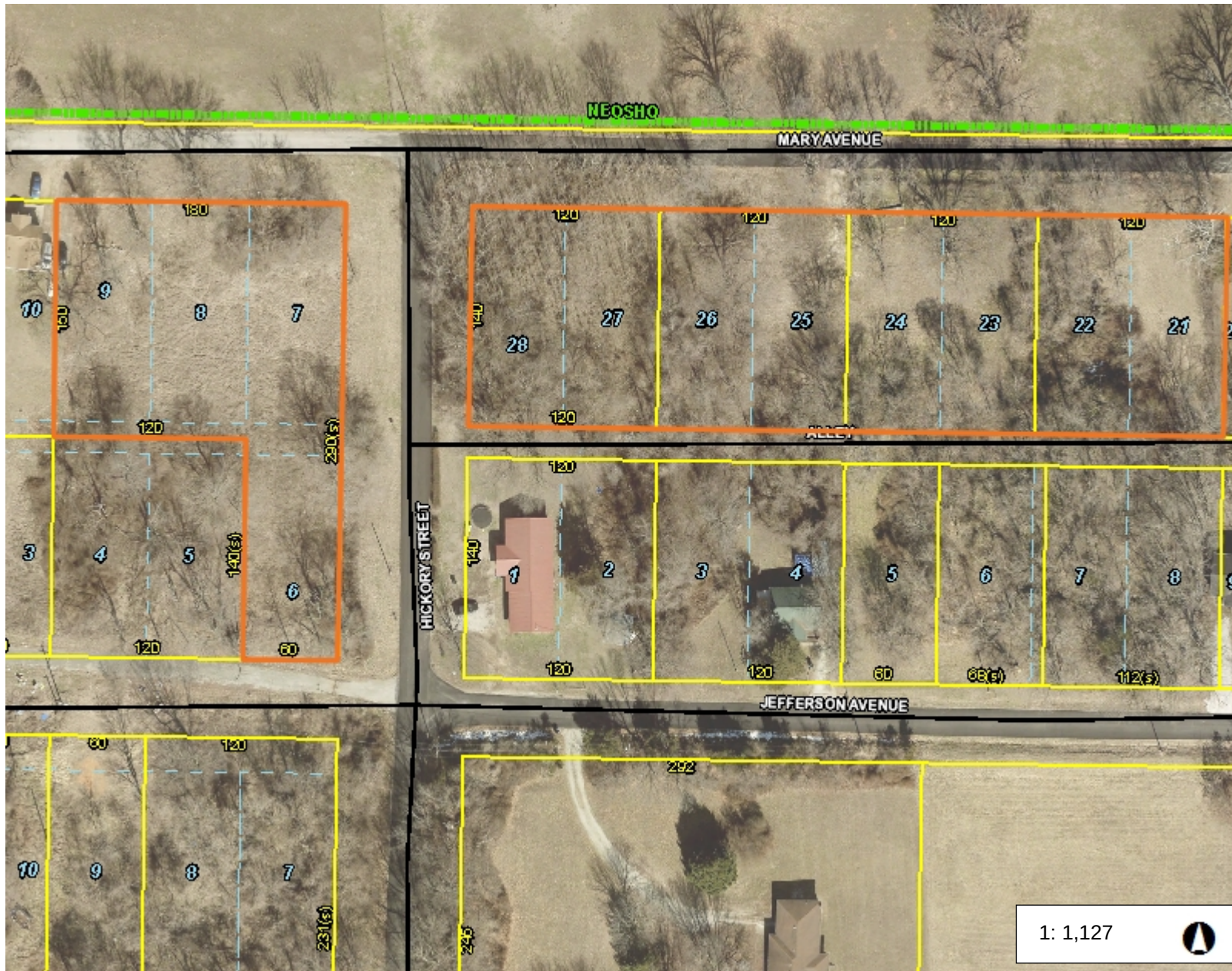
APPROVED AS TO FORM:

---

Derek A. Snyder, City Attorney



# Neosho, MO



## Legend

### Neosho Streets

- <all other values>
- INTERSTATE
- U.S. HIGHWAY
- STATE HIGHWAY
- ALLEY
- CITY STREET
- NAMED COUNTY ROAD
- PLATTED/UNDEVELOPED
- UNNAMED
- VACATED STREET

- Parcel
- Corporate Limit Line
- Original Lot

## Notes

Original lots

187.9 0 93.94 187.9 Feet

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
THIS MAP IS NOT TO BE USED FOR NAVIGATION

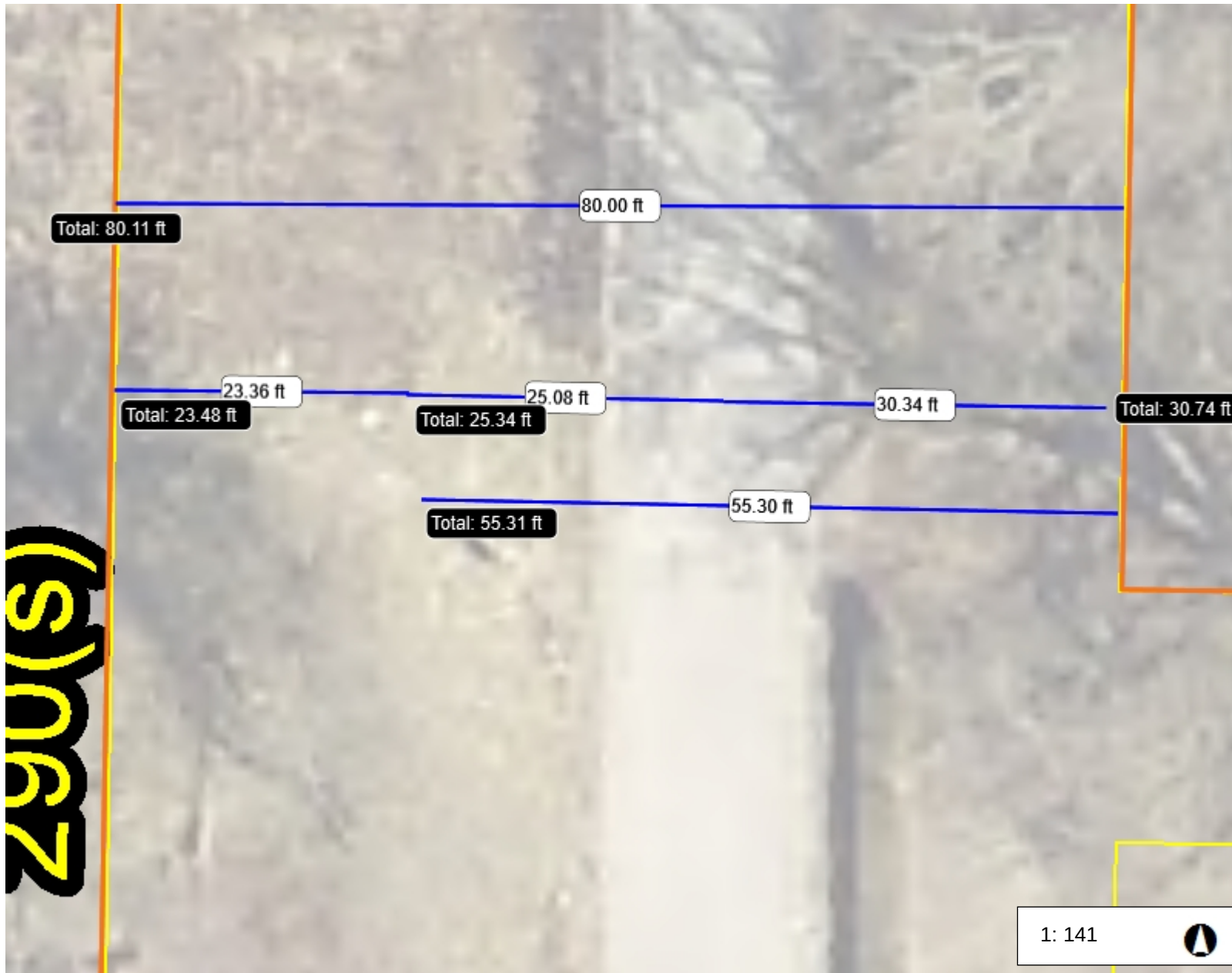


# Neosho, MO



## Legend

-  Parcel
-  Corporate Limit Line



1: 141



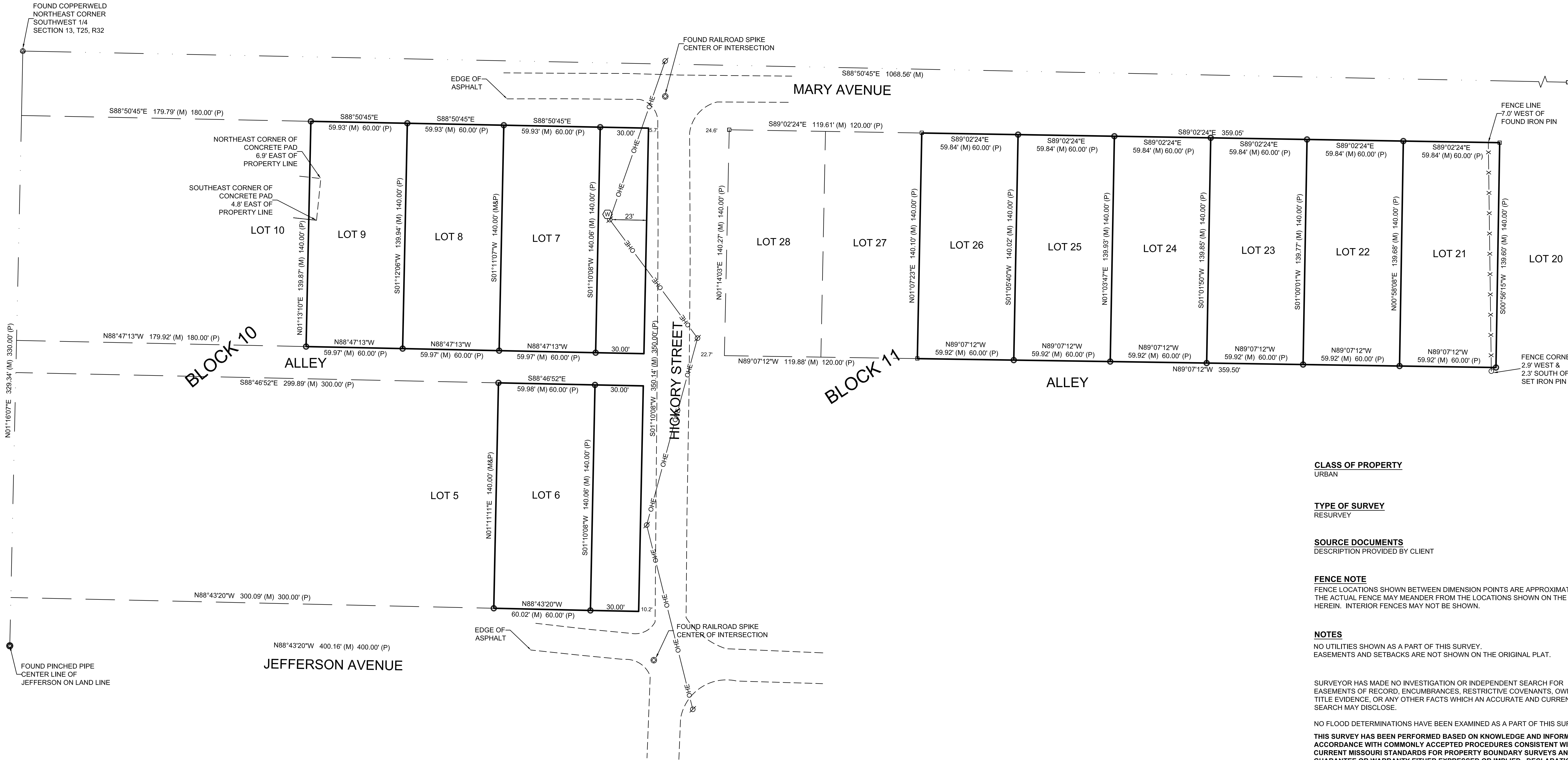
## Notes

Hickory Street Right of Way

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
THIS MAP IS NOT TO BE USED FOR NAVIGATION

**DESCRIPTION**  
ALL OF LOTS TWENTY ONE (21), TWENTY TWO (22), TWENTY THREE (23), TWENTY FOUR (24), TWENTY FIVE (25), AND TWENTY SIX (26) IN BLOCK 11 AND LOTS NUMBERED SIX (6), SEVEN (7), EIGHT (8), AND NINE (9) IN BLOCK 10 IN NEOSHO CITY ADDITION IN THE CITY OF NEOSHO, NEWTON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

**BASIS OF BEARINGS**  
BEARINGS ARE BASED ON GRID NORTH OF THE MISSOURI COORDINATE SYSTEM OF 1983 MISSOURI WEST ZONE.



**CLASS OF PROPERTY**  
URBAN

**TYPE OF SURVEY**  
RESURVEY

**SOURCE DOCUMENTS**  
DESCRIPTION PROVIDED BY CLIENT

**FENCE NOTE**  
FENCE LOCATIONS SHOWN BETWEEN DIMENSION POINTS ARE APPROXIMATE AND THE ACTUAL FENCE MAY MEANDER FROM THE LOCATIONS SHOWN ON THE PLAT HEREIN. INTERIOR FENCES MAY NOT BE SHOWN.

**NOTES**  
NO UTILITIES SHOWN AS A PART OF THIS SURVEY.  
EASEMENTS AND SETBACKS ARE NOT SHOWN ON THE ORIGINAL PLAT.

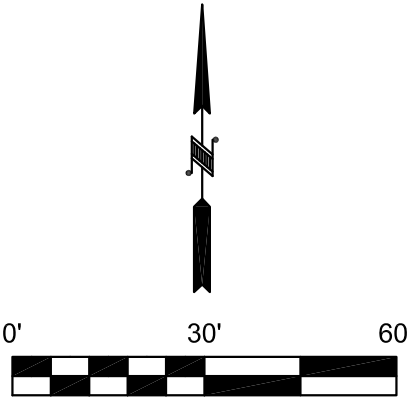
SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

NO FLOOD DETERMINATIONS HAVE BEEN EXAMINED AS A PART OF THIS SURVEY.

THIS SURVEY HAS BEEN PERFORMED BASED ON KNOWLEDGE AND INFORMATION IN ACCORDANCE WITH COMMONLY ACCEPTED PROCEDURES CONSISTENT WITH THE CURRENT MISSOURI STANDARDS FOR PROPERTY BOUNDARY SURVEYS AND IS NOT A GUARANTEE OR WARRANTY EITHER EXPRESSED OR IMPLIED. DECLARATION IS MADE TO THE ORIGINAL PURCHASER OF THE SURVEY. IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS AND MAY NOT BE USED IN CONNECTION WITH A "SURVEY AFFIDAVIT" OR SIMILAR DOCUMENT, STATEMENT, OR MECHANISM TO OBTAIN TITLE INSURANCE FOR ANY SUBSEQUENT OR FUTURE GRANTEEES.

CERTIFICATE OF AUTHORITY LICENSE NUMBER LS-2014013548 EXPIRATION 12/31/2024

- LEGEND**
- FOUND IRON PIN
  - SET IRON PIN
  - FOUND COPPERWELD
  - ⊗ FOUND RR SPIKE
  - (M) MEASURED
  - (P) PLAT



SURVEY NOT VALID UNLESS SIGNED IN BLUE INK

PRELIMINARY

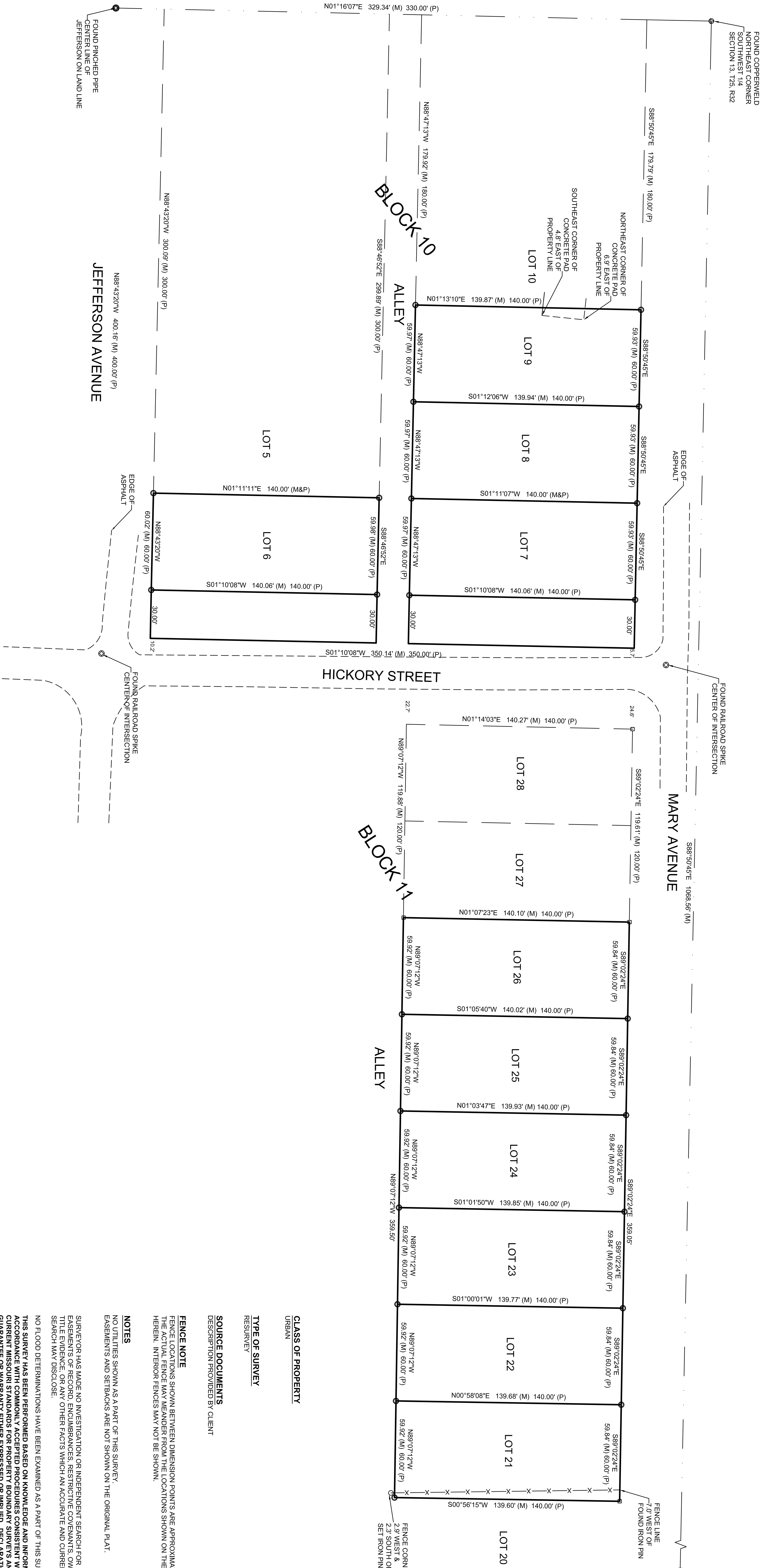
|                                                   |                    |                                                                 |                                                         |
|---------------------------------------------------|--------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| <b>MJSURVEYING, LLC</b><br>www.MJSurveyingLLC.com |                    |                                                                 | PH 417.623.2525<br>2224 S. MAIN ST.<br>JOPLIN, MO 64804 |
| DRAWN<br>AMM                                      | DATE<br>05/14/2024 | NEOSHO HABITAT FOR<br>HUMANITY, LOTS 21-26                      |                                                         |
| APPROVED<br>BAA                                   | DATE<br>05/16/2024 | BLK 11 & 6-9 BLK 10<br>NEOSHO CITY ADD. IN<br>NEWTON COUNTY, MO |                                                         |
| SCALE<br>1"=30'                                   | SHEET<br>B/R       | PROJECT # 24250                                                 |                                                         |



**DESCRIPTION**  
ALL OF LOTS TWENTY ONE (21), TWENTY TWO (22), TWENTY THREE (23), TWENTY FOUR (24), TWENTY FIVE (25), AND TWENTY SIX (26) IN BLOCK 11 AND LOTS NUMBERED SIX (6), SEVEN (7), EIGHT (8), AND NINE (9) IN BLOCK 10 IN NEOSHO CITY ADDITION IN THE CITY OF NEOSHO, NEWTON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

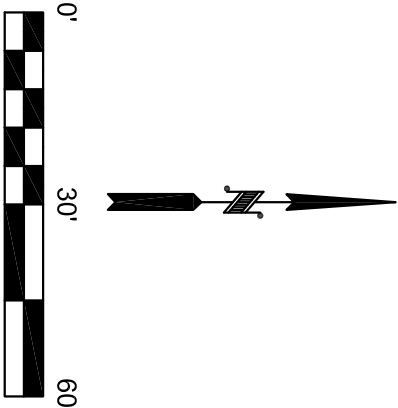
## BASIS OF BEARINGS

BEARINGS ARE BASED ON GRID NORTH OF THE MISSOURI COORDINATE SYSTEM OF 1983 MISSOURI WEST ZONE.



## LEGEND

- ☐ FOUND IRON PIN
- ☒ SET IRON PIN
- ☒ FOUND COPPERWELD
- ☒ FOUND RR SPIKE
- (M) MEASURED
- (P) PLAT



SURVEY NOT VALID UNLESS SIGNED IN BLUE INK

PRELIMINARY

|                                                                                     |                    |                                                                                                                                  |
|-------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
|  |                    | PH 417.623.3535<br>2324 S. MAIN ST.<br>JOPLIN, MO 64804                                                                          |
| www.MJSurveyingLLC.com                                                              |                    |                                                                                                                                  |
| DRAWN<br>AMM                                                                        | DATE<br>05/14/2024 | NOSHIO HABITAT FOR<br>HUMANITY, LOTS 21,36<br>BLK 11 & 6,9 BLK 10<br>NOSHIO CITY ADD. IN<br>NEWTON COUNTY, MO<br>PROJECT # 24250 |
| APPROVED<br>BAA                                                                     | DATE<br>05/16/2024 |                                                                                                                                  |
| SCALE<br>1"=30'                                                                     | SHEET              |                                                                                                                                  |
| TOTAL<br>SCALE                                                                      | B/R                |                                                                                                                                  |

**CERTIFICATE OF AUTHORITY LICENSE NUMBER LS-2014013548 EXPIRATION 12/31/2022**

---

**REQUESTED COUNCIL MEETING DATE:** August 20, 2024

**ITEM: Bill No. 2024-72: Rezoning of 722 S. College from R-1, First Dwelling House District to R-2, Second Dwelling House District**

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**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Bill No. 2024-72 Approving Rezoning of 722 S College
  2. 722 S. College St Application
  3. 722 S. College St map
  4. 722 S. College St zoning map
  5. 722 S. College St zoning map (near)
  6. 722 S College Ad
- 

**PURPOSE:**

The purpose of this item is to gain council's approval of an ordinance changing the zoning of 722 South College St from a R-1, First Dwelling House District to R-2 Second Dwelling House District.

**BACKGROUND:**

The property owner is wanting to remodel a home with a "mother-in-law" suite into a duplex. The property is located in a R-1 First Dwelling House District to a R-2, Second Dwelling House District. The property was properly posted and advertised and a public hearing was held by the Planning and Zoning Committee. No public comment was received. The Planning and Zoning Committee voted to recommend the approval of the rezoning to the City Council.

**RECOMMENDATION:**

Staff recommends the City Council approve the ordinance rezoning of 722 S College.



**AN ORDINANCE of the City of Neosho to amend the zoning District Map for certain property within the limits of the City located at the 722 South College, Neosho, Missouri, as requested by the owner, Fleshman Family Farm, LLC, a Missouri Limited Liability Company, from a District “R-1” First Dwelling House District to a District “R-2” Second Dwelling House District.**

WHEREAS, there has been presented to the City of Neosho, Missouri, an application from Fleshman Family Farm, LLC, a Missouri Limited Liability Company, to rezone property located at 722 South College, Neosho, Missouri, from District “R-1” First Dwelling House District to a District “R-2” Second Dwelling House District for property legally described as:

*All of the East Half of Lot 3 in Block 1 in Withrow's Addition to the City of Neosho, Newton County, Missouri, according to the recorded plat thereof.*

WHEREAS, after having referred the subject matter of this request to the Planning and Zoning Commission for the City of Neosho, and after due publication in the Neosho Daily News as required by law and having held a public hearing thereon by the Planning and Zoning Commission, with a recommendation then reviewed and taken up at public hearing by the City Council, the application being approved.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That City of Neosho zoning District Map for the City of Neosho be amended for certain property within the limits of the City located at the 722 South College, Neosho, Missouri, as requested by the owner, Fleshman Family Farm, LLC, and the same to be amended and changed from a District “R-1” First Dwelling House District to a District “R-2” Second Dwelling House District for the property legally described as follows:

*All of the East Half of Lot 3 in Block 1 in Withrow's Addition to the City of Neosho, Newton County, Missouri, according to the recorded plat thereof.*

**Section 2.** That the City Clerk is hereby authorized and directed to file with the City the above referenced and described property within the City District Map for the amended district zone has herein approved.

**Section 3.** This this ordinance shall be in effect upon final passage.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of September, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney



## Planning and Zoning Department

City Hall 203 E. Main Neosho, MO 64850 Phone 451-8050

# PLANNING AND ZONING APPLICATION

### PROJECT TITLE & TYPE

- |                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Preliminary Plat / Site Plan | <input type="checkbox"/> Vacation of Right-of-Way |
| <input type="checkbox"/> Special Use Permit           | <input type="checkbox"/> Board of Adjustments     |
| <input checked="" type="checkbox"/> Rezoning          | <input type="checkbox"/> Vacation of Easement     |
| <input type="checkbox"/> Final Plat / Site Plan       | <input type="checkbox"/> Other _____              |

### MF INFORMATION

|                                                    |                                                 |
|----------------------------------------------------|-------------------------------------------------|
| APPLICANT                                          | PROJECT                                         |
| Name <u>Michael Freshman</u>                       | Project Location <u>722 S College</u>           |
| Address <u>9654 Lawrence 2170 Monett, MO 65708</u> | Existing Use <u>Single Family/Mother-in-law</u> |
| Phone <u>417-622-7531</u>                          | Proposed Use <u>Duplex</u>                      |
| Contact Person Name <u>Michael Freshman</u>        | Existing Zone <u>R1</u>                         |
| Contact Person Phone <u>417-622-7531</u>           | Proposed Zone <u>R2</u>                         |

### SIGNATURE OF OWNERS & DATE

The above information and the attached list of property owners and the area map are true and accurate to the best of my knowledge.

|                        |                |
|------------------------|----------------|
| <u>MF</u>              | <u>6-30-24</u> |
| Signature of Owner     | Date           |
| <u>Makana Freshman</u> | <u>6-30-24</u> |
| Signature of Co-Owner  | Date           |

#### Staff Use Only

Application Accepted...

Date \_\_\_\_\_

Time \_\_\_\_\_

By \_\_\_\_\_

- |                                                                 |
|-----------------------------------------------------------------|
| <input type="checkbox"/> Application Fee Received               |
| <input type="checkbox"/> Deed Attached                          |
| <input type="checkbox"/> Parcel Map Attached                    |
| <input type="checkbox"/> Property Owners Within 200 Ft Attached |
| <input type="checkbox"/> Publication Fee Received               |



# Neosho, MO



## Legend

### Neosho Streets

- <all other values>
- INTERSTATE
- U.S. HIGHWAY
- STATE HIGHWAY
- ALLEY
- CITY STREET
- NAMED COUNTY ROAD
- PLATTED/UNDEVELOPED
- UNNAMED
- VACATED STREET

1: 1,425



237.5 0 118.76 237.5 Feet

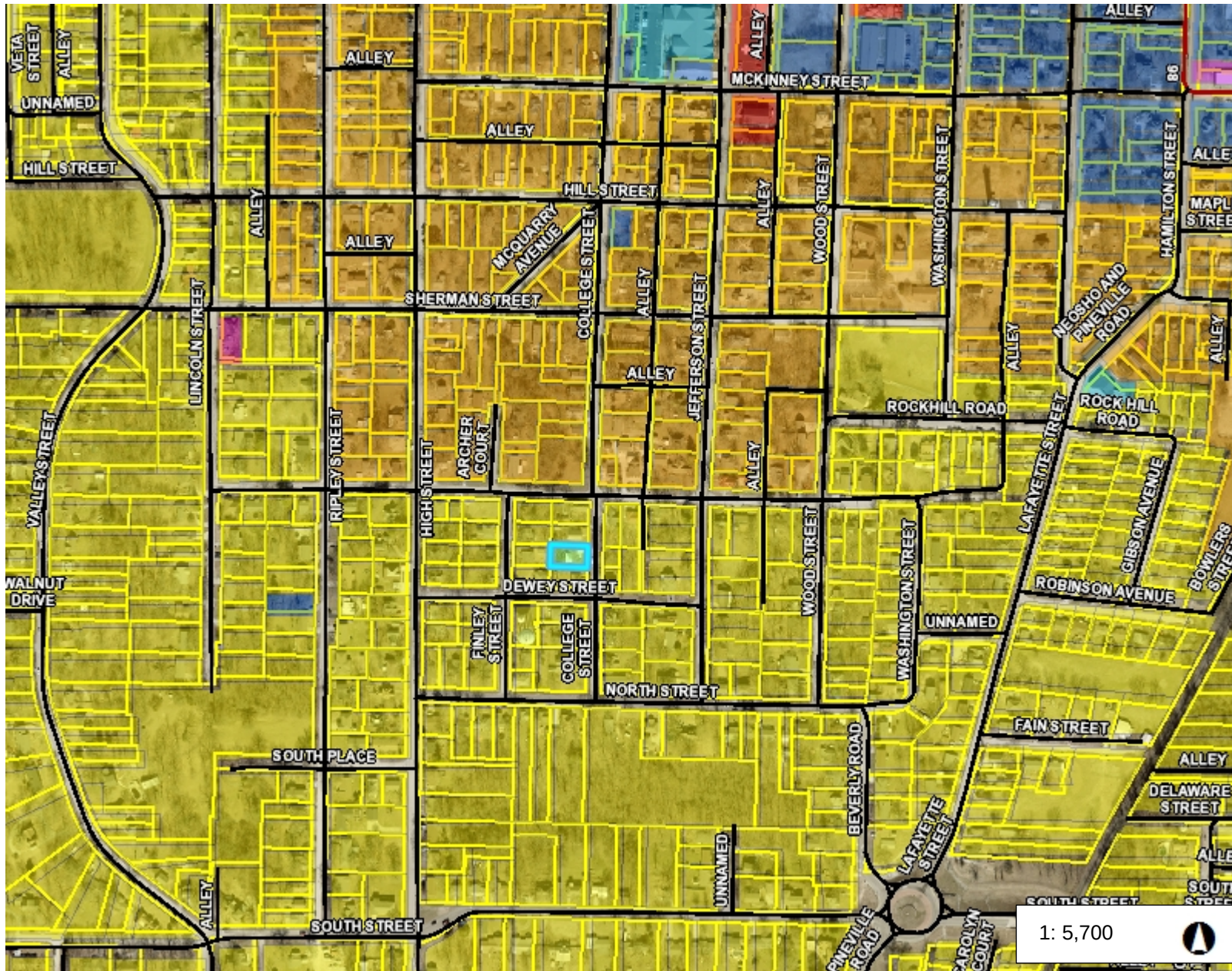
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## Notes

722 S. College St.



# Neosho, MO



## Legend

### Neosho Streets

- <all other values>
- INTERSTATE
- U.S. HIGHWAY
- STATE HIGHWAY
- ALLEY
- CITY STREET
- NAMED COUNTY ROAD
- PLATTED/UNDEVELOPED
- UNNAMED
- VACATED STREET

### Zoning

- AG
- R-1
- R-2
- R-3
- C-0
- C-1
- C-2
- C-3
- M-1
- M-2
- RD-1

Parcel

## Notes

722 S. College St. zoning map

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# Neosho, MO



## Legend

### Neosho Streets

- <all other values>
- INTERSTATE
- U.S. HIGHWAY
- STATE HIGHWAY
- ALLEY
- CITY STREET
- NAMED COUNTY ROAD
- PLATTED/UNDEVELOPED
- UNNAMED
- VACATED STREET

### Zoning

- AG
- R-1
- R-2
- R-3
- C-0
- C-1
- C-2
- C-3
- M-1
- M-2
- RD-1

Parcel

1: 1,425



237.5 0 118.76 237.5 Feet

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

## Notes

722 S. College St. zoning map (Near)

## Notice of Public Hearing

Planning and Zoning Public Hearing  
August 13, 2024 @ 6:00pm  
City Council Chambers  
203 East Main Street

City Council Public Hearing  
August 20, 2024 @ 7:00pm  
City Council Chambers  
203 East Main Street

Regarding the rezoning of property in the area of 722 South College Street as R-2,  
Second Dwelling District described as:

All of the East Half of Lot 3 in Block 1 in Withrow's Addition to the City of Neosho,  
Newton County, Missouri, according to the recorded plat thereof.

Inquiries please contact:

Richard Leavens  
City of Neosho  
Development Services Director  
(417) 451-8050

**AN ORDINANCE of the City of Neosho to amend the zoning District Map for certain property within the limits of the City located at the 722 South College, Neosho, Missouri, as requested by the owner, Fleshman Family Farm, LLC, a Missouri Limited Liability Company, from a District “R-1” First Dwelling House District to a District “R-2” Second Dwelling House District.**

WHEREAS, there has been presented to the City of Neosho, Missouri, an application from Fleshman Family Farm, LLC, a Missouri Limited Liability Company, to rezone property located at 722 South College, Neosho, Missouri, from District “R-1” First Dwelling House District to a District “R-2” Second Dwelling House District for property legally described as:

*All of the East Half of Lot 3 in Block 1 in Withrow's Addition to the City of Neosho, Newton County, Missouri, according to the recorded plat thereof.*

WHEREAS, after having referred the subject matter of this request to the Planning and Zoning Commission for the City of Neosho, and after due publication in the Neosho Daily News as required by law and having held a public hearing thereon by the Planning and Zoning Commission, with a recommendation then reviewed and taken up at public hearing by the City Council, the application being approved.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That City of Neosho zoning District Map for the City of Neosho be amended for certain property within the limits of the City located at the 722 South College, Neosho, Missouri, as requested by the owner, Fleshman Family Farm, LLC, and the same to be amended and changed from a District “R-1” First Dwelling House District to a District “R-2” Second Dwelling House District for the property legally described as follows:

*All of the East Half of Lot 3 in Block 1 in Withrow's Addition to the City of Neosho, Newton County, Missouri, according to the recorded plat thereof.*

**Section 2.** That the City Clerk is hereby authorized and directed to file with the City the above referenced and described property within the City District Map for the amended district zone has herein approved.

**Section 3.** This this ordinance shall be in effect upon final passage.



PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of September, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney



## Planning and Zoning Department

City Hall 203 E. Main Neosho, MO 64850 Phone 451-8050

# PLANNING AND ZONING APPLICATION

### PROJECT TITLE & TYPE

- |                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Preliminary Plat / Site Plan | <input type="checkbox"/> Vacation of Right-of-Way |
| <input type="checkbox"/> Special Use Permit           | <input type="checkbox"/> Board of Adjustments     |
| <input checked="" type="checkbox"/> Rezoning          | <input type="checkbox"/> Vacation of Easement     |
| <input type="checkbox"/> Final Plat / Site Plan       | <input type="checkbox"/> Other _____              |

### MF INFORMATION

|                                                    |                                                 |
|----------------------------------------------------|-------------------------------------------------|
| APPLICANT                                          | PROJECT                                         |
| Name <u>Michael Freshman</u>                       | Project Location <u>722 S College</u>           |
| Address <u>9654 Lawrence 2170 Monett, MO 65708</u> | Existing Use <u>Single Family/Mother-in-law</u> |
| Phone <u>417-622-7531</u>                          | Proposed Use <u>Duplex</u>                      |
| Contact Person Name <u>Michael Freshman</u>        | Existing Zone <u>R1</u>                         |
| Contact Person Phone <u>417-622-7531</u>           | Proposed Zone <u>R2</u>                         |

### SIGNATURE OF OWNERS & DATE

The above information and the attached list of property owners and the area map are true and accurate to the best of my knowledge.

|                         |                |
|-------------------------|----------------|
| <u>MF</u>               | <u>6-30-24</u> |
| Signature of Owner      | Date           |
| <u>Makenna Freshman</u> | <u>6-30-24</u> |
| Signature of Co-Owner   | Date           |

#### Staff Use Only

Application Accepted...

Date \_\_\_\_\_

Time \_\_\_\_\_

By \_\_\_\_\_

- |                                                                 |
|-----------------------------------------------------------------|
| <input type="checkbox"/> Application Fee Received               |
| <input type="checkbox"/> Deed Attached                          |
| <input type="checkbox"/> Parcel Map Attached                    |
| <input type="checkbox"/> Property Owners Within 200 Ft Attached |
| <input type="checkbox"/> Publication Fee Received               |



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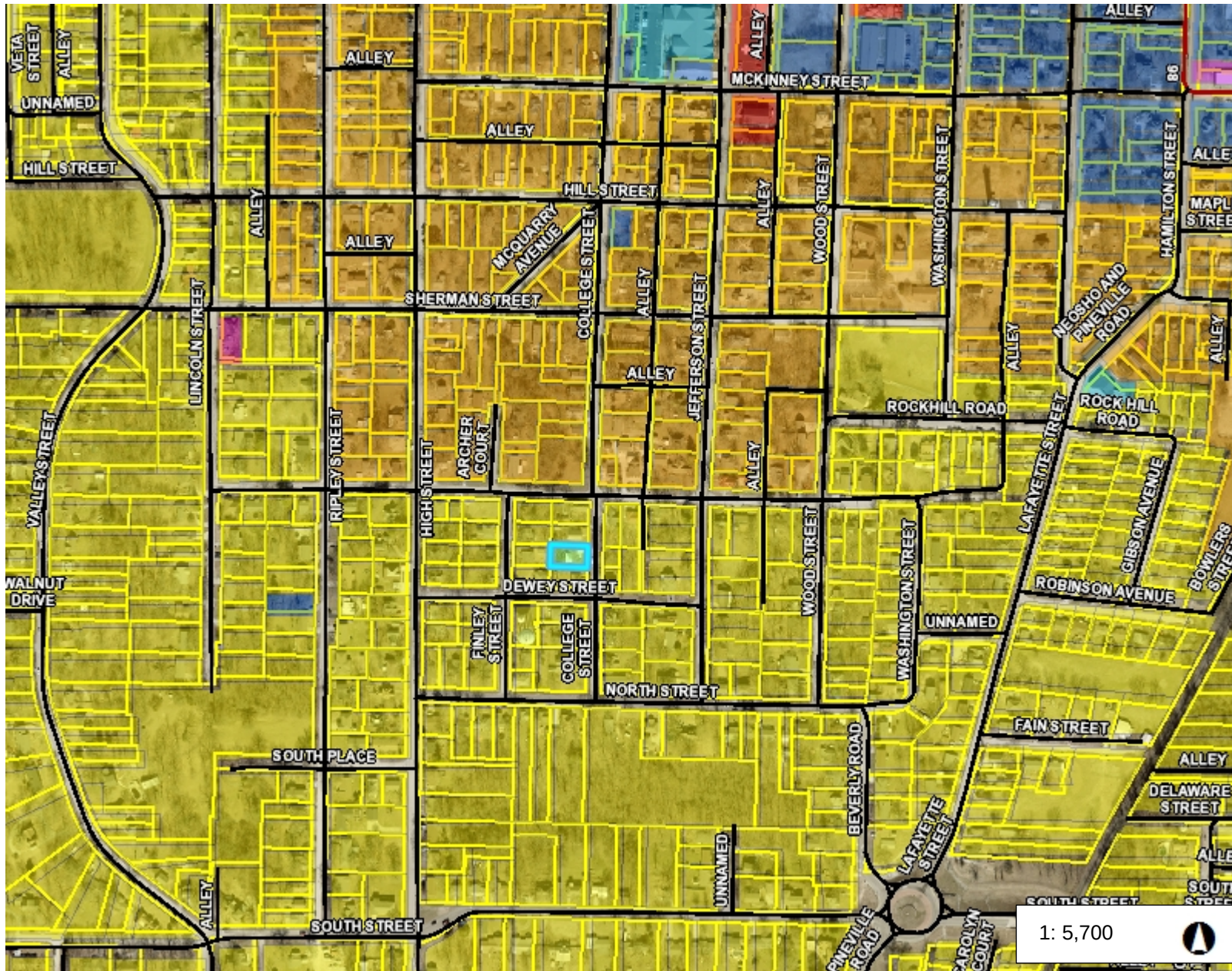
## Notes

722 S. College St.

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Parcel

## Notes

722 S. College St. zoning map

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Inquiries please contact:

Richard Leavens  
City of Neosho  
Development Services Director  
(417) 451-8050

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Bill No. 2024-74: Change Order#2 to Agreement with Jeff Asbell for Stratford and Freeman Stormwater Project

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**ORIGINATING DEPARTMENT:** City Clerk

**ATTACHMENT:**

1. Bill No. 2024-74 Ch Ord 2 - K with Jeff Asbell Cost Overrun\_Stormwater Impr. Stratford-Freeman
  2. Change Order#2 Jeff Asbell Construction
- 

**PURPOSE:**

To approve a change order for Stratford and Freeman Road.

**BACKGROUND:**

This is a DED/CDBG grant which was awarded to the city of Neosho for drainage. The change order request is for additional work needed to the box culverts once the private lines were located. The depth of the lines caused modifications to the prefab box culverts. As it stands, the city's grant will cover this overage of costs. However, throughout the project, if additional modifications are needed, the city will then need to utilize drainage fund balance to cover the costs.

**RECOMMENDATION:**

Approve the change order as submitted and authorize the Mayor to execute it.

**AN ORDINANCE of the City of Neosho authorizing Change Order No. 2 for an Agreement for Construction Services with Jeff Asbell Excavating & Trucking, Inc., a Missouri Corporation for cost overrun in the amount of Fifteen Thousand Four Hundred Fifty-One and 26/100 Dollars (\$15,451.26) and authorizing the Mayor to execute the same by and on behalf of the City of Neosho; and containing an emergency provision.**

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

Section 1. That the City of Neosho and Jeff Asbell Excavating & Trucking, Inc., a Missouri Corporation entered an Agreement for Construction Services for the purpose of stormwater improvements in the area of Stratford Place and Freeman Road and that Change Order #2 for cost overrun in the amount of Fifteen Thousand Four Hundred Fifty-One and 26/100 Dollars (\$15,451.26), a true and accurate copy of said Agreement and Change Order #1 being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

Section 2. That the Mayor of the City of Neosho, Missouri, is hereby authorized and directed to execute said Agreement and Change Order #2 by and on behalf of the City of Neosho.

Section 3. That the City hereby declares that this Ordinance, being an Ordinance for stormwater improvements is related to the immediate preservation of the public peace, property, health, safety or morals, is considered an emergency within the meaning of Section 2.18(1) of the Home Rule Charter of the City of Neosho, Missouri, and, as such, this Ordinance shall become effective immediately upon its passage.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney





CHANGE ORDER NO. 2

**DRAFT**

August 16, 2024

Jeff Asbell Excavating & Trucking, Inc.  
Attn.: Mr. Zach Compton  
9400 State Hwy 171  
Carl Junction, MO 64834

Re: Stratford & Freeman Road Stormwater Improvements

Dear Mr. Compton:

The following changes are hereby incorporated into your contract with the City of Neosho for the referenced project.

1. Background: Sanitary sewer services that were originally believed to be below the new box culvert were uncovered during excavation. There are a total of 5 services that were encountered. The first 3 required modification of the box culvert. The remaining services were located sufficiently below the box. The City elected to upgrade all 5 services to either Ductile Iron or PVC within the limits of the new box culvert as a preemptive effort to avoid maintenance in the future. The following briefly describes the scope of work associated with each crossing.
  - a. First Crossing: New ductile iron pipe and coring of new box culvert.
  - b. Second Crossing: New ductile iron pipe and partial removal and replacement of culvert bottom slab.
  - c. Third Crossing: New ductile iron pipe and partial removal and replacement of culvert bottom slab.
  - d. Fourth and Fifth Crossing: New PVC pipe.

2. The cost breakdown is as follows:

| <u>Item No.</u> | <u>No. of Units Add/Subtract</u> | <u>Revised Quantity</u> | <u>Item Description</u> | <u>Unit Price</u> | <u>Total Addition/ Deletion- Dollars</u> |
|-----------------|----------------------------------|-------------------------|-------------------------|-------------------|------------------------------------------|
| *68             | 1 EA                             | 1 EA                    | First Crossing          | \$4,376.35        | \$4,376.35                               |
| *69             | 1 EA                             | 1 EA                    | Second Crossing         | \$4,376.35        | \$4,376.35                               |

|                              |      |      |                           |            |             |
|------------------------------|------|------|---------------------------|------------|-------------|
| *70                          | 1 EA | 1 EA | Third Crossing            | \$2,810.05 | \$2,810.05  |
| *71                          | 2 EA | 2 EA | Fourth and Fifth Crossing | \$1,944.28 | \$3,888.56  |
| Total Addition / Subtraction |      |      |                           |            | \$15,451.26 |

\*Denotes new contract item.

|                           |                |
|---------------------------|----------------|
| Original Contract Amount  | \$1,915,659.59 |
| Change Order No. 1 Amount | \$100,653.25   |
| Change Order No. 2 Amount | \$15,451.26    |

REVISED CONTRACT AMOUNT      \$2,031,764.10

This change order constitutes full and mutual accord and satisfaction for all time and all costs related to these changes. By acceptance of this change order, the Contractor agrees that the change order represents an equitable adjustment to the contract, and further agrees to waive all rights to file a claim arising out of a result of these changes.

APPROVED BY THE OWNER  
CITY OF NEOSHO

APPROVED BY THE ENGINEER  
ALLGEIER, MARTIN & ASSOCIATES, INC.

By: \_\_\_\_\_  
Richard Davidson, Mayor

By: \_\_\_\_\_  
Michael Atkinson, P.E., Vice President

Date: \_\_\_\_\_

Date: \_\_\_\_\_

APPROVED BY THE CONTRACTOR  
JEFF ASBELL EXCAVATING & PAVING INC.

By: \_\_\_\_\_  
Zach Compton, Project Manager

Date: \_\_\_\_\_



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**REQUESTED COUNCIL MEETING DATE:** August 20, 2024

**ITEM:** Bill No. 2024-75: Liberty Easements

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**ORIGINATING DEPARTMENT:** City Clerk

**ATTACHMENT:**

1. Bill No. 2024-75 Easement for Empire Dist S05-T24-R32
  2. Empire Electric Easement Request
- 

**PURPOSE:**

To grant Liberty easement rights at the intersection of 59 & Industrial Drive.

**BACKGROUND:**

Liberty utilities are relocating a telephone pole at this intersection which is needed for intersection improvements by the City of Neosho. This moves the pole further to the south, allowing the opportunity for a right turn lane onto 59 highways.

**RECOMMENDATION:**

Approve the ordinance as presented and authorize the Mayor to execute it.

**AN ORDINANCE of the City of Neosho, Missouri, authorizing to grant an easement to The Empire District Electric Company, a Missouri private utility company, for the purpose of constructing and maintaining improvements for electric service on certain property located in Section 05, Township 24, Range 32, Newton County, Missouri; and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.**

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That the easement by and between the City of Neosho, Missouri, and The Empire District Electric Company, a Missouri private utility company, for the purpose of constructing and maintaining improvements for electric service on certain property located in Section 05, Township 24, Range 32, Newton County, Missouri, a true and accurate copy of said easement being attached hereto and incorporated as Exhibit “A”, be and the same is hereby approved.

**Section 2.** That the Mayor of the City of Neosho, Missouri is hereby authorized and directed to execute said easement by and on behalf of the City of Neosho.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

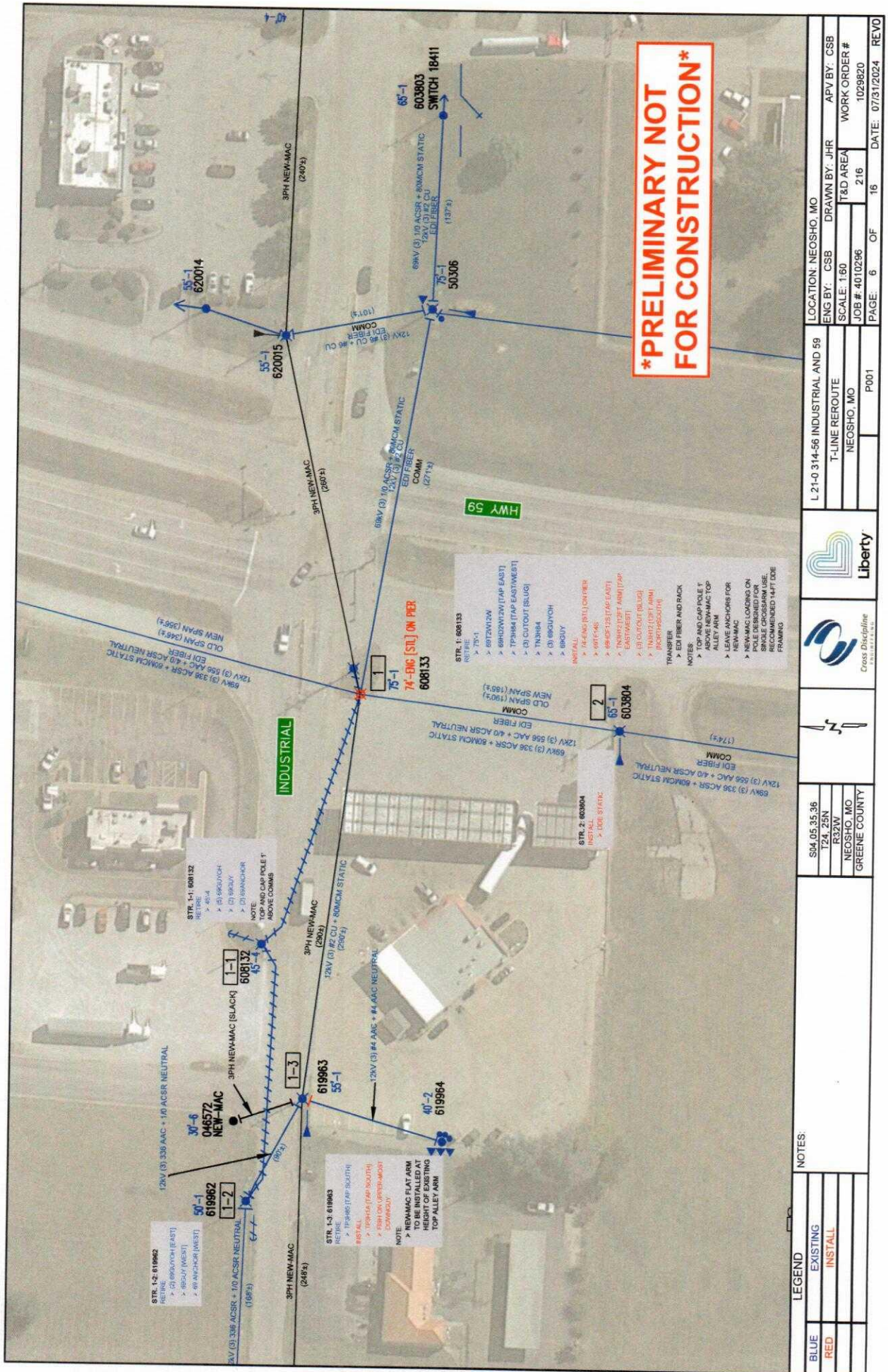
\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney







## EASEMENT

Company File Number: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, **City of Neosho**, hereinafter **Grantor(s)** hereby grant, bargain and sell unto **The Empire District Electric Company, Grantee**, hereinafter referred to as the Company, its successors, assigns, lessees, licensees and agents, a permanent easement and right-of-way to construct, repair, replace, inspect, relocate, modify, operate and maintain lines for the transmission and distribution of electrical energy and communications, including but not limited to fiber optic communications, telecommunications, data storage and retrieval, and other means of communications, including the necessary poles, crossarms, wires, guy wires, anchors, markers, aerial cables, underground cables, conduits, vaults, equipment foundations, pad mount transformers, fiber optic lines, communications systems, and all appurtenances thereto as may in the opinion of the Company be required from time to time, on, over, under or across the land located within the easement described on Exhibit A, and as shown on Exhibit B, "Easement area" as attached hereto located in **Newton** County in the State of **Missouri**.

That part of the Grantor's Property lying within 25 feet on both sides of the centerline of the location where the lines are initially installed and constructed, and within 15 feet in all directions of anchors, guy wires, and other facilities as initially built. The location of this easement shall be fixed to the degree occupied by the initial structure(s) upon completion of such structure(s) ("the easement").

The Company assumes the responsibility for the proper installation of the Company's lines and agrees to save the undersigned harmless from any and all damage caused to the undersigned's property due to the negligence of the Company, its agents and employees.

The Company is granted the right to use the easement for its own internal uses and commercial purposes. The Company is further granted the right and permission at any time to: (1) clear, remove and keep the above described easement cleared of trees, limbs, roots, signs, buildings, structures, and other obstructions which in the opinion of the Company might damage, endanger, or interfere with the operation, maintenance, or safety of the lines; and (2) the right of

ingress and egress across Grantor(s) Property to access the easement from nearby public streets; and (3) the right to use any existing means and technologies, and any new means or technologies that may be developed in the future, to accomplish the purposes of this easement.

The Company agrees that the undersigned shall otherwise have full and free use of the easement for farming, grazing and other purposes, subject to the rights herein granted to the Company; provided that no operation or construction shall be performed or permitted by the undersigned on the easement herein granted which might in the opinion of the Company damage, endanger or interfere with the operation, maintenance or safety of the lines or systems.

The undersigned Grantor(s), for themselves, their heirs, successors and assigns, warrant that they are the owners of the land herein conveyed and have the right to make this conveyance and receive the payment thereof; and covenant that The Empire District Electric Company, its successors and assigns, may quietly enjoy the premises for the uses herein stated; that they waive their right to request vacation of this easement; and that they will not create or permit any obstruction which may endanger or interfere with the construction, operation, and maintenance of the lines or systems.

***Grantor(s)***

***City of Neosho***

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

Accepted: **THE EMPIRE DISTRICT ELECTRIC COMPANY**, Grantee

Company Name/Agent: Liberty/Nathan Thomas

Owner Name/Address: City of Neosho/203 E Main St. Neosho, MO. 64850

Section 05 Township 24 Range 32 County Newton State MO

Area 216 Proj ID 4010296 Work Order 1029820 Check No       

Job Name/Location: 21-0/ Neosho, MO

Affected Property Coordinates (Decimal Degrees) Lat: 36.83637214 Lon: 94.39414608

By: \_\_\_\_\_ Approved: \_\_\_\_\_  
Alicia Blagg, Manager, Land Administration Tim Wilson, Vice President

---

State of Missouri) SS **NOTARY CERTIFICATE** (affix notary seal in space below)

County of Newton)

On this \_\_\_\_\_ day of \_\_\_\_\_, 2024, before me

Personally appeared \_\_\_\_\_

\_\_\_\_\_

to me known to be the person(s) described in and who executed the foregoing instrument, and acknowledged that he/she executed the same as his/her free act and deed.

WITNESS MY HAND AND OFFICIAL SEAL

\_\_\_\_\_ My Commission Expires: \_\_\_\_\_

Notary Public Printed Name: \_\_\_\_\_

---

State of \_\_\_\_\_) SS **NOTARY CERTIFICATE** (affix notary seal in space below)

County of \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me

Personally appeared \_\_\_\_\_

\_\_\_\_\_

to me known to be the person(s) described in and who executed the foregoing instrument, and acknowledged that he/she executed the same as his/her free act and deed.

WITNESS MY HAND AND OFFICIAL SEAL

\_\_\_\_\_ My Commission Expires: \_\_\_\_\_

Notary Public Printed Name: \_\_\_\_\_



## EXHIBIT A

### DESCRIPTION OF GRANTOR(S) PROPERTY:

All that part grantor's land now known as existing Route 71 in the Southeast  $\frac{1}{4}$  Southeast  $\frac{1}{4}$  of Section 35 and the Southwest  $\frac{1}{4}$  Southwest  $\frac{1}{4}$  of Section 36, all in Township 25 North, Range 32 West, and Section 4, 5, the West  $\frac{1}{4}$  of of Section 9, the East  $\frac{1}{4}$  of of Section 8, the West  $\frac{1}{4}$  of Section 16, the East  $\frac{1}{4}$  of Section 17, the West  $\frac{1}{4}$  of the Northwest  $\frac{1}{4}$  and the Northwest  $\frac{1}{4}$  Southwest  $\frac{1}{4}$  of Section 21, and the East  $\frac{1}{4}$  of the Northeast  $\frac{1}{4}$  and the Northeast  $\frac{1}{4}$  Southeast  $\frac{1}{4}$  of Section 20, all in Township 24 North, Range 32 West, Newton County, Missouri, lying within the limits as hereinafter designated and referenced from the following described center line of existing Route 71:

The centerline of Route 71 is located and described as follows: Commencing at Station 833+75 at or near the Northeast Corner of the Northeast  $\frac{1}{4}$  Northeast  $\frac{1}{4}$  of said Section 20; thence South  $5^{\circ} 23'$  East a distance of 3160.10 feet to Point of Curve Station 865+35.1; thence on a  $2^{\circ}$  curve to the right, with a Radius of 2864.9 feet, a distance of 659.2 feet to Point of Tangent and Equation Station 871+94.3 back equals Station 872+00 ahead, the point of beginning of center line description; thence traversing on said  $2^{\circ}$  curve to the left, a distance of 659.2 feet to Point of Tangent Station 865+35.1;

thence North  $5^{\circ} 23'$  West a distance of 15,191.40 feet to Point of Curve and Equation Station 713+43.7 back equals Station 550+45.3 ahead; thence on a  $2^{\circ}$  curve to the right, with a Radius of 2864.9 feet, a distance of 731.7 feet to Point of Tangent Station 543+13.6; thence North  $9^{\circ} 15'$  East a distance of 825.50 feet to Station 534+88.1.

Widths of right of way on the left or Easterly side are herein described as follows: A tract of land decreasing in width from 262.2 feet wide at Station 534+88.1 to 183.53 feet wide at Station 540+33.92, then decreasing in width from 183.53 feet wide at Station 540+33.92 to 183.43 feet wide at Station 543+38.22, then decreasing in width from 183.43 feet wide at Station 543+38.22 to 179 feet wide at Station 546+42.5, then decreasing in width from 204 feet wide at Station 546+42.5 to 199 feet wide at Equation Station 550+45.3 back equals Station 713+43.7 ahead, then 199 feet wide from Equation Station 550+45.3 back equals Station 713+43.7 ahead to Station 860+31.6, then decreasing in width from 199 feet wide at Station 860+31.6 to 125 feet wide at Equation Station 871+94.3 back equals Station 872+00 ahead.

Widths of right of way on the right or Westerly side are herein described as follows: A tract of land 76 feet wide from Station 534+88.1 to Equation Station 550+45.3 back equals Station 713+43.7 ahead, then continuing a tract of land 76 feet wide from Station 713+43.7 to Station 727+78, then 32 feet wide from Station 727+78 to Station 735+50, then increasing in width from 32 feet wide at Station 737+50 to 101 feet wide at Station 736+30, then 101 feet wide from Station 736+30 to Station 738+00, then decreasing in width from 101 feet wide at Station 738+00 to 32 feet wide at Station 739+13, then increasing in width from 32 feet wide at Station 739+13 to 35 feet wide at Station 751+14, then 35 feet wide from Station 751+14 to Station 754+27, then 76 feet wide from Station 754+27 to Station 762+00, then 36 feet wide from Station 762+00 to Station 793+73, then decreasing in width from 36 feet wide at Station 793+73 to 34 feet wide at Station 806+25, then decreasing in width from 34 feet wide at Station 806+25 to 31 feet wide at Station 816+39, then 31 feet wide from Station 816+39 to Station 823+75, then increasing in width from 31 feet wide at Station 823+75 to 32 feet wide at Station 830+45, then 76 feet wide from Station 830+45 to Station 840+99, then increasing in width from 32 feet wide at Station 840+99 to 39 feet wide at Station 856+17, then 76 feet wide from Station 856+17 to Station 865+35.1, then decreasing in width from 76 feet wide at Station 865+35.1 to 75 feet wide at Equation Station 871+94.3 equals Station 872+00 ahead.

Grantee, for itself, its successors and assigns, by acceptance of this conveyance, covenants and agrees, and it is made a condition of this conveyance, that the property herein described shall not be used for the construction, erection or maintenance of billboards or advertising signs other than signs advertising activities conducted on the property or services and products therein provided. This shall be a covenant running with the land and is binding upon Grantee, its successors and assigns. Upon a breach of this covenant and after 10 day's written notice to Grantee or its assigns to remove said offending sign as described above, Grantor retains the right to enter the property herein conveyed and remove said sign at the sole expense and liability of Grantee or its successors and assigns.

The City of Neosho, Missouri, for itself, its personal representatives, successors in interest and assigns, as a part of the consideration hereof,

does hereby covenant and agree as a covenant running with the land that (1) no person on the grounds of race, color, sex or national origin shall be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over or under such land and the furnishing of services thereon, no person on the grounds of race, color, sex or national origin shall be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the City of Neosho, Missouri, shall use the premises in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Sub-Title A, Office of the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation--Effectuation of Title VI of the Civil Rights Act of 1965, and as said Regulations may be amended.

That in the event of breach of any of the above nondiscrimination covenants, the State of Missouri shall have the right to re-enter said land and facilities shall thereupon revert to and vest in and become the absolute property of the State of Missouri and its assigns

Grantee, by acceptance of this conveyance, covenants and agrees for itself, its successors and assigns, to permit Southwestern Bell Telephone Company, 2400 Range Line Road, Joplin, Missouri, 64801, New Mac Electric Coop. Inc., P. O. box 310, Neosho, Missouri, 64850, Empire District Electric Company, 602 Joplin Street, Joplin, Missouri, 64801 and Gas Service Company, 207 Pine Street, Monett, Missouri, 65708, to maintain easements for the purpose of maintaining, constructing, or reconstructing telephone, electric and gas lines and their appurtenances over, under, or across the land herein conveyed.

Said above described parcel contains a total of 99.15 acres.



EXHIBIT B  
Plan of Easement Area

The foundation of the pole is designed to be 8.5-FT in diameter.

Dimensions of the grass area, measured in feet, is shown below:



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**REQUESTED COUNCIL MEETING DATE:** August 20, 2024

**ITEM:** Bill No. 2024-73: Amending Code for UTVs on City Streets

---

**ORIGINATING DEPARTMENT:** Police Department

**ATTACHMENT:**

1. Bill No. 2024-73 Amending 300.020 Def. Motor Veh and UTV and 340.120 exceptions UTV Golf Carts
  2. Definition of Motor Vehicle in City Code
  3. 340.120 City Code
- 

**PURPOSE:**

Possible passage of an ordinance allowing UTV and Golf carts on city streets.

**BACKGROUND:**

At the request of several citizens, we developed an ordinance allowing a Utility Task Vehicle (UTV) and golf carts on city streets.

**RECOMMENDATION:**

Review and pass the ordinance developed by the City Attorney.

**AN ORDINANCE of the City of Neosho amending Chapter 300 General Provisions, Title III Traffic Code, of the Code of Ordinances by amending Section 300.020 Definitions to repeal and replace the definition of Motor Vehicle and add a new definition for Utility Vehicle and amending Chapter 340 Miscellaneous Driving Rules, Title III Traffic Code, of the Code of Ordinances by repealing and replacing Section 340.120 Off Road Vehicles, Allowed—Exceptions, Prohibited Uses for adding exceptions of Utility Vehicles and Golf Carts on City Streets.**

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That Chapter 300 General Provisions, Title III Traffic Code, Section 300.020 Definitions be amended by repealing and replacing the definition of Motor Vehicle and adding a new definition for Utility Vehicle and same be hereby adopted to read as follows:

**“Chapter 300 General Provisions”**

**“Section 300.020 Definitions”**

**“Motor Vehicle** - Any self-propelled vehicle not operated exclusively upon tracks, except farm tractors and motorized bicycles.”

**“Utility Vehicle** - Any motorized vehicle manufactured for off-road use which is not greater than two thousand pounds and not greater than 67 inches in width, with a steering wheel and non-straddle seat, commonly known as a UTV or side by side, not to include all terrain vehicle.”

(Each definition to be incorporated alphabetically into this Section).

**Section 2.** That Chapter 340 Miscellaneous Driving Rules, Title III Traffic Code be amended by repealing and replacing Section 340.120 Off Road Vehicles, Allowed—Exceptions, Prohibited Uses for adding exceptions of Utility Vehicles and Golf Carts on City Streets and same be hereby adopted to read as follows:

**“Chapter 340 Miscellaneous Driving Rules”**

**“Section 340.120 Utility Vehicles/Golf Carts and Off-road Vehicles, Allowed — Exceptions, Prohibited Uses.”**

**“A.** The operation of Utility Vehicles and Golf Carts shall be allowed on city streets subject to the same traffic regulations relating to motor vehicles.

**B.** No person shall operate an Off-road Vehicle, as defined in Section 304.001, RSMo., within any stream or river in this City, except that Off-road Vehicles may be operated within waterways which flow within the boundaries of land which an Off-road Vehicle operator owns, or for agricultural purposes within the boundaries of land which an off-road vehicle operator owns or has permission to be upon, or for the purpose of fording such stream or river of this State at such road crossings as are customary or part of the highway system. All Law Enforcement Officials or Peace Officers of this State and its political subdivisions shall enforce the provisions of this Subsection within the geographic area of their jurisdiction.

C. A person operating a UTV and/or Golf Cart on a City Street pursuant to an exception covered in this Section shall have a valid operator's or chauffeur's license, but shall not be required to have passed an examination for the operation of a motorcycle.

D. No person shall operate a UTV and/or Golf Cart:

1. At a speed in excess of 30 miles per hour;
2. In any careless way so as to endanger the person or property of another;
3. While under the influence of alcohol or any controlled substance;
4. In violation of any ordinance relating to the operation of a vehicle or Motor Vehicle; or
5. On any Missouri State Highway or Interstate.”

**Section 3.** All ordinances or parts of ordinances in conflict herewith are hereby repealed, but shall otherwise remain in full force and effect.

**Section 4.** This Ordinance shall be effective [REDACTED], 2024.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

## Title XIX MOTOR VEHICLES, WATERCRAFT AND AVIATION

## Chapter 304

&lt; &gt; • Effective - 28 Aug 2021, 2 histories ↓

304.001. Definitions for chapter 304 and chapter 307. — As used in this chapter and chapter 307, the following terms shall mean:

(9) "**Off-road vehicle**", any vehicle designed for or capable of cross-country travel on or immediately over land, water, ice, snow, marsh, swampland, or other natural terrain

<https://revisor.mo.gov/main/OneSection.aspx?section=304.001&bid=49751&hl=>

1/4

without benefit of a road or trail:

(a) Including, without limitation, the following:

- a. Jeeps;
- b. All-terrain vehicles;
- c. Dune buggies;
- d. Multiwheel drive or low-pressure tire vehicles;
- e. Vehicle using an endless belt, or tread or treads, or a combination of tread and low-pressure tires;
- f. Motorcycles, trail bikes, minibikes and related vehicles;
- g. Any other means of transportation deriving power from any source other than muscle or wind; and

(b) Excluding the following:

- a. Registered motorboats;
- b. Aircraft;
- c. Any military, fire or law enforcement vehicle;
- d. Farm-type tractors and other self-propelled equipment for harvesting and transporting farm or forest products;
- e. Any vehicle being used for farm purposes, earth moving, or construction while being used for such purposes on the work site;
- f. Self-propelled lawnmowers, or lawn or garden tractors, or golf carts, while being used exclusively for their designed purpose;
- g. Any vehicle being used for the purpose of transporting a handicapped person;
- h. Electric bicycles, as defined in section 301.010;

**Section 300.020. Definitions.<sup>1</sup> [Code 1962 §18-2; CC 1979 §16-2; Ord. No. 973 §1, 10-4-1977; Ord. No. 1095, 11-4-1980; Ord. No. 88-30 §1, 6-21-1988]**

Except as may otherwise be provided, whenever the following words and phrases are used in this Title, they shall have the meanings respectively ascribed to them in this Section:

**MOTOR VEHICLE** — Any self-propelled vehicle not operated exclusively upon tracks, except farm tractors, motorized bicycles, and golf carts. See also the definition of "GOLF CART" in this Section.[Ord. No. 305-2022, 5-17-2022; Ord. No. 338-2022, 9-20-2022]

creates or constitutes a traffic hazard.



**Section 340.120. All-Terrain Vehicles, Prohibited — Exceptions, Operation of Under an Exception — Prohibited Uses.**

- A. No person shall operate an all-terrain vehicle, as defined in Section 300.020, upon the streets and highways of this City, except as follows:
  - 1. All-terrain vehicles owned and operated by a governmental entity for official use;
  - 2. All-terrain vehicles operated for agricultural purposes or industrial on-premises purposes between the official sunrise and sunset on the day of operation;
  - 3. All-terrain vehicles whose operators carry a special permit issued by this City pursuant to Section 304.013, RSMo.
- B. No person shall operate an off-road vehicle, as defined in Section 304.001, RSMo., within any stream or river in this City, except that off-road vehicles may be operated within waterways which flow within the boundaries of land which an off-road vehicle operator owns, or for agricultural purposes within the boundaries of land which an off-road vehicle operator owns or has permission to be upon, or for the purpose of fording such stream or river of this State at such road crossings as are customary or part of the highway system. All Law Enforcement Officials or Peace Officers of this State and its political subdivisions shall enforce the provisions of this Subsection within the geographic area of their jurisdiction.
- C. A person operating an all-terrain vehicle on a street or highway pursuant to an exception covered in this Section shall have a valid operator's or chauffeur's license, but shall not be required to have passed an examination for the operation of a motorcycle, and the vehicle shall be operated at speeds of less than thirty (30) miles per hour. When operated on a street or highway, an all-terrain vehicle shall have a bicycle safety flag, which extends not less than seven (7) feet above the ground, attached to the rear of the vehicle. The bicycle safety flag shall be triangular in shape with an area of not less than thirty (30) square inches and shall be day-glow in color.
- D. No person shall operate an all-terrain vehicle:
  - 1. In any careless way so as to endanger the person or property of another;
  - 2. While under the influence of alcohol or any controlled substance; or
  - 3. Without a securely fastened safety helmet on the head of an individual who operates an all-terrain vehicle or who is being towed or otherwise propelled by an all-terrain vehicle, unless the individual is at least eighteen (18) years of age.
- E. No operator of an all-terrain vehicle shall carry a passenger, except for agricultural purposes.

AN ORDINANCE AMENDING SECTION 300.010 OF THE DEXTER CITY CODE DEFINITIONS BY ADDING GOLF CARTS AND UTILITY VEHICLES; AMENDING CHAPTER 340 BY ADDING SECTION 340.105 REGARDING UTILITY VEHICLES OPERATING ON THE STREETS OF DEXTER, EXCEPTIONS AND PROHIBITED USES; PROVIDING A PENALTY FOR VIOLATION; AND PROVIDING FOR AN EFFECTIVE DATE HEREOF.

BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF DEXTER, MISSOURI, AS FOLLOWS:

Section 1: The Board of Aldermen hereby amends §300.010 of the Dexter City Code, adding golf carts and utility vehicles to Definitions:

"300.010. DEFINITIONS.

**GOLF CART**

A motor vehicle that is designed and manufactured for operation on a golf course for sporting or recreational purposes and that is not capable of exceeding speeds of twenty (20) miles per hour.

**UTILITY VEHICLE - UTV**

Shall mean any motorized vehicle manufactured and used exclusively for off-highway use which is more than fifty (50) inches but not more than sixty-seven (67) inches in width, with an unladen dry weight of two thousand (2,000) pounds or less, traveling on four or six wheels, to be used primarily for landscaping, lawn care, or maintenance purposes.

Section 2: §340.105 of the Code of the City of Dexter is hereby enacted and shall hereafter read as follows:

- A. Utility vehicles (UTVs) may be operated upon the public streets of the City of Dexter, excluding One Mile Road, Grant Street (between Park Lane and Two Mile Rd.), Central Drive, Brown Pilot Lane and excluding State or Federal highways, other than for purposes of crossing the same, provided utility vehicles (UTVs) may only cross highways where the speed limit is 45 mph or less. Every person operating a utility vehicle shall be granted all the rights and shall be subject to all the duties applicable to the driver of any other motor vehicle except as to the special regulations in this Chapter.
- B. No person shall operate a utility vehicle (UTV), as defined in Section 300.010, upon the streets and highways of the City of Dexter, except as follows:



UTILITY VEHICLE APPLICATION  
REGISTRATION YEAR \_\_\_\_\_

NAME \_\_\_\_\_

RESIDENTIAL ADDRESS: \_\_\_\_\_ PHONE # \_\_\_\_\_

MAILING ADDRESS: (if different from above) \_\_\_\_\_

VEHICLE YEAR & MAKE \_\_\_\_\_ VEHICLE MODEL \_\_\_\_\_

VEHICLE COLOR \_\_\_\_\_ VEHICLE VIN # \_\_\_\_\_

REGISTRATION REQUIREMENTS

CERTIFICATE OF INSURANCE (ATTACHED) \_\_\_\_\_ POLICY # \_\_\_\_\_

INSURANCE COMPANY \_\_\_\_\_ POLICY EXP DATE \_\_\_\_\_

I, \_\_\_\_\_ HEREBY CERTIFY THE FOLLOWING ARE FULLY  
FUNCTIONAL AND OPERATIONAL:

BRAKES \_\_\_\_\_ PARKING BRAKE (IF EQUIPPED) \_\_\_\_\_ STEERING COLUMN \_\_\_\_\_

VEHICLE HAS NOT LESS THAN FOUR(4) WHEELS \_\_\_\_\_ HEADLAMPS \_\_\_\_\_ TAIL LAMPS \_\_\_\_\_

STOP LAMPS \_\_\_\_\_ REFLEX REFLECTORS: ONE RED ON EACH SIDE \_\_\_\_\_ ONE RED ON THE REAR \_\_\_\_\_

TURN SIGNALS \_\_\_\_\_ MIRRORS: EXTERIOR DRIVERS SIDE \_\_\_\_\_ EXTERIOR PASSENGER SIDE \_\_\_\_\_

INTERIOR \_\_\_\_\_ (IN LIEU OF EXTERIOR PASSENGER SIDE)

I UNDERSTAND UTV'S MAY NOT BE DRIVEN ON State or Federal highways, including but not limited to, Highway 25 and Business 60; further may not be driven on Brown Pilot Lane, Central Drive, One Mile Road, Grant Street between Park Lane and Two Mile Road. UTV's may only cross the above highways and streets where the speed limit is 45 mph or less. Further, I certify all information on this Application is true accurate and complete and any false or inaccurate information contained on this Application may result in revocation of the license in addition to any other penalties provided by law.

SIGNATURE OF APPLICANT \_\_\_\_\_ DATE \_\_\_\_\_

TAXES PAID \_\_\_\_\_ DL EXPIRATION DATE \_\_\_\_\_

DATE STICKER ISSUED \_\_\_\_\_ DATE PAID \_\_\_\_\_



## **ORDINANCE NO. 1109**

AN ORDINANCE AMENDING SECTION 24-214 (b) RELATING TO THE OPERATION OF UTILITY VEHICLES AND GOLF CARTS, AND ALL TERRAIN VEHICLES AND OTHER OFF-ROAD VEHICLES IN THE CITY OF POTOSI.

NOW THEREFORE, BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF POTOSI AS FOLLOWS:

**SECTION 1.** Section 24-214(b) is hereby repealed.

**SECTION 2.** A new Section 24-214(b) shall be enacted to read as follows:

Sec. 24-214(b) *Certain self propelled vehicles prohibited or restricted on City streets and locations:*

A. *Prohibited on City Streets, Exceptions.* No person shall operate a utility vehicle (UV), all-terrain vehicle (ATV) as defined in Section 300.010 RSMo., or any trail bike, motorcycles, golf carts or other self-propelled vehicles manufactured for off-road use and not eligible for registration, upon the alleys, streets or highways of this City, except as follows:

1. UVs and golf carts owned and operated by a governmental entity for official use;
2. UVs and golf carts operated for agricultural purposes or industrial on-premises purposes between official sunrise and sunset on the day of operation; or unless equipped with proper lightning;
3. UVs and golf carts whose operators carry a special permit issued by the City.
  - a. The City Clerk shall prepare an application form for the special permit and charge a fee of fifteen dollars (\$15.00) for each permit. This permit shall be renewed annually and the fee paid on or before the 31<sup>st</sup> of January for each succeeding calendar year. Permits are individual and may not be transferred. The sum of one dollar (\$1.00) shall be charged by the clerk for the issuance of a duplicate permit.
  - b. UV or golf cart operated by handicapped persons shall be for short distances, for occasional use and only on City roads and alleys, and not on any numbered state highways. Persons qualifying as handicapped will not be required to have passed an examination for the operation of a motorcycle and the City permit fee will be waived.
  - c. Persons applying for this permit must be of at least 21 years of age.
4. A "Utility Vehicle" is defined as any motorized vehicle manufactured and used exclusively for off highway use, which is 63 inches or less in width, with an unladen dry weight of one thousand eight hundred fifty pounds or less, traveling on four or six wheels, to be used primarily for landscaping, lawn care, or maintenance purposes, has a non-straddle seat and a steering wheel, and which is commonly referred to as a side by side.
5. A qualified golf cart is defined in Section 304.034 RSMo., as a motor vehicle that is designed and manufactured for operation on a golf course for sporting or recreational purposes and that is not capable of exceeding speeds of twenty miles per hour.

B. *Operation within streams or rivers and Parks not permitted - exceptions.*

No person shall operate any off-road vehicle within any stream or river in this City, except that off-road vehicles may be operated within waterways which flow entirely within the boundaries of real property owned or leased by off-road vehicle operator, or upon which the operator has written permission to be upon. No person shall operate any off-road vehicle within a City Park.

C. *Licenses, Insurance, Speed limit, and Flag and other Equipment Required.*

1. A person operating a UV or golf cart upon an alley, street or county highway pursuant to this Section shall be required to have on his/her person, both a City Permit and a valid operator's or chauffeur's driver's license, but shall not be required to have passed a motorcycle license examination.
2. Operators of all motor vehicles, including UVs and golf carts permitted under this Section, shall exhibit a valid insurance identification card displaying current liability insurance coverage for said vehicle, as required under Section 303.024 RSMo., upon demand of any police officer, while that officer is engaged in the performance of his or her duties.
3. A person operating a UV or golf cart upon an alley, street or county highway pursuant to this Section shall not operate such vehicle at a speed in excess of the posted speed limit or thirty (30) miles per hour, whichever is less.
4. When operated on an alley, street or county highway pursuant to this Section, all UVs and golf carts shall have a bicycle safety flag, which extends not less than seven (7) feet above the ground, attached to the rear of the vehicle and equilateral triangular emblem to be mounted on the rear of such vehicle at least two (2) feet above the roadway. The emblem shall be constructed of substantial material with a fluorescent yellow-orange finish and a reflective, red border at least one inch in width. Each side of the emblem shall measure at least ten (10) inches and be day-glow in color.
5. No person operating a UV upon an alley, street or county highway pursuant to this Section shall do so without a securely fastened safety helmet on the head of the individual operating said UV.
6. No person operating a UV or golf cart upon an alley, street or county highway pursuant to this Section shall do so without a lighted headlamp and taillight in operation at all times.
7. No person shall operate a UV or golf cart upon any alley street or county highway except between the hours of sunrise and sunset.
8. No person operating a UV or golf cart upon an alley, street or county highway pursuant to this Section without brakes in good working order and equipped with a functioning muffler and a United States Forest Service qualified spark arrester.
9. All traffic laws relating to the operation of other motor vehicles apply to the operators of UVs and golf carts as permitted by this ordinance.
10. Any passenger carried in any UV or golf cart must be in an appropriate bench or individual seat with a restraining device.

D. *Violations- separate offense - punishment.* Violation of this ordinance is a misdemeanor and a separate offense and is in addition to any other violation of ordinance relating to the operation of the vehicles, vehicle equipment, vehicle insurance and public safety, which can be filed separately. Violations will be punished upon conviction by a fine of not less than \$5.00 and not more than \$500.00 or by confinement in jail for not more than 90 days, or both fine and confinement, and in addition, forfeiture of the City permit and ineligibility for permit for one year.

E. *Limitation to Permit use.* The obtaining of the Permit described in subsection A (3) of this Section is a permit to operate a UV or golf cart only upon the alleys, streets and highways owned and maintained by the City of Potosi, Missouri, and does not apply and gives no immunity or defense to any such operation upon US highways, State or county roads or highways, or highways, streets, roads or alleys maintained by any other governmental entity than the City of Potosi.

**PASSED AND APPROVED ON FEBRUARY 1, 2016**



# City Of Potosi

Thomas R. Dudley, Mayor  
121 East High St.  
Potosi, Missouri 63664  
(573) 438-2767

Roger P. Coleman, City Clerk  
James Harvey, Alderman Ward I  
Mary Pat West, Alderman Ward I  
Elmer Akers, Alderman Ward II  
Wayne Malugen, Alderman Ward II

## UTV PERMIT

By order of the City of Potosi Board of Alderman, \_\_\_\_\_  
(name)  
living at \_\_\_\_\_, is granted this special permit to  
(address)  
operate a UTV:

Make: \_\_\_\_\_  
Model: \_\_\_\_\_  
Year: \_\_\_\_\_  
VIN Number: \_\_\_\_\_  
Insurance Company: \_\_\_\_\_

\*\*\*\*COPY OF LIABILITY INSURANCE NEEDS TO BE INCLUDED\*\*\*\*

I certify that I will follow the laws stated in Ordinance #1109 of the City of Potosi and that I have and will maintain, during the period of registration, Insurance responsibility with respect to each UTV that I own, permit, and operate in the City of Potosi city limits.

\_\_\_\_\_  
(signature of permittee)

\_\_\_\_\_  
(date)

-----  
By Order of the City of Potosi Board of Alderman

UTV Permit Price: \$15.00 per year (see ordinance for renewal information)



BILL No. \_\_\_\_\_

Ordinance No. 1<sup>st</sup> 2022-1

**An ORDINANCE allowing the use of off-highway vehicles, utility vehicles, low speed vehicles, and golf carts to be operated on specific streets to have easy access to business services and recreational facilities and events.**

WHEREAS, the use of off-highway vehicles, utility vehicles, low speed vehicles, and golf carts for agricultural and recreational use continues to grow, and;

WHEREAS, the general public that lives outside the City Limits of Rosebud have requested access to the commercial, business, and recreational establishments and facilities in Rosebud while driving these vehicles and;

WHEREAS, these types of vehicles will not constitute additional traffic or burden on the City resources.

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ROSEBUD, MISSOURI AS FOLLOWS:**

**1. Section One: Limited Access to Streets and Roads within Rosebud**

The use of off-highway and utility vehicles as defined in Section 300.010 RSMo of this title are allowed to be operated on the following streets under the listed conditions:

1. All streets and alleys maintained by the City of Rosebud which are open to the public for normal vehicle use.
2. County Road Old Motel in the Rosebud City limits.
3. State Highway T in the Rosebud City limits.

The use of golf carts as defined by Section 304.034 of this title and low speed vehicles are allowed to be operated on the following streets under the listed conditions:

1. All streets and alleys maintained by the City of Rosebud which are open to the public for normal vehicles use.
2. Prohibited Streets: Use of off-highway and utility vehicles shall be prohibited on US Highway 50. Use of golf carts and low speed vehicles are prohibited on US Highway 50 and State Highway T.

**Section Two: Operation of Off-Highway, Utility Vehicles, Low Speed Vehicles, and Golf Carts**

1. Operation of an Off-Highway, Utility vehicles, or Low Speed Golf Carts is allowed between the hours of 6:00 AM and 11:59 PM.



2. All drivers must have a valid drivers license, be at least eighteen (18) years of age, and shall maintain proof of financial responsibility in accordance with RSMO section 303.160 or maintain any other insurance policy providing equivalent liability coverage of the specified vehicle.
3. Comply with all State Laws, County Ordinances, or City Ordinances.
4. Drivers and occupants shall be properly secured by safety restraints when a vehicle comes with said devices from the factory. No driver or passenger may be seated anywhere that is not a designated seat. Children must be in an appropriate car seat.
5. All off-highway, utility vehicles, low speed vehicles, golf carts must display either a slow moving safety triangle or orange safety flag.

### **Section Three: Application and fee**

A fee of \$15.00 will be required and the permit will be issued on an annual basis. The permit label must be displayed on the vehicle, so it is readily visible.

Those who are found guilty of violating the provisions of this chapter may, at the discretion of the Chief of Police, have their permit revoked for one (1) calendar year.

Applications can be filed through the Police Department or City Clerk's Office.

An inspection will be conducted by the Police Department of any vehicle where a permit is being requested for its use. This shall include an inspection of the following:

1. Road Worthy Construction
2. Safety Triangle or Flag
3. Operational Breaking System
4. Operational Muffler System
5. Head Lamps/Tail Lamps

### **Section Four: Effective Date**

This Ordinance shall be effective on the first day of \_\_\_\_\_, 2022.

### **Section Five: Effect on other ordinances**

All other ordinances of the City of Rosebud, Missouri except as expressly modified herein shall remain in full force and effect.

READ TWO TIMES AND PASSED BY THE BOARD OF ALDERMEN OF THE CITY OF  
ROSEBUD, MISSOURI, THIS 13<sup>th</sup> DAY OF January, 2022.

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** FY25 Bulk Rock Salt

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**ORIGINATING DEPARTMENT:** Public Works Department

**ATTACHMENT:**

**1. 2025 Bulk Rock Salt bid documents and bids recieved**

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**PURPOSE:**

To seek the Council's approval of the Bulk Rock Salt bid.

**BACKGROUND:**

This is the annual bid for rock salt for 2024/2025 on an as-needed basis. This will be used on snow-covered streets by the Public Works Department in the upcoming winter season. On average, we have used 100–190 tons previously, depending on the weather.

We sent out 5 bids and received 6 back.

|                                |                            |
|--------------------------------|----------------------------|
| Hutchinson Salt Company, Inc.  | \$74.26 per ton delivered  |
| Kunshek Chat & Coal            | \$77.00 per ton delivered  |
| Williams Diversified Materials | \$78.00 per ton delivered  |
| Kansas Salt                    | \$83.00 per ton delivered  |
| Gunther Salt Company           | \$142.50 per ton delivered |
| Central Salt, LLC              | \$77.80 per ton delivered  |

**RECOMMENDATION:**

City Staff recommends approval for the Bid from Hutchinson Salt Company, Inc. \$74.26 per ton delivered





*City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

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August 14, 2024

RE: INVITATION TO BID

To Whom It May Concern:

Enclosed you will find an invitation to bid on services or equipment for the City of Neosho. The invitation to bid is self-explanatory.

**The bid packet is for 2025 Rock Salt Annual bid described as follows.**

The City of Neosho invites you to bid on the 2025 Rock Salt Annual bid.

If you have any questions, feel free to contact our office.

Thank you,

Nate Siler  
Public Works Director  
417-451-8071

## INSTRUCTIONS TO BIDDERS

The City of Neosho, Missouri will accept sealed bids until the bid opening at 9:30 AM, August 28th, 2024, at the office of the City of Neosho ATTN: City Clerk, 203 E Main St, Neosho, MO 64850. The bid will be for the following item(s):

**The bid packet is for:** The 2024 Rock Salt Annual Bid. Specifications and instructions are listed in the Rock Salt Annual Bid Specifications included in this document.

**The City of Neosho retains the right to refuse bids for the 2025 Rock Salt Annual Bid.**

Sealed bid envelopes are to be marked: **2025 Rock Salt Annual Bid**

*Questions concerning the specifications and bid procedure should be directed to Nate Siler, 200 Nelson Ave, Neosho, MO 64850. 417-451-8071.*

*\*Missouri Prevailing Wage Rate Applies*                      *No*

A copy of the Missouri Prevailing Wage Rate is attached      No  
\*\*\*HB 1729 Prevailing Wage

The City reserves the right to reject any or all bids and to accept the best bid.

Thank you,

Nate Siler  
Public Works Director  
Neosho, MO

## **Rock Salt Specifications**

This bid will be for the City of Neosho's fiscal year starting October 1, 2024, and ending at midnight on September 30, 2025.

The exact quantities of each item are not known and will be based on our best estimate. There shall be no penalties in price for failure to meet any specific quantity. Prices quoted must remain firm until September 30, 2025. Prices are to be figured with payment terms of NET 30 DAYS unless you offer better payment terms in your bid.

**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 8-16-24

COMPANY NAME: Hutchinson Salt Company, Inc

ADDRESS (1): 136 West 12<sup>th</sup> ADDRESS (2): \_\_\_\_\_

CITY: Baxter Springs STATE: Kansas ZIP CODE: 66713

PHONE NUMBER: 620-856-3332

CONTACT PERSON: Andy Bingham

EMAIL: andy.bingham@hutchsalt.com

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IS YOUR COMPANY A CORPORATION? YES ☒ NO ☐

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 34

AUTHORIZED SIGNATURES TO SIGN BIDS:

Andy Bingham  
Andy Bingham  
\_\_\_\_\_  
\_\_\_\_\_

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

2025 Rock Salt  
Annual Bid  
\_\_\_\_\_  
\_\_\_\_\_

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

Furnishing and Delivery of Bulk Rock Salt

Estimate 200 tons

Any other Charges NO

**Price(s) for unit(s) meeting enclosed specifications:**

\$ 74.26 ton

F.O.B. Neosho, MO

Projected Shipping Date: 2-3 days after order is placed

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Hutchinson Salt Company, Inc

**BY:** Andy Bingham, Andy Bingham

**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 08/23/2024

COMPANY NAME: Central Salt, LLC

ADDRESS (1): 1420 State Rd 14 ADDRESS (2): \_\_\_\_\_

CITY: Lyons STATE: KS ZIP CODE: 67554

PHONE NUMBER: 620-257-5626 Ext 3

CONTACT PERSON: Lori Young

EMAIL: lyoung@centralsalt.com

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

Central Salt

PO Box 874292

Kansas City, MO 64187-4292

IS YOUR COMPANY A CORPORATION? YES X LLC NO \_\_\_\_\_

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 27 Years

AUTHORIZED SIGNATURES TO SIGN BIDS: Lori Young

Stephanie Murphy

\_\_\_\_\_

\_\_\_\_\_

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

Road Salt - Bulk Deicing Salt

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

**Furnishing and Delivery of Bulk Rock Salt** \_\_\_\_\_

**Estimate 200 tons** \_\_\_\_\_

**Any other Charges** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Price(s) for unit(s) meeting enclosed specifications:** \$77.80 Per Ton

F.O.B. Neosho, MO

Projected Shipping Date: 5 - 7 working days after receipt of order.

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Central Salt, LLC

**BY:** Lori Young

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

Furnishing and Delivery of Bulk Rock Salt

Estimate 200 tons

Any other Charges NONE

PLEASE SEND US A COPY OF  
BID OPENING SUMMARY FOR SALT.

**Price(s) for unit(s) meeting enclosed specifications:**

\$ 77.<sup>00</sup> Per Ton Delivered

F.O.B. Neosho, MO

Projected Shipping Date: AS REQUESTED - IN 5 BUSINESS DAYS

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

COMPANY: KUNSHEK CHAT & COAL, INC.

BY: Robert H. Kunshek 8-16-24



**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 8-16-24

COMPANY NAME: KUNSHEK CHAT & COAL, INC.

ADDRESS (1): 308 MEMORIAL DR. ADDRESS (2): \_\_\_\_\_

CITY: PITTSBURG, STATE: KS. ZIP CODE: 66762

PHONE NUMBER: 620-231-7282

CONTACT PERSON: BOB KUNSHEK OR SCOTT KUNSHEK

EMAIL: STACY@KunshekTrucking.com

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

SAME AS ABOVE  
\_\_\_\_\_  
\_\_\_\_\_

IS YOUR COMPANY A CORPORATION? YES X NO \_\_\_\_\_

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 79 YEARS

AUTHORIZED SIGNATURES TO SIGN BIDS: ROBERT KUNSHEK

SCOTT KUNSHEK

STACY SULLIVAN  
\_\_\_\_\_

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

BULK ROAD SALT

RIVER SAND

DRAG SAND

ROCK  
\_\_\_\_\_

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

Furnishing and Delivery of Bulk Rock Salt

Estimate 200 tons

Any other Charges

There is a fuel surcharge, a flat fee, for each truckload delivered. This fuel surcharge is based upon the average price of fuel in the Midwest at the time of delivery. The fuel surcharge changes weekly.

The fuel surcharge for delivery to Neosho, MO from St. Louis, MO as of 8/13/2024 was \$135.00

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: \$142.50 per ton, deliver 1-3 days after receipt of an order.

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** GUNTHER SALT COMPANY

**BY:** John M. Gunther / John M. Gunther President

**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 08/13/2024

COMPANY NAME: GUNTHER SALT COMPANY

ADDRESS (1): 101 Buchanan Street ADDRESS (2): \_\_\_\_\_

CITY: St. Louis STATE: Missouri ZIP CODE: 63147

PHONE NUMBER: 314-241-7075 x 109

CONTACT PERSON: John M. Gunther/President

EMAIL: john.gunther@gunthersalt.com

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

Gunther Salt Company

P.O BOX 870823

Kansas City, MO 64187-0823

IS YOUR COMPANY A CORPORATION? YES ☒ NO ☐

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 122

AUTHORIZED SIGNATURES TO SIGN BIDS: John M. Gunther

John M. Gunther

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 8/13/24

COMPANY NAME: Kansas Salt

ADDRESS (1): po box 333 ADDRESS (2): \_\_\_\_\_

CITY: Louisburg STATE: KS ZIP CODE: 66053

PHONE NUMBER: 913-730-7258

CONTACT PERSON: Ryan

EMAIL: ryan@kansassalt.com

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

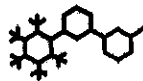
"Same"  
\_\_\_\_\_  
\_\_\_\_\_

IS YOUR COMPANY A CORPORATION? YES ☒ NO ☐

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 10+

AUTHORIZED SIGNATURES TO SIGN BIDS:



Kansas Salt, LLC  
PO Box 333  
Louisburg KS 66053

*Ryan Bann*  
\_\_\_\_\_  
\_\_\_\_\_

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

Road Salt  
\_\_\_\_\_  
\_\_\_\_\_

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

Furnishing and Delivery of Bulk Rock Salt

Estimate 200 tons

Any other Charges

\$83/ton delivered

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date:

\$83/ton - 5-7 days after order

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:**

Kansas Salt

**BY:**

Ryan Bauer



Kansas Salt, LLC  
PO Box 333  
Louisburg KS 66053

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

Furnishing and Delivery of Bulk Rock Salt

Estimate 200 tons

Any other Charges

**Price(s) for unit(s) meeting enclosed specifications:** \$78.00 per ton

F.O.B. Neosho, MO

Projected Shipping Date: within 5 days of receipt of written order

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Williams Diversified Materials, Inc.

**BY:**

Bill Burr

---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** FY25 Concrete

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**ORIGINATING DEPARTMENT:** Public Works Department

**ATTACHMENT:**

**1. 2025 Concrete bid documents and bids recieved**

---

**PURPOSE:**

To seek the Council's approval of the concrete bid.

**BACKGROUND:**

This is the annual bid for concrete for 2024/2025 on an as-needed basis.  
This will be used for repair of streets, curbing, sidewalks, and any other Public Works Department needs.

We sent out two bids and received 2 back.

Joplin Concrete

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| 6 bag mix,        | \$140.00 per yard                                      |
| 4000# mix         | \$140.00 per yard                                      |
| Flowable Fill     | \$136.00 per yard                                      |
| Calcium           | \$7.50 per yard                                        |
| Fiber             | \$7.25 per yard                                        |
| Black Dye         | \$135.00 per bag                                       |
| Light Load Charge | \$95.00 4 yd mim                                       |
| Fuel Charge       | Chart is attached. Ranging from \$17-\$57 depending on |

current fuel pricing.

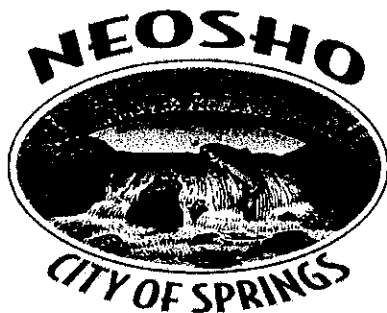
G&H Redi Mix

|                   |                   |
|-------------------|-------------------|
| 6 bag mix,        | \$130.00 per yard |
| 4000# mix         | \$130.00 per yard |
| Flowable Fill     | \$115.75 per yard |
| Calcium           | \$8.00 per yard   |
| Fiber             | \$5.50 per yard   |
| Black Dye         | \$87.00 per bag   |
| Light Load Charge | \$85.00 4 yd mim  |
| Fuel Charge       | \$20.00 per load  |
| No fly ash        | \$4.00 per yard   |

**RECOMMENDATION:**

City Staff recommends approval for the Bid from G&H Redi Mix.





*City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

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August 14, 2024

RE: INVITATION TO BID

To Whom It May Concern:

Enclosed you will find an invitation to bid on services or equipment for the City of Neosho. The invitation to bid is self-explanatory.

**The bid packet is for 2025 Concrete Annual bid described as follows.**

The City of Neosho invites you to bid on the 2025 Concrete Annual bid.

If you have any questions, feel free to contact our office.

Thank you,

Nate Siler  
Public Works Director  
417-451-8071

## **INSTRUCTIONS TO BIDDERS**

The City of Neosho, Missouri will accept sealed bids until the bid opening at 9:30 AM, August 28th, 2024 at the office of the City of Neosho ATTN: City Clerk, 203 E Main St, Neosho, MO 64850. The bid will be for the following item(s):

**The bid packet is for:** The 2025 Concrete Annual Bid. Specifications and instructions are listed in the Concrete Annual Bid Specifications included in this document.

**The City of Neosho retains the right to refuse bids for the 2025 Concrete Annual Bid.**

Sealed bid envelopes are to be marked: **2025 Concrete Annual Bid**

Questions concerning the specifications and bid procedure should be directed to Nate Siler, 200 Nelson Ave, Neosho, MO 64850. 417-451-8071.

\*Missouri Prevailing Wage Rate Applies                      No

A copy of the Missouri Prevailing Wage Rate is attached      No

\*\*\*HB 1729 Prevailing Wage

The City reserves the right to reject any or all bids and to accept the best bid.

Thank you,

Nate Siler  
Public Works Director  
Neosho, MO

## **Concrete Specifications**

This bid will be for the City of Neosho's fiscal year starting October 1, 2024 and ending at midnight on September 30, 2025.

The exact quantities of each item are not known and will be based on our best estimate. There shall be no penalties in price for failure to meet any specific quantity. Prices quoted must remain firm until September 30, 2025. Prices are to be figured with payment terms of NET 30 DAYS unless you offer better payment terms in your bid.

6 Bag Mix (100 yards)

4000# Street Mix (200 yards)

4000# Curb Mix (50 yards)

4000# Wall Mix (50 yards)

Flowable Fill (50 yards)

2% Calcium

Fiber

Black Dye

Light Load Charge

Minimum Yardage before

Fuel Charge

Additional Added Charges

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

6 Bag Mix (100 Yards) per yard \$140.00  
4000# Street Mix (200 yards) per yard \$140.00  
4000# Curb Mix (50 yards) per yard \$140.00  
4000# Wall Mix (50 yards) per yard \$140.00  
Flowable Fill (50 yards) per yard \$136.00  
2% Calcium per yard \$7.50  
Fiber per yard \$2.25 1 lb micro fiber  
Black Dye per yard \$135.00 25 lb bag John 920  
Light Load Charge per load \$95.00 1750 + 44 yards  
Minimum Yardage before light load charge per load of how much 44 yards  
Fuel Charge (when is this applied) per load SEE ATTACHED SHEET  
Any Additional charges per this agreement ~~CDR without~~ per load \$40.00  
No Other charges can be added per year if not listed on this form  
Add any additional charges on another sheet Standing time \$1.50 min after 60 min unloading  
Hot water \$8.50  
Chilled water \$5.50  
NO Fly Ash add \$3.50 per yard

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: 2/24/2025

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

COMPANY: John / Neosho Concrete

BY: [Signature] 2/24/2025



## JOPLIN CONCRETE

7425 East Newman Road Joplin Mo  
7110 West 20<sup>th</sup> Joplin Mo  
851 E Industrial Drive Neosho MO

### Joplin Concrete - Fuel Surcharge Table

Based from [https://www.eia.gov/dnav/pet/pet\\_pri\\_gnd\\_dcus\\_r20\\_w.htm](https://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r20_w.htm) (Midwest Fuel Index)

| Diesel Fuel Price - Per<br>Gallon | Fuel Surcharge<br>Per Load |
|-----------------------------------|----------------------------|
| \$2.76 to \$3.00                  | \$17.00                    |
| \$3.01 to \$3.25                  | \$19.00                    |
| \$3.26 to \$3.50                  | \$21.00                    |
| \$3.51 to \$3.75                  | \$23.00                    |
| \$3.76 to \$4.00                  | \$25.00                    |
| \$4.01 to \$4.25                  | \$27.00                    |
| \$4.26 to \$4.50                  | \$29.00                    |
| \$4.51 to \$4.75                  | \$31.00                    |
| \$4.76 to \$5.00                  | \$33.00                    |
| \$5.01 to \$5.25                  | \$35.00                    |
| \$5.26 to \$5.50                  | \$37.00                    |
| \$5.51 to \$5.75                  | \$39.00                    |
| \$5.76 to \$6.00                  | \$41.00                    |
| \$6.01 to \$6.25                  | \$43.00                    |
| \$6.26 to \$6.50                  | \$45.00                    |
| \$6.51 to \$6.75                  | \$47.00                    |
| \$6.76 to \$7.00                  | \$49.00                    |
| \$7.01 to \$7.25                  | \$51.00                    |
| \$7.26 to \$7.50                  | \$53.00                    |
| \$7.51 to \$7.75                  | \$55.00                    |
| \$7.76 to \$8.00                  | \$57.00                    |

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

|                                                                   |                      |                                   |
|-------------------------------------------------------------------|----------------------|-----------------------------------|
| 6 Bag Mix (100 Yards)                                             | per yard             | 130 <sup>00</sup>                 |
| 4000# Street Mix (200 yards)                                      | per yard             | 130 <sup>00</sup>                 |
| 4000# Curb Mix (50 yards)                                         | per yard             | 130 <sup>00</sup>                 |
| 4000# Wall Mix (50 yards)                                         | per yard             | 130 <sup>00</sup>                 |
| Flowable Fill (50 yards)                                          | per yard             | 115 <sup>25</sup>                 |
| 2% Calcium                                                        | per yard             | 8 <sup>00</sup>                   |
| Fiber                                                             | per yard             | 5 <sup>50</sup>                   |
| Black Dye                                                         | per yard             | 87 <sup>00</sup> per 25 pound Bag |
| Light Load Charge                                                 | per load             | 85 <sup>00</sup> Less than 4 yd   |
| Minimum Yardage before light load charge                          | per load of how much | Less than 4 yds                   |
| Fuel Charge (when is this applied)                                | per load             | 20 <sup>00</sup> per Load         |
| Any Additional charges per this agreement                         | Hot Water per load   | 5 <sup>00</sup> per yard          |
| No Other charges can be added per year if not listed on this form |                      |                                   |
| Add any additional charges on another sheet                       | No Fly Ash           | 4 <sup>00</sup> per yard          |

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: \_\_\_\_\_

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

COMPANY: G & H Redi-Mix

BY: Travis Parish

*T. M.*

---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** FY25 Bulk Rock

---

**ORIGINATING DEPARTMENT:** Public Works Department

**ATTACHMENT:**

**1. 2025 Bulk Rock bid documents and bids recieved**

---

**PURPOSE:**

To ask for the council's approval of the FY 2025 bulk rock bid.

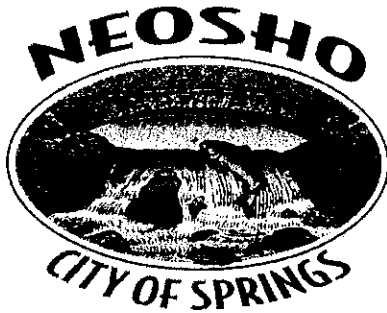
**BACKGROUND:**

This is the annual bid for bulk rock for FY 2025 on an as-needed basis. This will be used for street repairs and other needs in the Public Works Department. We sent out three bids and received two back.

|              |             |                 |
|--------------|-------------|-----------------|
| Anchor Stone | 1” Base     | \$8.00 per ton  |
|              | ¾” Clean    | \$12.25 per ton |
|              | Screening   | \$7.00 per ton  |
|              | ¼” Chips    | \$14.50 per ton |
|              | 6” Rip Rap  | \$12.50 per ton |
|              | 12” Rip Rap | \$18.00 per ton |
| Kemp Stone   | 1” Base     | \$7.75 per ton  |
|              | ¾” Clean    | \$12.50 per ton |
|              | Screening   | \$7.25 per ton  |
|              | ¼” Chips    | \$12.50 per ton |
|              | 6” Rip Rap  | \$14.50 per ton |
|              | 12” Rip Rap | \$16.50 per ton |

**RECOMMENDATION:**

City Staff recommends Council approve the bid from Kemp Stone due to price and location.



*City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

---

August 14, 2024

BID

RE: INVITATION TO BID

To Whom It May Concern:

Enclosed you will find an invitation to bid on services or equipment for the City of Neosho. The invitation to bid is self-explanatory.

**The bid packet is for 2025 Rock Annual bid described as follows.**

The City of Neosho invites you to bid on the 2025 Rock Annual bid.

If you have any questions, feel free to contact our office.

Thank you,

Nate Siler  
Public Works Director  
417-451-8071



## **INSTRUCTIONS TO BIDDERS**

BID

The City of Neosho, Missouri will accept sealed bids until the bid opening at 9:30 AM, August 28th, 2024 at the office of the City of Neosho ATTN: City Clerk, 203 E Main St, Neosho, MO 64850. The bid will be for the following item(s):

**The bid packet is for:** The 2025 Rock Annual Bid. Specifications and instructions are listed in the Rock Annual Bid Specifications included in this document.

**The City of Neosho retains the right to refuse bids for the 2025 Rock Annual Bid.**

Sealed bid envelopes are to be marked: **2025 Rock Annual Bid**

Questions concerning the specifications and bid procedure should be directed to Nate Siler, 200 Nelson Ave, Neosho, MO 64850. 417-451-8071.

\*Missouri Prevailing Wage Rate Applies                      No

A copy of the Missouri Prevailing Wage Rate is attached      No

\*\*\*HB 1729 Prevailing Wage

The City reserves the right to reject any or all bids and to accept the best bid.

Thank you,

Nate Siler  
Public Works Director  
Neosho, MO

## **Rock Specifications**

This bid will be for the City of Neosho's fiscal year starting October 1, 2024 and ending at midnight on September 30, 2025.

The exact quantities of each item are not known and will be based on our best estimate. There shall be no penalties in price for failure to meet any specific quantity. Prices quoted must remain firm until September 30, 2025. Prices are to be figured with payment terms of NET 30 DAYS unless you offer better payment terms in your bid.

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

1" BASE ROCK \$ 8<sup>00</sup>

3/4" CLEAN \$ 12<sup>25</sup>

LIME SCREENINGS \$ 7<sup>00</sup>

1/4" CHIPS \$ 14<sup>50</sup>

6" RIP RAP \$ 12<sup>50</sup>

12" RIP RAP \$ 18<sup>00</sup>

Additional charges

**Price(s) for unit(s) meeting enclosed specifications:**

Projected Shipping Date: 9/1/2024

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

COMPANY: ANCHOR STONE CO.

BY: TODD GRIESEMER

**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 8/19/24

COMPANY NAME: ANCHOR STONE CO.

ADDRESS: 7791 E. NEWMAN RD.

CITY: JOPLIN STATE: MO ZIP CODE: 64801

PHONE NUMBER: 417-623-1011 FAX NUMBER: 417-623-4481

CONTACT PERSON: TODD GRIESEMER

EMAIL: TODD@ANCHORSTONECO.COM

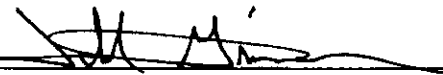
IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

4124 S. ROCKFORD AVE STE. 201  
TULSA, OK 74105

IS YOUR COMPANY A CORPORATION: YES X NO       

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING:                     

YEARS IN BUSINESS: 50+

AUTHORIZED SIGNATURES TO SIGN BIDS: 

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

AGGREGATES

\_\_\_\_\_

8/13/24

**BID FORM****Description:** (To be completed by bidding party)

|                 |   |           |           |   |
|-----------------|---|-----------|-----------|---|
| 1" BASE ROCK    | # | 17.75 TON | PICKED UP |   |
| 3/4" CLEAN      | # | 12.50 TON | "         | " |
| LIME SCREENINGS | # | 7.25 TON  | "         | " |
| 1/4" CHIPS      | # | 12.50 TON | "         | " |
| 6" RIP RAP      | # | 14.50 TON | "         | " |
| 12" RIP RAP     | # | 16.50 TON | "         | " |

Additional charges

**Price(s) for unit(s) meeting enclosed specifications:**Projected Shipping Date: AS NEEDEDAfter delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

COMPANY: KEMP STONE - NEOSHO 417-455-1333 SCALE HOUSEBY: JERRY ARNOLD - Jerry 918-825-3370 MAIN OFFICE

**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 8/13/24

COMPANY NAME: KEMP STONE - NEOSHO QUARRY Quarry Location  
1914B INGERSON LANE  
NEOSHO, MO 64850

ADDRESS: P.O. Box 949

CITY: Prion STATE: OK ZIP CODE: 74362

PHONE NUMBER: 918-825-3370 FAX NUMBER: 918-825-3388

CONTACT PERSON: STACY WOLFE

EMAIL: SALES@KEMPQUARRIES.COM

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

IS YOUR COMPANY A CORPORATION: YES ☒ NO ☐

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 57 YEARS

AUTHORIZED SIGNATURES TO SIGN BIDS: JERRY ARNOLD

JAMES KEMP

KYLE KEMP

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

AGGREGATES - ROCK + SAND

---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** FY25 Asphalt

---

**ORIGINATING DEPARTMENT:** Public Works Department

**ATTACHMENT:**

1. 2025 Asphalt bid documents and bids recieved

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**PURPOSE:**

To seek the council's approval of the asphalt bid

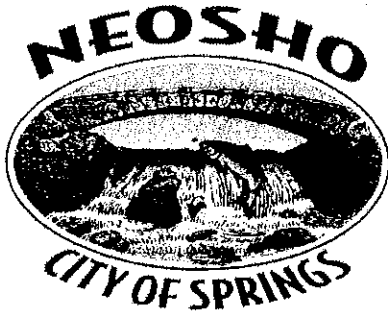
**BACKGROUND:**

This is the annual bid for Asphalt for 2024/2025 on an as-needed basis. This will be used for the repair of streets.

|                 |          |                 |
|-----------------|----------|-----------------|
| ESS Company     | Cold Mix | \$80.00 per ton |
| ESS Company     | Hot Mix  | \$66.00 per ton |
| Blevins Asphalt | Cold Mix | \$80.00 per ton |
| Blevins Asphalt | Hot Mix  | \$62.00 per ton |
| APAC            | Cold Mix | \$No Bid        |
| APAC            | Hot Mix  | \$71.00 per ton |

**RECOMMENDATION:**

The City Staff recommends approval for the bid from Blevins Asphalt due to its price and the mixture outperforming other companies' materials in our equipment.



*City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

---

August 14, 2024

RE: INVITATION TO BID

To Whom It May Concern:

Enclosed you will find an invitation to bid on services or equipment for the City of Neosho. The invitation to bid is self-explanatory.

**The bid packet is for 2025 Asphalt Annual bid described as follows.**

The City of Neosho invites you to bid on the 2025 Asphalt Annual bid.

If you have any questions, feel free to contact our office.

Thank you,

Nate Siler  
Public Works Director  
417-451-8071



## **INSTRUCTIONS TO BIDDERS**

The City of Neosho, Missouri will accept sealed bids until the bid opening at 9:30 AM, August 28th, 2024 at the office of the City of Neosho ATTN: City Clerk, 203 E Main St, Neosho, MO 64850. The bid will be for the following item(s):

**The bid packet is for:** The 2025 Asphalt Annual Bid. Specifications and instructions are listed in the Asphalt Annual Bid Specifications included in this document.

**The City of Neosho retains the right to refuse bids for the 2025 Asphalt Annual Bid.**

Sealed bid envelopes are to be marked: **2025 Asphalt Annual Bid**

Questions concerning the specifications and bid procedure should be directed to Nate Siler, 200 Nelson Ave, Neosho, MO 64850. 417-451-8071.

\*Missouri Prevailing Wage Rate Applies                      No

A copy of the Missouri Prevailing Wage Rate is attached                      No

\*\*\*HB 1729 Prevailing Wage

The City reserves the right to reject any or all bids and to accept the best bid.

Thank you,

Nate Siler  
Public Works Director  
Neosho, MO

## **Asphalt Specifications**

This bid will be for the City of Neosho's fiscal year starting October 1, 2024, and ending at midnight on September 30, 2025.

The exact quantities of each item are not known and will be based on our best estimate. There shall be no penalties in price for failure to meet any specific quantity. Prices quoted must remain firm until September 30, 2025. Prices are to be figured with payment terms of NET 30 DAYS unless you offer better payment terms in your bid.

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

HOT MIX BP 1 - 71<sup>00</sup> FOB Joplin Plant

COLD MIX - No Bid

Please list any other charges that may happen

**Price(s) for unit(s) meeting enclosed specifications:**

**Projected Shipping Date:** \_\_\_\_\_

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** APAC-Central Inc.

**BY:** Darrin Beeson

**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 8/27/2024

COMPANY NAME: APAC Central Inc.

ADDRESS: 4580 W. Calhoun

CITY: Springfield STATE: MO ZIP CODE: 65802

PHONE NUMBER: 417-968-6700 FAX NUMBER: 417-368-0481

CONTACT PERSON: Bryson Tragdon

EMAIL: bryson.tragdon@apac.com

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

\_\_\_\_\_  
\_\_\_\_\_

IS YOUR COMPANY A CORPORATION: YES X NO \_\_\_\_\_

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: \_\_\_\_\_

AUTHORIZED SIGNATURES TO SIGN BIDS: Darin Beeson

Doug Frunick

\_\_\_\_\_  
\_\_\_\_\_

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

Asphalt  
\_\_\_\_\_  
\_\_\_\_\_

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

HOT MIX BP 1

762.00

COLD MIX

780.00

Please list any other charges that may happen

**Price(s) for unit(s) meeting enclosed specifications:**

Projected Shipping Date: 10-1-24

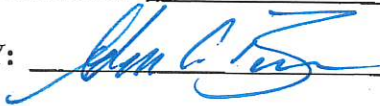
After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**Blevins Asphalt  
Construction Co., Inc**

**COMPANY:**

**BY:**



**CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION**

DATE: 8-28-24

COMPANY NAME: Blevins Asphalt  
P.O. Box 230  
Mount Vernon, MO 65712

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

PHONE NUMBER: 417-466-3758 FAX NUMBER: 417-466-7914

CONTACT PERSON: Adam Boswell

EMAIL: aboswell@blevinsasphalt.com

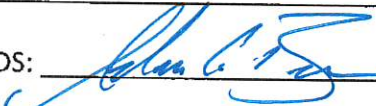
IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

\_\_\_\_\_  
\_\_\_\_\_

IS YOUR COMPANY A CORPORATION: YES X NO \_\_\_\_\_

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 75

AUTHORIZED SIGNATURES TO SIGN BIDS: 

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

Hot & Cold Mix Asphalt  
\_\_\_\_\_  
\_\_\_\_\_

CITY OF NEOSHO  
VENDOR AND BID LIST INFORMATION

DATE: 8/27/24  
COMPANY NAME: Emery Sapp & Sons  
ADDRESS: 17389 E. Newman Road  
CITY: Joplin STATE: MO ZIP CODE: 64801  
PHONE NUMBER: 417-623-1520 FAX NUMBER: \_\_\_\_\_  
CONTACT PERSON: Nathan Murphy  
EMAIL: nathan.murphy@emerysapp.com

IF CHECKS ARE TO BE SENT TO ANOTHER MAILING ADDRESS, PLEASE SPECIFY BELOW:

IS YOUR COMPANY A CORPORATION: YES X NO \_\_\_\_\_

IF NO, LIST SOCIAL SECURITY NUMBER FOR END OF YEAR REPORTING: \_\_\_\_\_

YEARS IN BUSINESS: 53

AUTHORIZED SIGNATURES TO SIGN BIDS: Nathan Murphy

TYPE OF GOODS AND SERVICES FOR WHICH COMPANY WOULD LIKE TO BID:

Asphalt

City of Neosho

**BID FORM**

**Description:** (To be completed by bidding party)

HOT MIX BP 1

\$66.<sup>00</sup> ton

COLD MIX

\$50.<sup>00</sup> ton

Please list any other charges that may happen

**Price(s) for unit(s) meeting enclosed specifications:**

**Projected Shipping Date:** \_\_\_\_\_

After delivery - payment made on Friday following delivery of invoice

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Emery Sapp + Sons

**BY:** John Sapp



**100% EMPLOYEE OWNED**

5350 East Hwy AA | Springfield, MO 65803 | ☎ 417.833.9915 | f 417.833.9981  
 7429 E. Newman Road | Joplin, MO 64801 | ☎ 417.623.1520 | f 417.623.1564

Date: 8/26/2024  
 Bid Date: 8/28/2024

**JOPLIN OFFICE**

7429 E. Newman Road  
 Joplin, MO 64801  
 Phone: (417) 623-1520

**SPRINGFIELD OFFICE**

5350 E State Hwy Aa  
 Springfield, MO 65803  
 Phone: (417) 833-9915

**PROPOSAL SUBMITTED TO:**

Name: City of Neosho  
 Address: 203 E. Main St.  
 City, State, Zip: Neosho, MO 64850

**JOB NAME / DESCRIPTION:**

Job Name: Public Works  
 Location: Neosho  
 Plant: Joplin

Attn: Nate Siler  
 Phone: (417) 451-8071  
 Email:

| Description  | Source | Price   | UM  | Estimated Tonnage |
|--------------|--------|---------|-----|-------------------|
| Hot Mix BP-1 | JAP    | \$66.00 | Ton | -                 |
| Cold Mix     | JAP    | \$80.00 | Ton | -                 |
|              |        |         | Ton |                   |
|              |        |         | Ton |                   |

Quoted prices do not include applicable taxes. The unit prices quoted above are valid for 10 calendar days from the proposal date.

**All products are subject to availability.**

Notes: **Quote valid thru - 2025**

**Terms and Conditions**

- Place orders at least 24-hours in advance
- Prices based on availability of material(s)
- Prices based on normal plant operating hours
- Provide job number and description at time of order
- No claims accepted due to delivery or inspection delays
- Tax exempt certificates must be furnished prior to delivery
- FOB customers must comply with all Government & Emery Sapp & Sons safety regulations
- Commercial grade mixes may contain RAP & RAS
- Payment per credit terms & conditions
- Quote subject to plant availability
- Confirm orders by noon the day before delivery/pick up
- Seller's liability not to exceed the purchase price of the material(s)
- Additional Emery Sapp & Sons Terms and Conditions /
- Customer is responsible for all testing costs by Emery Sapp & Sons or outside entities

The above is based on estimated quantities, unless a lump sum price is to be paid for the above material and is clearly so stated, it is understood and agreed that payment shall be made at the actual quantities of material purchased from Emery Sapp & Sons. If the above meets with your acceptance, please sign and return this proposal. Upon receipt of this signed proposal, it is understood this proposal including all of the conditions and terms set forth on the attached sheet will constitute an agreement between us. Pricing is good through **Above** unless otherwise stated on this proposal. Material purchased after this date is subject to renegotiation. This proposal expires ten days from the date hereof, but may be accepted at a later date at the sole option of Emery Sapp & Sons.

**Owner/Contractor****Emery Sapp & Sons**

Signature: \_\_\_\_\_  
 Type/Print: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Attest: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Type/Print: **Nathan Murphy**  
 Title: **Material Sales**

If signed by anyone other than the owner you must sign as "Agent for the Owner/Contractor"  
 If signed by an individual and married your spouse must sign also.

---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Celebrate Neosho Fireworks Display

---

**ORIGINATING DEPARTMENT:** Human Resources Department

**ATTACHMENT:**

**1. Celebrate Neosho Fireworks Bid**

---

**PURPOSE:**

The purpose of this bid is to select a company to provide a fireworks display for Celebrate Neosho in 2025.

**BACKGROUND:**

Staff set out six bid packets for the fireworks display at Celebrate Neosho and one bid packet was received back from Encore Pyrotechnics. Encore Pyrotechnics has put on the firework show for the City of Neosho since 2019. Encore Pyrotechnics bid the Celebrate Neosho show two ways, as follows:

\$19,950.00 (18-23 minute firework display-723 total shots)

\$24,950.00 (20-25 minute firework display-853 total shots)

Staff budgeted \$20,000.00 in the FY25 budget for Celebrate Neosho Fireworks.

**RECOMMENDATION:**

Staff recommends Encore Pyrotechnics. They offered two options for the fireworks display: 1st option: 18-23 min. at \$19,950.00 and 2nd Option: 20-25 min at \$24,950.00

## Encore Pyrotechnics

5200 State Hwy W  
Ozark, MO 65721 US  
encorepyrotechnics@gmail.com

## Estimate

### ADDRESS

Richard Leavens  
City of Neosho  
203 E. Main  
Neosho, MO 64850

ESTIMATE

1005

DATE

08/14/2024

| SERVICE           | DESCRIPTION       | QTY | RATE      | AMOUNT    |
|-------------------|-------------------|-----|-----------|-----------|
| Fireworks Display | 3" Shells - 324   | 1   | 19,950.00 | 19,950.00 |
|                   | 4" Shells - 252   |     |           |           |
|                   | 5" Shells - 108   |     |           |           |
|                   | 6" Shells - 72    |     |           |           |
|                   | 8" Shells - 3     |     |           |           |
|                   | Total Shots - 723 |     |           |           |

This is the bid for a 18-23 min Fireworks Display.

TOTAL

**\$19,950.00**

Accepted By

Accepted Date

## Encore Pyrotechnics

5200 State Hwy W  
Ozark, MO 65721 US  
encorepyrotechnics@gmail.com

## Estimate

### ADDRESS

Richard Leavens  
City of Neosho  
203 E. Main  
Neosho, MO 64850

ESTIMATE  
DATE

1006  
08/14/2024

| SERVICE           | DESCRIPTION                     | QTY | RATE      | AMOUNT    |
|-------------------|---------------------------------|-----|-----------|-----------|
| Fireworks Display | 3" Shells - 324                 | 1   | 24,950.00 | 24,950.00 |
|                   | 4" Shells - 288                 |     |           |           |
|                   | 5" Shells - 144                 |     |           |           |
|                   | 6" Shells - 90                  |     |           |           |
|                   | 8" Shells - 3                   |     |           |           |
|                   | 4" Lampare Specialty Shells - 4 |     |           |           |
|                   | Total Shots - 853               |     |           |           |

This is the bid for a 20-25 min Fireworks Display

TOTAL

**\$24,950.00**

Accepted By

Accepted Date

**BID FORM**

**Description: (To be completed by bidding party)**

Electronically Fired with Cobra Wireless Firing System

\$2 Million Aggregate/ \$1 Million Per Occurrence

Approx. 18-22 mins for display or 20-25 min

Show will have a Grand opener to start, Mortar trailer up on hill for higher Aerial Effects,

Approx 1 min grand finale to finish the show.

There will be Joey Taylor 15 years of pyrotechnics Marcus Engle with 10 years pyrotechnics

We have preformed your display for several years can provide references if needed

I Joey Taylor am the only full time employee of this company we do not do e-verify

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Pyrotechnics by Encore llc dba encore pyrotechnics

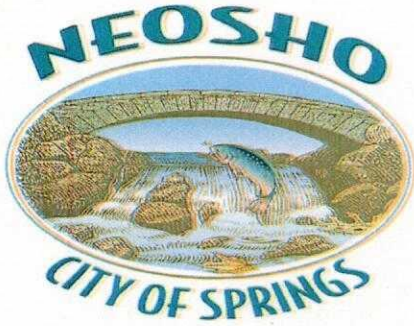
**ADDRESS:** 5200 State Hwy W Ozark, MO, 65721

**PHONE:** 918-813-9791

**EMAIL:** Encorepyrotechnics@gmail.com

**BY:** Joey Taylor





*City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

---

### INSTRUCTIONS TO BIDDERS

The City of Neosho, Missouri will accept sealed bids until **Thursday, August 29, 2024 at 10:00 a.m.** at the Receptionist Desk of City Hall, Attn: City Clerk, 203 East Main Street, Neosho, MO 64850. The bid will be for the following:

**Project: One-year contract for Celebrate Neosho Fireworks Displays**

**Please label the envelope: Fireworks Display Bid Opening, August 29, 2024 @ 10:00 a.m.**

Questions concerning the specifications and bid procedure should be directed to Krysti Muhic, Human Resources Director, at the follow address/phone: 417-451-8050, 203 E. Main St. Neosho, MO 64850.

All bids shall be F.O.B., Neosho, MO. All bids shall be exclusive of federal, state, and city taxes. Bids on this (these) unit(s) shall be made on forms furnished with these specifications. Additional information, specifications, deviations, and manufacturer's literature should be attached to bid forms. All bids should include the turn around time in getting started on this project.

\*W-9 Required

The City reserves the right to reject any or all bids and to accept the lowest or best bid. The City reserves the right to split bids, if in the best interest of the City.

Thank you,

David Kennedy  
City Manager



## **BID SPECIFICATIONS:**

**The bid packet is for the purchase of a one year contract for fireworks displays:**

### **Fireworks Display for Celebrate Neosho 2024, Saturday, June 28, 2025**

- **Location:** On top of the hill behind the Morse Park Ballfields in Neosho, MO. Please call City Hall at (417) 451-8050 to make an appointment to visit the location.
- **Length:** Approximately 23 minutes, no less than 20 minutes not to exceed 25 minutes.
- **Priorities:** Variety of shell bursts, length of show, avoidance of "black sky"
- **Bids:** Bids should include a count of each size and type of shell to be in the show, as well as a description, either brief or detailed at bidder's discretion, of the show. Feel free to submit multiple bid options. Bids should include all costs and additional expenses.
- **Fireworks:** The fireworks will be fired at least 1,000 feet from any spectator area. The show must be pre-loaded and electronically fired and must be all aerial effects. The display shall include a distinct opening and an even more distinct finale and be essentially void of "black sky". Shells used in the display shall range from 2- 12 inches in size and include low level fireworks. The vendor will submit the number and size of all shells to be used. Information should also include the type and design, duration of burn and percentage of overlap of all shells for the show. The vendor will also be responsible for acknowledging all county, state, and federal laws, regulations and ordinances that apply to fireworks displays. All permits and licenses required to produce displays must be obtained prior to the event.
  - If not previously provided to the City of Neosho, the vendor shall provide three references from public or private entities, with a contact person, address, and telephone number for who a similar service has been done within the past 18 months.
  - Prior to submitting a proposal, prospective vendors should try to visit the site to familiarize themselves with the conditions and limitations of the site. Failure to visit the site does not release the successful vendors from fulfilling all obligations necessary to fulfill the requirements for the request and subsequent reward.
  - The vendor shall provide a list of personnel to be involved with the display, including their names and a brief description of their experience in the field of pyrotechnics.
  - The vendor will be responsible for all transportation and delivery, loading, unloading, setting up, breaking down, etc., of all equipment used for the display
  - The vendor will be responsible for cleaning a 250 foot radius of the area in which it operates during the event, and this area must be thoroughly cleaned immediately upon the conclusion of the event. Furthermore, the vendor is responsible for filling any holes caused because of the display.
  - The vendor will be responsible for providing all safety equipment, tools, and materials involved in the execution of the fireworks display, including but not limited to mortar rocks, containers, sand, lumber, stakes, etc. Consequently, any damages or injuries incurred during the execution of the display will be 100 percent the liability of the vendor.
  - The vendor shall be responsible for providing approved, operational fire extinguishers of the appropriate classification, and they shall be accessible and in plain view from the time the fireworks arrive on site until all fireworks are completely removed from the site.
  - The vendor shall be responsible for the removal of all materials and shall complete a walk of the entire fallout of the fireworks site at the conclusion of the show to ensure that all exploded shells are removed and unexploded shells are properly handled.
  - **The vendor will need to provide the City of Neosho a Certificate of Liability Insurance, naming the City of Neosho as an additional insured, showing proof of liability limits as follows: at least \$2 million dollar aggregate/\$1 million dollar per occurrence.**

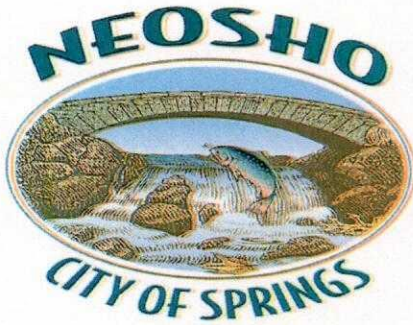
#### **Postponement Policy:**

In the event the display is postponed for any reason, including rain, lightning, draught, natural disaster or wind conditions, then the display will be rescheduled for the rain date specified in the contract unless a different date is mutually agreed upon with the vendor and the City of Neosho events coordinator. If, through no fault of the vendor, the decision to postpone is made by the city on the date of the display, the vendor shall have the right to bill the city for expenses incurred as a result of the postponement, but in no case shall those charges exceed 10 percent of the contract price. The City may request from the vendor an itemized statement and/or justification of postponement charges.

In determining the most advantageous bid, the City of Neosho reserves the right to consider quality, workmanship, service, and dependability of the vendor, independent of the price.

One original and one signed copy of the proposal must be received in a sealed envelope plainly marked: "Fireworks Display Bid Opening, August 4, 2024 @ 10 a.m.". Questions regarding this proposal shall be directed to Krysti Muhic, Human Resources Director, 417-451-8050 or email [kmuhic@neoshommo.gov](mailto:kmuhic@neoshommo.gov). The City of Neosho reserves the right to accept or reject any or all proposals and waive any irregularities received and to accept the proposal considered most advantageous to the City. By virtue of statutory authority, a preference will be given to materials, products, supplies, provisions, and all other articles produced, manufactured, made or grown within the State of Missouri.





## City of Neosho

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

Bid packets mailed to the following vendors for BIDS:

Encore Pyrotechnics  
5200 Hwy W  
Ozark, MO 64721  
[encorepyrotechnics@gmail.com](mailto:encorepyrotechnics@gmail.com)  
918-813-9791

Rainbow Fireworks  
76 Plum Ave  
Inman, KS 67546  
620-633-7714

AM Pyrotechnics  
\* 2429 E 535 Road  
Buffalo, MO 65662  
[sales@ampyro.com](mailto:sales@ampyro.com)

Premier Pyrotechnics  
25255 Hwy K  
Richland, MO 65556  
[premier@premierpyro.com](mailto:premier@premierpyro.com)

J & M Display Fireworks  
955 State Road Y  
Dittmer, MO 63023



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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Golf Pro Shop Renovations

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**ORIGINATING DEPARTMENT:** City Manager

**ATTACHMENT:**

1. Golf Course Pro Shop Remodel

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**PURPOSE:**

Review bids for pro shop upgrades.

**BACKGROUND:**

This is to upgrade the kitchen and sitting areas to allow Maxim be in compliance with Department of Health regulations.

**RECOMMENDATION:**

**BID FORM**

**Description:** (To be completed by bidding party)

Base Bid: Golf Course Club House Remodel --- \$47,205.00 (Includes Bonds)

Voluntary Alternate: New Exterior Aluminum Storefront Entry at Sales Counter --- \$4,765.00

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: TBD

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Marion Company, LLC

**ADDRESS:** 12451 Highway 59 | Neosho, Missouri 64850

**PHONE:** (417) 451 - 5743

**EMAIL:** tyler.marion@marionllc.net

**BY:** 



SWMO Electric, LLC  
3199 Howard Bush Drive, Neosho, Missouri  
64850-9108 United States  
(417) 456-2064

Estimate 6701483  
Estimate Date 8/26/2024

**Billing Address**  
City of Neosho  
203 East Main Street  
Neosho, MO 64850 USA

**Job Address**  
Neosho Golf Course  
1850 Clubhouse Road  
Neosho, MO 64850 USA

**Description of work**

**Neosho Golf Course Clubhouse**

| Service #    | Description                                                                                                                           | Quantity | Your Price | Total      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|
| Misc Install | Neosho Golf Course clubhouse remodel. Includes labor and material.<br>Can start project immediately will only take 1 day to complete. | 1.00     | \$1,780.00 | \$1,780.00 |

|                     |            |
|---------------------|------------|
| Sub-Total           | \$1,780.00 |
| Tax                 | \$0.00     |
| Total Due           | \$1,780.00 |
| Deposit/Downpayment | \$0.00     |

Thank you for choosing SWMO Electric, LLC

THIS IS AN ESTIMATE, NOT A CONTRACT FOR SERVICES. The summary above is furnished by SWMO Electric, LLC as a good faith estimate of work to be performed at the location described above and is based on our evaluation and does not include material price increases or additional labor and materials which may be required should unforeseen problems arise after the work has started. I understand that the final cost of the work may differ from the estimate, perhaps materially. THIS IS NOT A GUARANTEE OF THE FINAL PRICE OF WORK TO BE PERFORMED. I agree and authorize the work as summarized on these estimated terms, and I agree to pay the full amount for all work performed.

**BID FORM**

**Description:** (To be completed by bidding party)

Neosho golf course clubhouse remodel (Electrical)  
To start immediately and one day to complete. Attached  
is the estimate for this project.

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: \_\_\_\_\_

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** \_\_\_\_\_

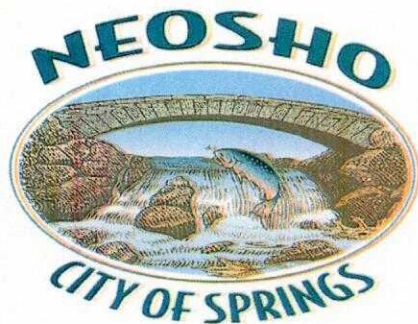
**ADDRESS:** \_\_\_\_\_

**PHONE:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

**BY:** \_\_\_\_\_





## City of Neosho

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

### INSTRUCTIONS TO BIDDERS

The City of Neosho, Missouri will accept sealed bids until **Tuesday, August 27, 2024 at 10:00 a.m.** at the Receptionist Desk of City Hall, Attn: City Clerk, 203 East Main Street, Neosho, MO 64850. The bid will be for the following:

**Project: Neosho Golf Course Clubhouse Remodel**

**Please label the envelope: Neosho Golf Course Clubhouse Remodel, Bid Opening August 27, 2024 @ 10:00 a.m.**

Questions concerning the specifications and bid procedure should be directed to Tony Martin, Pro Shop Co - manager, at [tonym@maxim.golf](mailto:tonym@maxim.golf) or Bryan Minnis at [bryanm@minnis.golf](mailto:bryanm@minnis.golf) or phone: 417-451-8013 for Tony.

All bids shall be F.O.B., Neosho, MO. All bids shall be exclusive of federal, state, and city taxes. Bids on this (these) unit(s) shall be made on forms furnished with these specifications. Additional information, specifications, deviations, and manufacturer's literature should be attached to bid forms. All bids should include the turnaround time in getting started on this project. **There will be a mandatory pre bid meeting to be held at the Neosho Golf Course Clubhouse located at 1850 Clubhouse Road, Neosho, MO 64850 on Monday, August 19, 2024 @ 10:00 a.m.**

*In section 605.040 of the City of Neosho code, it states that if a contractor performs work for the City a performance bond is required.*

Section 605.040 Certain Insurance Policies, Etc., Required Before Issuance of Licenses for Plumbers, Electricians, Contractors, and Subcontractors is amended to read as follows:

"A. In addition to payment of the license fees required of plumbers, electricians and general and special contractors and subcontractors in Section 605.010, before a plumber's, electrician's or general or special subcontractor's license may be issued to any applicant, each applicant shall produce for the inspection and approval of the City Collector the following policies of insurance together with receipts showing the premiums fully paid for the period for which the license is sought:

1. Bodily injury liability insurance providing for a limit of not less than one hundred thousand dollars (\$100,000.00) for all damages arising out of bodily injuries to or for the death of one (1) person and subject to the limit for each person, a total limit of three hundred thousand dollars (\$300,000.00) for all damages arising out of bodily injuries to or death of two (2) or more persons in any one (1) accident.
2. Comprehensive general contractor's property damage liability insurance providing for a limit of not less than fifty thousand dollars (\$50,000.00) for all damages arising out of injury to or destruction of



property in any one (1) accident and subject to that limit per accident, a total aggregate limit of three hundred thousand dollars (\$300,000.00) for all damages arising out of injury to or destruction of property during the policy period.

3. All insurance required herein must cover below-grade damage to be in full force during the entire construction process; and further be with a company approved by the City of Neosho; and such insurance shall cover the licensee and all employees of the licensee who may perform work in the City of Neosho, under the provisions of this Article.
4. Each contractor shall file a certificate showing that he/she has Workers' Compensation insurance if, under the laws of the State, he/she is required to carry such insurance.
5. Failure to comply with any of the requirements of this Section at any time during the term of the license shall result in immediate forfeiture of such license.
6. Unless otherwise provided, if a contractor performs work for the City of Neosho, the cost of which is estimated to exceed fifty thousand dollars (\$50,000.00), a performance bond running to the City, to the contract amount.

B. In addition to the requirements set forth above by this Section and the license fees required to be paid, each applicant for a plumber's license shall comply with all provisions of the Plumbing Code of the City."

If this project is in reference to a Stormwater Runoff Project, please reference Section 430.188 of City Code that states:

**A. Performance Bonds and Other Assurances for Completion of Stormwater Management Improvements.** Upon approval of the Final Stormwater Management Plan, but before the issuance of building permit, the City Building Inspector may require the applicant to post a performance bond, cash escrow, certified check, or other acceptable form of performance security for the amount of the work to be done pursuant to the approved Stormwater Management Plan.

**B. Maintenance Agreement.** A maintenance agreement, approved by the Governing Body of the City of Neosho, assuring perpetual maintenance of stormwater management improvements shall be agreed upon by the City and the applicant, if the facilities are to be maintained by the developer.

**C. Maintenance Bond.** A two (2) year maintenance bond against defects in workmanship may be required by the City for any portion of the stormwater management improvements dedicated to the public.

\*Missouri Prevailing Wage Rate if over \$75,000.00 (*A copy of the Missouri Prevailing Wage Rate is attached*)

\*Payment Bond Required for projects over \$50,000.00

\*City of Neosho Business License required

\*W-9 Required

\* Proof of Workers Compensation Coverage Provided w/ Bid

The City reserves the right to reject any or all bids and to accept the lowest or best bid. The City reserves the right to split bids, if in the best interest of the City.

Thank you,

David Kennedy  
City Manager

## **BID SPECIFICATIONS:**

### **Bid Item:**

Interior modifications for a new kitchen area and dining area at the Neosho Golf Course Clubhouse. Includes removal of existing walls, construction of new walls for the revised layout, electrical modifications, plumbing modifications, and relocation of existing equipment.

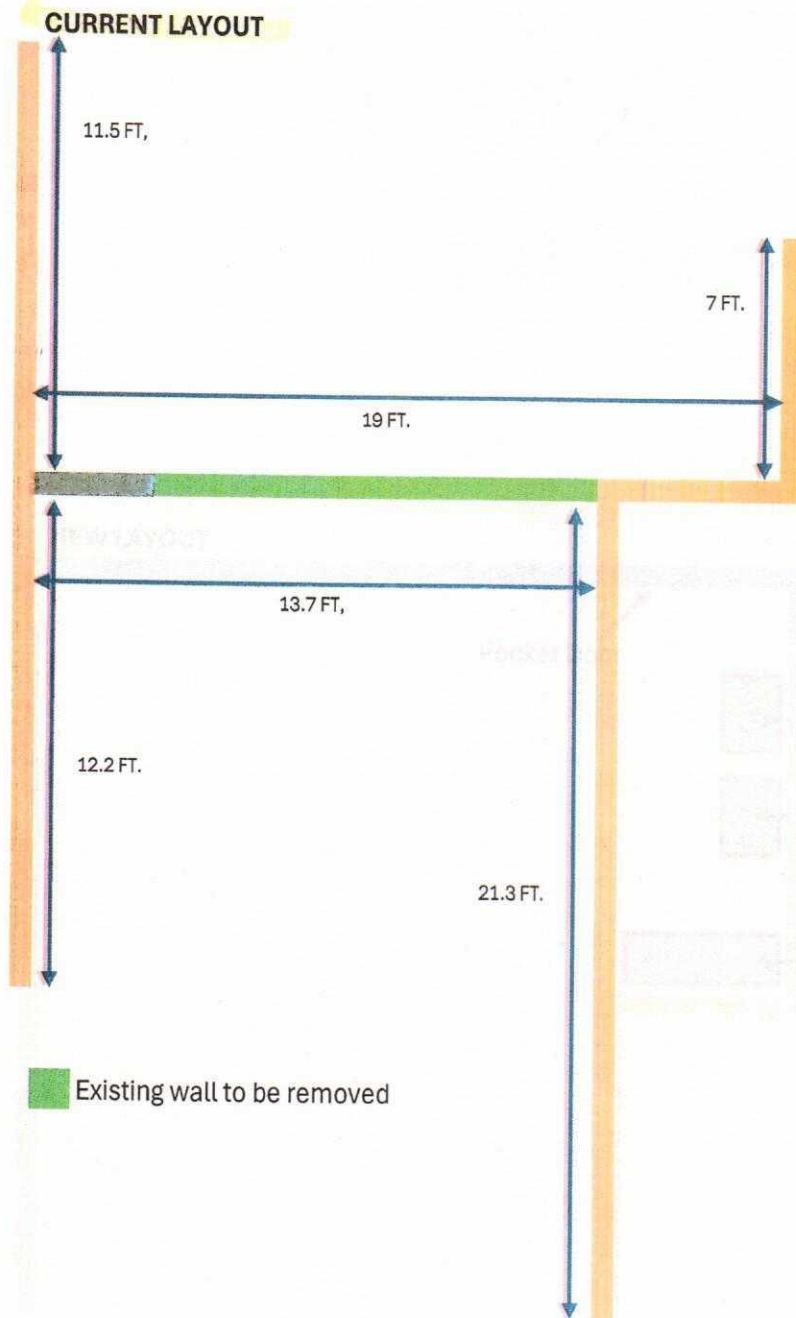
### **Notes:**

1. Prospective bidders are responsible for verifying exact layout, quantities, and footages.
2. Bidders shall visit the site, meet with the owner and confirm measurements prior to bidding.
3. Bidders shall include all necessary items for complete scope of work.

Photos are attached

### **Note:**

This bid should include the start date for this project.





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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** HVAC Bids

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**ORIGINATING DEPARTMENT:** City Manager

**ATTACHMENT:**

1. HVAC Services
  2. City-Wide HVAC Bids
- 

**PURPOSE:**

Approve the bid for HVAC services for the City of Neosho.

**BACKGROUND:**

City staff went out for bids for annual services on general maintenance for HVAC services, 5 bids were received with Precision Heat & Air being the most competitive.

**RECOMMENDATION:**

Approve the bid as submitted.

## HVAC Services

| Contractor              |  | Hourly Cost of Rep |  | Hourly Rate for Reg Bus Hrs. |  | Response Time   |  | Hourly Rate for After Hours/Holidays |  | Response Time         |
|-------------------------|--|--------------------|--|------------------------------|--|-----------------|--|--------------------------------------|--|-----------------------|
|                         |  |                    |  |                              |  |                 |  |                                      |  |                       |
| Precision Heat & Air    |  | \$75.00            |  | \$75.00                      |  | 12 Business Hrs |  | \$95.00 / \$95.00                    |  | 12 hours              |
|                         |  |                    |  |                              |  |                 |  |                                      |  | Not all paperwork     |
|                         |  |                    |  |                              |  |                 |  |                                      |  | included              |
|                         |  |                    |  |                              |  |                 |  |                                      |  |                       |
|                         |  |                    |  |                              |  |                 |  |                                      |  |                       |
| Integrity Comfort       |  | \$84.00            |  | \$84.00                      |  | 2 - 10 Bus Hrs  |  | \$168.00 / \$168.00                  |  | Usually 1.5 hours     |
|                         |  |                    |  |                              |  |                 |  |                                      |  |                       |
| West Mechanical         |  | \$90               |  | \$90.00                      |  | 24 Hours        |  | \$135.00 / \$135.00                  |  | 24 hours              |
|                         |  |                    |  |                              |  |                 |  |                                      |  |                       |
| Multi Craft Contractors |  | \$99.50            |  | \$99.50                      |  | 4 - 8 hours     |  | After Hrs & Sat \$149.25             |  | 4- 8 hours            |
|                         |  |                    |  |                              |  |                 |  | Holidays & Sundays \$199.00          |  | Each call will have a |
|                         |  |                    |  |                              |  |                 |  |                                      |  | \$60.00 vehicle       |
|                         |  |                    |  |                              |  |                 |  |                                      |  | surcharge             |
|                         |  |                    |  |                              |  |                 |  |                                      |  |                       |
| Satterlee               |  | \$110              |  | \$110.00                     |  | 2 Hours         |  | \$165.00 / \$220.00                  |  | 2 Hours               |

# Precision Heat & Air - (Rudy Moritz) 8/12/24

## Bid Specifications for HVAC

**Summary:** Bid for labor to maintain and repair any heating and air units for all City owned buildings.

**Scope of Work:** Labor for maintenance, repair, and replacement of heating and air units. This does not include repairs / purchases (which fall under required bid process)

### **Bidder should outline in their proposal the following:**

1. Hourly cost of labor for repairs. *\$75.00/hr.*
2. Hourly rate for regular business hours and response time *\$75.00/hr. - 12 business hours.*
3. Hourly rate for after hours and response time *\$95.00/hr.*
4. Hourly rate for holiday hours and response time *\$95.00/hr. - 12 hours*
5. Sample contract for services

It is understood that any materials would not be included in this bid.

The City is requesting a three-year contract with the business that is awarded the bid, however this contract will not require the city to use the entity contracted with if the contractor cannot get to the issue in a timely manner or if a project is bid out to comply with the city's purchasing policy, then the bid for the project will be awarded to the lowest or best bidder.

**BID FORM**

**Description:** (To be completed by bidding party)

~~\$~~ 84/hr during regular Business hours of 8:00-5:00pm M-Fr  
in which we can usually respond within 2-10 regular Business hours.

\$ 168/hr For after hours. We can usually respond within 1.5 hr

\$ 168/hr For Holiday hrs with 1.5 hr response time

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: 8-14-2024

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Integrity Comfort Heating & Air

**ADDRESS:** 11845 Pleasant Ln, Neosho MO 64850

**PHONE:** 417-540-6927

**EMAIL:** Integrity Cje@gmail.com

**BY:** Jeremy Booher



**BID FORM**

**Description:** (To be completed by bidding party)

1. Hourly of labor for repairs is \$90 / hr.
2. Hourly rate for regular hours + response time is \$90/hr. + 24 hrs.
3. After hours is \$135 / hr + 24 hr.
4. Holiday hours is \$ 135 / hr + 24 hr.

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: \_\_\_\_\_

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** West Mechanical Services LLC

**ADDRESS:** PO Box 386 Neosho, MO 64850

**PHONE:** 417-451-0321

**EMAIL:** west mechanical services@gmail.com

**BY:** Eli West

## Bid Specifications for HVAC

**Summary:** Bid for labor to maintain and repair any heating and air units for all City owned buildings.

**Scope of Work:** Labor for maintenance, repair, and replacement of heating and air units. This does not include repairs / purchases (which fall under required bid process)

**Bidder should outline in their proposal the following:**

1. Hourly cost of labor for repairs. *90/hr*
2. Hourly rate for regular business hours and response time *90/hr 24 hr.*
3. Hourly rate for after hours and response time *135/hr 24 hr.*
4. Hourly rate for holiday hours and response time *135/hr 24 hr.*
5. Sample contract for services

It is understood that any materials would not be included in this bid.

The City is requesting a three-year contract with the business that is awarded the bid, however this contract will not require the city to use the entity contracted with if the contractor cannot get to the issue in a timely manner or if a project is bid out to comply with the city's purchasing policy, then the bid for the project will be awarded to the lowest or best bidder.



## **BID FORM**

**Description:** (To be completed by bidding party)

Normal daytime Business Hours - Monday-Friday - 7:30 AM - 4:00 PM - \$99.50/hr

After Hours and Saturdays - \$149.25/hr

Sundays & Holidays - \$199.00/hr

Response times vary depending on emergency level, but calls are typically handled within 4 to 8 hours.

Each call will incur a \$60.00 vehicle Surcharge

Please see the attached document for a full list of services.

Our services are available immediately upon full execution of contract.

### **Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: N/A

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Multi Craft Contractors, Inc.

**ADDRESS:** PO Box 1760, Springdale, AR 72765

**PHONE:** 1-800-781-7411

**EMAIL:** mwj@multi-craft.net

**BY:** Michael Jones

**BID FORM**

**Description:** (To be completed by bidding party)

HOURLY RATES: \$110.<sup>00</sup> FOR REPAIRS / REGULAR BUSINESS HOURS  
AFTER HOURS RATES \$165.<sup>00</sup> 2 HOUR RESPONSE TIME  
NIGHTLY HOURLY RATES \$220.<sup>00</sup> 2 HOUR RESPONSE TIME

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: N/A

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

COMPANY: SPATTERLEE PLUMBING, HEATING + AIR CONDITIONING

ADDRESS: 3423 N. MAIN, JOPLIN, MO 64801

PHONE: 417-624-3660

EMAIL: troy@sattcorp.net

BY: TROY LOWERY



# Satterlee

Plumbing, Heating and  
Air Conditioning Company  
Telephone: 417-624-3660

P.O. Box 730  
3423 N Main St. Joplin, MO 64801

## Proposal

Estimator: Troy Lowery

Email Address: Troy@sattcorp.net

Proposal #: TL81424

Date: 8/14/2024

### HVAC Service Contract

City of Neosho

203 East Main

Joplin, MO 64850

### Description

Thank you for the opportunity to quote your project. Satterlee offers the following scope of work for your consideration.

Hourly Rates for Repairs and Normal Business hours is \$110.00 with 2 hour response time.

After Hours rates are \$165.00 with 2 hour response time.

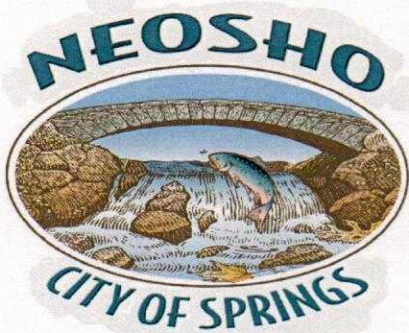
Holiday hourly rates are \$220.00 with 2 hour response time.

**These price will be held for a total of 3 years from signing of contract by City of Neosho.**

Customer Acceptance: \_\_\_\_\_

Date: \_\_\_\_\_





## City of Neosho

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

### INSTRUCTIONS TO BIDDERS

The City of Neosho, Missouri will accept sealed bids until **Thursday, August 15, 2024 at 10:00 a.m.** at the Receptionist Desk of City Hall, Attn: City Clerk, 203 East Main Street, Neosho, MO 64850. The bid will be for the following:

**Project: City Wide HVAC Bid**

**Please label the envelope: City Wide HVAC Bid, opening August 15, 2024 @10:00 a.m.**

Questions concerning the specifications and bid procedure should be directed to **David Kennedy, City Manager,** at the follow address/phone: **417-451-8050, 203 E. Main St. Neosho, MO 64850.**

All bids shall be F.O.B., Neosho, MO. All bids shall be exclusive of federal, state, and city taxes. Bids on this (these) unit(s) shall be made on forms furnished with these specifications. Additional information, specifications, deviations, and manufacturer's literature should be attached to bid forms. All bids should include the turnaround time in getting started on this project.

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2. Comprehensive general contractor's property damage liability insurance providing for a limit of not less than fifty thousand dollars (\$50,000.00) for all damages arising out of injury to or destruction of property in any one (1) accident and subject to that limit per accident, a total aggregate limit of three hundred thousand dollars (\$300,000.00) for all damages arising out of injury to or destruction of



property during the policy period.

3. All insurance required herein must cover below-grade damage to be in full force during the entire construction process; and further be with a company approved by the City of Neosho; and such insurance shall cover the licensee and all employees of the licensee who may perform work in the City of Neosho, under the provisions of this Article.
4. Each contractor shall file a certificate showing that he/she has Workers' Compensation insurance if, under the laws of the State, he/she is required to carry such insurance.
5. Failure to comply with any of the requirements of this Section at any time during the term of the license shall result in immediate forfeiture of such license.
6. Unless otherwise provided, if a contractor performs work for the City of Neosho, the cost of which is estimated to exceed fifty thousand dollars (\$50,000.00), a performance bond running to the City, to the contract amount.

B. In addition to the requirements set forth above by this Section and the license fees required to be paid, each applicant for a plumber's license shall comply with all provisions of the Plumbing Code of the City."

If this project is in reference to a Stormwater Runoff Project, please reference Section 430.188 of City Code that states:

**A.** *Performance Bonds and Other Assurances for Completion of Stormwater Management Improvements.* Upon approval of the Final Stormwater Management Plan, but before the issuance of building permit, the City Building Inspector may require the applicant to post a performance bond, cash escrow, certified check, or other acceptable form of performance security for the amount of the work to be done pursuant to the approved Stormwater Management Plan.

**B.** *Maintenance Agreement.* A maintenance agreement, approved by the Governing Body of the City of Neosho, assuring perpetual maintenance of stormwater management improvements shall be agreed upon by the City and the applicant, if the facilities are to be maintained by the developer.

**C.** *Maintenance Bond.* A two (2) year maintenance bond against defects in workmanship may be required by the City for any portion of the stormwater management improvements dedicated to the public.

\*Missouri Prevailing Wage Rate if over \$75,000.00 (*A copy of the Missouri Prevailing Wage Rate is attached*)

\*Payment Bond Required for projects over \$50,000.00

\*City of Neosho Business License required

\*W-9 Required

\* Proof of Workers Compensation Coverage Provided w/ Bid

The City reserves the right to reject any or all bids and to accept the lowest or best bid. The City reserves the right to split bids, if in the best interest of the City.

Thank you,

David Kennedy  
City Manager



## Bid Specifications for HVAC

**Summary:** Bid for labor to maintain and repair any heating and air units for all City owned buildings.

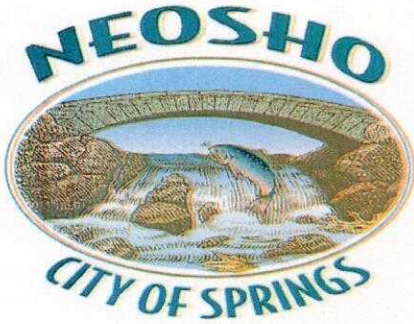
**Scope of Work:** Labor for maintenance, repair, and replacement of heating and air units. This does not include repairs / purchases (which fall under required bid process)

**Bidder should outline in their proposal the following:**

1. Hourly cost of labor for repairs.
2. Hourly rate for regular business hours and response time
3. Hourly rate for after hours and response time
4. Hourly rate for holiday hours and response time
5. Sample contract for services

It is understood that any materials would not be included in this bid.

The City is requesting a three-year contract with the business that is awarded the bid, however this contract will not require the city to use the entity contracted with if the contractor cannot get to the issue in a timely manner or if a project is bid out to comply with the city's purchasing policy, then the bid for the project will be awarded to the lowest or best bidder.



## *City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

---

Bid packets mailed to the following vendors for BIDS:

Precision Services  
422 Ravenwood Circle  
Neosho, MO 64850

Satterlee Heating & Air  
Troy Lowery  
P. O. Box 730  
Joplin, MO 64802

Mac-Co Heating and Air  
P. O. Box 205  
Anderson, MO 64831

West Mechanical  
P. O. Box 386  
Neosho, MO 64850

Paschal HVAC  
P. O. Box 2015  
Springdale, AR 72765

Integrity Heat & Air  
11845 Pleasant Lane  
Neosho, MO 64850

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Pest Control Services

---

**ORIGINATING DEPARTMENT:** City Manager

**ATTACHMENT:**

1. City-Wide Pesticide Bids

---

**PURPOSE:**

**BACKGROUND:**

City staff went out to bid general pesticide bids and received four bids back. I recommend rejecting all the bids as submitted. The purpose for rejecting is to train current staff (maintenance position) to perform monthly services for our departments. This has an instant savings for the city in the amount of over \$7,000.00. It is my intention to continue services until staff is properly trained and certified to provide this service. Training is available through the Missouri Department of Agriculture through our local MU Extension. I will also approach council once this is done to make a salary increase for this position for the added responsibilities to his position upon council approval.

**RECOMMENDATION:**

Reject all bids as submitted.



## Tomlinson, Nancy

---

**From:** CHRISTIAN PARRY - Voicemail box 100 <noreply@voicemail.goto.com>  
**Sent:** Thursday, August 15, 2024 3:13 PM  
**To:** Tomlinson, Nancy  
**Subject:** Voicemail from CHRISTIAN PARRY at (417) 317-7135 on Aug 15 2024 3:10 PM  
**Attachments:** 1723752651-0000211e.mp3

External email use caution with links & attachments.



## You received a new voicemail message



New voicemail message

**Time:** Thursday, August 15 2024 3:10 PM

**From:** CHRISTIAN PARRY (417) 317-7135

**Duration:** 1 minute 6 seconds

**Voicemail box:** 100

**Transcript:**

Hello, Nancy. This is Paul Armstrong and my phone number is 417-439-0305. Again, that's 417-439-0305. I was calling just to let you know on my bid, there were three buildings that are sprayed twice monthly. Well, I only put the bid in just to spray it one time monthly because that's all that I would need to spray to keep control of anything. But if there was any issues in between that month, any time during it, I'm going to come back at no charge. So there's no reason for me to spray it twice a month when I can do it and just once. Plus, if you have any issues, I'll just come back for no charge. But if you could give me a call or if that explains enough to you, and also on the work comp, I didn't send anything with that because I don't have any employees but myself at this time. So if there's any questions or anything, let me know. Thank you, ma'am. Bye-bye.

**BID FORM**

**Description:** (To be completed by bidding party)

please see attached:  
letter form bid  
required documents & licenses (copies)

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: \$645<sup>00</sup> (per city's bid spec sheet)

After delivery - payment made on third Tuesday of month delivered

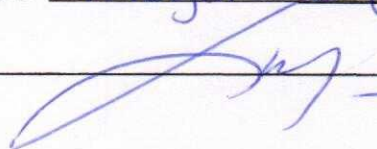
I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Advance-Magdalena Pest Control

**ADDRESS:** 707 Spencer dr, Neosho, Mo 64850 (MAILING ADD. PO Box 502)

**PHONE:** 417-451-3202

**EMAIL:** major-a@sbcglobal.net

**BY:**  Debra A Major



**BID FORM**

**Description:** (To be completed by bidding party)

See Quote Attached

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: 8/14/24

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Armstrong Pest Control

**ADDRESS:** 1561 Hottel Springs Rd. Seneca, MO 64865

**PHONE:** 417-439-0305

**EMAIL:** Parmstrong pest control @ gmail. com

**BY:** Paul Armstrong

**ARMSTRONG PEST CONTROL****QUOTE**

1561 Hottel Springs Rd  
Seneca, Mo. 64865  
Office: (417)-775-2446  
Mobile: (417)-317-7135

Date: August 14, 2024

**Total Amount: \$ 500.00**

**Bill to**

City of Neosho  
ATTN: David Kennedy  
203 E. Main St.  
Neosho, Mo.  
Office: (417) 451-8050

| Service/Product Description                        | Hours/Quantity | Monthly Fee | Total |
|----------------------------------------------------|----------------|-------------|-------|
| Neosho City Hall                                   |                | 50.00       | 50.00 |
| City Police Station                                |                | 35.00       | 35.00 |
| Fire Station #1                                    |                | 35.00       | 35.00 |
| Fire Station #2                                    |                | 35.00       | 35.00 |
| The Auditorium- 2 times monthly                    |                | 40.00       | 40.00 |
| Airport Terminal                                   |                | 35.00       | 35.00 |
| Golf Course Clubhouse                              |                | 30.00       | 30.00 |
| Lampo Center-2 times monthly                       |                | 25.00       | 25.00 |
| Senior Citizens Center-2 times monthly             |                | 60.00       | 60.00 |
| Neosho Pool House                                  |                | 30.00       | 30.00 |
| Public Works Building                              |                | 50.00       | 50.00 |
| Water Treatment Plant                              |                | 30.00       | 30.00 |
| Wastewater Treatment Plant                         |                | 30.00       | 30.00 |
| Cemetery Buildings upon request-possibly 2x yearly |                | 15.00       | 15.00 |
|                                                    |                |             |       |

|                                           |  |          |           |
|-------------------------------------------|--|----------|-----------|
|                                           |  |          |           |
| *Free Call Back for Regular Pest Control* |  | Subtotal | \$500.00  |
|                                           |  | Tax      |           |
|                                           |  | Total    | \$ 500.00 |

## Terms and conditions

Payment due 30 Days

Printed Name and Signature

---

Thank you for your business!



**BID FORM**

**Description:** (To be completed by bidding party)

Please see the attached bid in letter form. Attachments include: 1) Proposal #1; 2) Proposal #2; 3) Reference List; 4) Neosho City Contractor License; 5) Performance Bond; 6) W-9 Form; 7) COI; 8) Certifications and Licenses.

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: Per Schedule

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

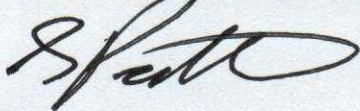
COMPANY: Bug Zero Pest Control

ADDRESS: 311 N. Waverly Ave. Springfield, MO 65802

PHONE: (417) 831-7378

EMAIL: Sales@bugzero.com

BY: Shawn Patterson C23538, Commercial Sales Rep







311 N. Waverly Avenue  
Springfield, MO 65802  
417.831.7378 Fax: 417.831.5720

## PEST CONTROL SERVICE PROPOSAL

Prepared for







311 N. Waverly Avenue  
Springfield, MO 65802

417-831-7378  
Fax: 417-831-5720  
bugzero.com

August 13, 2024

Mr. David Kennedy, City Manager  
**City of Neosho**  
203 E. Main St.  
Neosho, MO 64850

Bug Zero is locally owned and operated and has been in business in Southwest Missouri since 1990. We currently provide service to a variety of area homes and businesses, including all Mercy facilities and hospitals, all CoxHealth facilities & hospitals, Citizens Memorial Hospital, Ozarks Technical Community College, Evangel University, Phelps Health Hospital and facilities, Southwest Baptist University, Dickerson Park Zoo, KCU Medical and Dental Schools, the City of Republic, the City of Bolivar, as well as numerous restaurants, nursing homes, warehouses, hotels, resorts, office spaces, and apartment complexes. Our staff is rigorously trained and involved in continuing education programs offered by Purdue University and the American Institute of Baking, in addition to in-house sessions and classes sponsored by our state and national pest management associations and by various pest control supply manufacturers. Below is a brief description of our service.

- **Inspection-** to identify the target pests, factors contributing to their survival, and options for effective pest management.
- **Sanitation-** Make the client aware of conditions, offer advice, and document specifics in writing.
- **Exclusion** of pests from entering the building or the key area as well as the exclusion of pests from harborage.
- **Monitoring** for the presence of pests and for new developments since the previous inspection. Insect monitors will be maintained in key areas to measure the effectiveness of our service and to enable us to adjust as needed for improved results.
- **Record-keeping** to document results, identify trends, and identify pests preferred micro-climates.
- The use of pesticides as conditions warrant, rather than routine applications.
- Non-chemical alternatives are utilized whenever appropriate.
- ***No application of any pesticide shall be made in any area while it is occupied by customers.***
- Emphasis on pest prevention. Corrective treatments after a problem develops are likely to require a larger volume of pesticides.



- Service to sensitive areas emphasizes Baits, Insect Growth Regulators, and other “low impact” methods.
- Preventive interior applications are targeted to key areas such as food service and prep areas, entryways, storage, mechanical closets, break rooms, restrooms, etc....
- Several outdoor tamper-resistant rodent stations will be maintained to intercept mice *before* they enter the building.
- Mouse *traps* will be utilized in key interior areas. No rodenticide will be used inside the facility to avoid the risk of odor associated with poisoned mice.
- To facilitate communication, Bug Zero utilizes a Log Binder which allows you to enter pest sighting reports, view pest sighting history, access current Material Safety Data Sheets, copies of our insurance, and a variety of other support material to help serve you better.
- A cornerstone of preventive pest control involves exterior treatments to prevent pests from entering. To accomplish this, Bug Zero utilizes both manual and gas-powered backpack-style sprayers. This enables us to make *high-volume* applications in a timely manner and thereby reduce dependency on interior applications. This *valuable* service is included in our preventive maintenance program at *no additional fee*.
- House flies, moths, and other flying insects will not be effectively controlled by pesticide applications alone. A comprehensive program involving exterior lighting positioning, dumpster sanitation, and physical exclusion is needed to effectively address flying insects. Your service technician will advise you on recommended measures as conditions warrant. Fly bait stations, electric traps, and other control devices are available from Bug Zero.

#### **Recent Achievements and Awards**

- 2024 Best of the Four States – 2<sup>nd</sup> Place
- 2024 Joplin Globe Favorite of the Four States – 2<sup>nd</sup> Place Pest Control
- 2023 Joplin Area Chamber of Commerce Business of the Year – Top 3 Finalist
- 2023 Springfield Area Chamber of Commerce Small Business of the Year – Top 5 Finalist
- 2023 Best of SWMO Magazine – Voted Best Pest Control Company
- 2023 Best of the Four States – 2<sup>nd</sup> Place Pest Control
- 2023 Joplin Globe Favorites of the Four States – 2<sup>nd</sup> Place Pest Control
- 2023 Joplin Globe Top 20 Under 40 – Shawn Patterson, Commercial Sales Consultant, Nominated in the Top 20 Under 40
- 2023 Leadership Joplin – Shawn Patterson, Commercial Sales Consultant, 2023 Graduate and now member of the Leadership Joplin Steering Committee
- 2022 Leadership Springfield – Jordan Hicks, Director of Sales & Service, Graduate of Signature Class 41 of Leadership Springfield
- 2015, 2016, 2017 – Springfield News Leader Best of the Ozarks



- Founder & Owner, Ivan Eftink, was elected as President of the Missouri Pest Management Association, serving two years in that role. Ivan was also a member of the Commercial Services Committee for the National Pest Management Association. He currently sits on the Board of Directors for Associated Pest Management and the Springfield Executive Breakfast Club. Ivan also won "Man of the Year" with Missouri Pest Management Association.

### **Certifications & Experience**

- Bug Zero has two full-time entomologists on staff.
- Each Bug Zero technician is required to complete a Pest Control Technology course from Purdue University.
- Several of our certified technicians have completed the Purdue University Intermediate-Level Urban and Industrial Integrated Pest Management course.
- Many Bug Zero technicians have completed the National Pest Management Association's Food Safety Pest Management for Food Plants training.
- Several Bug Zero technicians have completed courses in Global Solutions for Mosquito Control from Clarke Mosquito Control.
- Many Bug Zero technicians are also licensed in additional categories of pest control, such as: Agricultural Plant and Animal Control, Forest Pest Control, Ornamental and Turf Pest Control, Aquatic Pest Control, Right-of-Way Pest Control, General Structure Pest Control, Termite Pest Control, Fumigation Pest Control, and Public Health Pest Control
- Bug Zero has been providing professional pest control solutions since June 1, 1990.
- Bug Zero is an approved member of VendorMate.
- Bug Zero is licensed in Missouri, Arkansas, Kansas, & Oklahoma.
- Bug Zero has 32 local personnel with a combined 197 years of pest control management experience.
- Bug Zero employees and technicians complete Staff Training, provided by Bug Zero, twice per month at Bug Zero Headquarters.
- Proud and active members of the **Neosho Area Chamber of Commerce** and Joplin Area Chamber of Commerce



Mr. David Kennedy, City Manager

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We appreciate the opportunity to submit a proposal to the City of Neosho. Listed below is the breakdown of the regular scheduled treatments. I have included two options for you to review. Option 1 is based on the bid specifications sent out in the RFP. Option 2 is our proposal for services that are more cost effective and more valuable.

### Regular Scheduled Treatments

#### Option 1 – Bid Specifications in RFP

This proposal would include a monthly service to: **Neosho City Hall, City Police Station, Fire Station #1, Fire Station #2, Airport Terminal, Golf Course Clubhouse, Neosho Pool House, Public Works Building, Water Treatment Plant, and Wastewater Treatment Plant.** It would include **two** monthly services to **The Auditorium, Lampo Center, and Senior Citizens Center.** During each service we would make an interior and exterior application, along with rodent control, fly control, and a continuous warranty in between services. Fly control would consist of treating exterior dumpsters, trash bins, and entryways with a liquid application and a fly spot bait.

Bug Zero's Exterior Perimeter Treatments consist of several rotating features that we perform at key times throughout the season. These features include but are not limited to exterior power sprays, treating around doors and windows, crack and crevice treatments, physical exclusion, web removal, and ant/wasp prevention. These are included in your service fee with no additional charges.

#### Option 2 – Bug Zero Proposed Services

This proposal would include a **quarterly** treatment to: **Neosho City Hall, City Police Station, Fire Station #1, Fire Station #2, Airport Terminal, Lampo Center, Public Works Building, Water Treatment Plant, and Wastewater Treatment Plant.** This proposal would include a **monthly** treatment to: **The Auditorium, Golf Course Clubhouse, and Senior Citizens Center.** The **Neosho Pool House** would get treatments during the months of May, June, July, August, November, and February in this proposal. During each service we would make an interior and exterior application, along with rodent control, fly control, and a continuous warranty in between services. Fly control would consist of treating exterior dumpsters, trash bins, and entryways with a liquid application and a fly spot bait.

Bug Zero's Exterior Perimeter Treatments consist of several rotating features that we perform at key times throughout the season. These features include but are not limited to exterior power sprays, treating around doors and windows, crack and crevice treatments, physical exclusion, web removal, and ant/wasp prevention. These are included in your service fee with no additional charges.



Mr. David Kennedy

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### **Initial Pest Control Service**

The initial pest control service price includes the regular monthly price plus a three-step brown recluse spider treatment to the **Senior Citizen Center**. Staff on-site reported "a lot" of brown recluse activity that has been ongoing and for this treatment we would be making applications above the drop ceiling using an electric mister, prior to them opening for the day. We would make this treatment, along with other treatments targeting brown recluse spiders for the following two months after the initial service.

It is our recommendation to go with Option 2 on this proposal. It still gets the higher risk buildings treated monthly and the buildings that are not classified as high risk quarterly. You would also have a continuous warranty between services, so if any issues arise that need our attention, we will take care of those at no additional cost.

The services outlined above are listed below and available at the cost of:

Option 1 - \$998 monthly with a \$1,248 initial service cost to also include the brown recluse three-step

Option 2 - \$509 monthly with a \$759 initial service cost to also include the brown recluse three-step.

Cemetery Buildings would get treated as requested at the cost of \$40 each request.

This service does not include bed bugs, termites, moles, birds, or other non-general pests, although many of those services are available under a separate contract.

### **Observations & Recommendations from Bug Zero Tour**

**Observation #1:** Large gaps under doors at The Auditorium and heavy amount of spider's webs around entry way doors in the rear of the building. **Recommendation:** I recommend replacing door sweeps to prevent pest entry and a more focus and detailed exterior pest control treatment to eliminate pests before they enter.

**Observation #2:** Active wasp nest on exterior of the Neosho Pool House and heavy fly activity. **Recommendation:** I recommend a more proactive approach to pest management. Bug Zero includes wasp prevention at all commercial accounts every spring and maintains that warranty year-round. We will also provide aggressive fly control at this location during fly season.



Mr. David Kennedy, City Manager

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**Observation #3:** Bait packs for rodent control were thrown on the interior of Fire Station #2, Public Works Building, and Senior Citizen Center. Staff also stated the technician hands them bait packs to put out on their own. **Recommendation:** Remove all bait packs from the interior and especially the kitchens and dry food storage areas that they are currently in. This is a major health code violation and could contaminate food and food prep areas. There are other methods for interior rodent control that are safer, more effective, and do not violate any labels. No staff should be applying pesticides or rodenticides without the proper licensing and training. This should be completed by the pest control company.

**Observation #4:** Reports of mice, brown recluse spiders, and wasps at the Senior Citizens Center. Staff on-site stated that no one has ever treated above the drop ceilings here and they are handed glue traps from their technician to place on their own. Dustin then showed me a picture of a glue trap that contained several brown recluse spiders. **Recommendation:** I recommend a three-step brown recluse service at this location and a more focus and detailed exterior pest control plan. At Bug Zero, we focus a majority of our efforts on eliminating the pests at their source, before they enter, on the exterior. It was brought up at several locations that the City of Neosho buildings are not getting exterior treatments and there is no current exterior rodent control to prevent mice from entering in the first place.

Bug Zero's service includes far more than I could itemize here. I hope that you will take the time to ask the opinions of those on the enclosed reference list. Additional references are available at your request. If I can provide any additional information to help you, please call me. I am hopeful for the opportunity of working with you and the staff at the City of Neosho in the very near future.

Sincerely,



BUG ZERO, INC.  
Shawn Patterson  
Commercial Sales Consultant



## City of Neosho Pricing Breakdown

| Name                       | Location                                 | Rodent Stations | Interior Minutes | Exterior Minutes | Frequency | Total Minutes |
|----------------------------|------------------------------------------|-----------------|------------------|------------------|-----------|---------------|
| Neosho City Hall           | 203 E. Main St. Neosho, MO 64850         | 5               | 20               | 8                | N/A       | 33            |
| Neosho City Police Station | 201 N. College St. Neosho, MO 64850      | 4               | 14               | 5                | N/A       | 23            |
| Neosho Fire Station #1     | 125 N. College St. Neosho, MO 64850      | 8               | 20               | 10               | N/A       | 38            |
| Neosho Fire Station #2     | 501 Industrial Dr. Neosho, MO 64850      | 8               | 25               | 12               | N/A       | 45            |
| The Auditorium             | 109 W. Main St. Neosho, MO 64850         | 6               | 20               | 10               | N/A       | 36            |
| Airport Terminal           | 1400 Terry Johnson Dr. Neosho, MO 64850  | 4               | 12               | 7                | N/A       | 23            |
| Golf Course Clubhouse      | 1850 Clubhouse Dr. Neosho, MO 64850      | 6               | 18               | 8                | N/A       | 32            |
| Lampo Center               | 500 E. Spring St.                        | 8               | 10               | 10               | N/A       | 28            |
| Senior Citizens Center     | 1017 Carl Sweeney Pkwy. Neosho, MO 64850 | 10              | 25               | 12               | N/A       | 47            |
| Neosho Pool House          | 416 Fairground Rd. Neosho, MO 64850      | 4               | 10               | 5                | N/A       | 19            |
| Public Works Buildings     | 200 Nelson Ave. Neosho, MO 64850         | 8               | 20               | 8                | N/A       | 36            |
| Water Treatment Plant      | 15318 Kentucky Rd. Neosho, MO 64850      | 0               | 10               | 0                | N/A       | 10            |
| Wastewater Treatment Plant | Shoal Creek Plant                        | 3               | 10               | 5                | N/A       | 18            |



## **Bid Specifications for Pest Control**

### **Summary:**

Monthly Pest Control

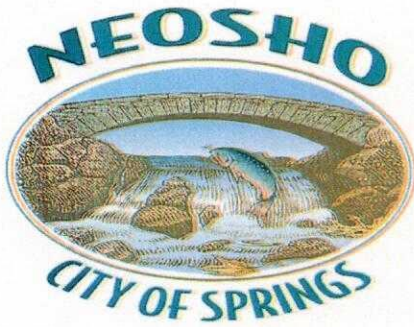
### **Scope of Work:**

- Neosho City Hall
- City Police Station
- Fire Station #1
- Fire Station #2
- The Auditorium – 2 times monthly
- Airport Terminal
- Golf Course Clubhouse
- Lampo Center – 2 times monthly
- Senior Citizens Center – 2 times monthly
- Neosho Pool House
- Public Works Buildings
- Water Treatment Plant
- Wastewater Treatment Plant
- Cemetary Buildings upon request – possibly 2 times per year

### **Bidder should outline in their proposal the following:**

- Copies of Bonding, Cerfifications, and Licenses
- Monthly fee to be charged for Pest Control for all facilities noted above
- Hourly fee for emergencies during:
  - Normal business hours
  - After Hours
  - Holiday Hours

The City is requesting a three year contract with the business that is awarded the bid.



## *City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

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Bid packets mailed to the following vendors for BIDS:

Major Enterprises  
P. O. Box 502  
Neosho, MO 64850

Schendel Pest Services  
3202 S Campbell Ave  
Springfield, MO 65807

Armstrong Pest Control  
1561 Hottel Springs Road  
Seneca, MO 64865





*City of Neosho*

203 E. Main St.  
Neosho, MO 64850  
(417) 451-8050 phone  
(417) 451-8065 fax  
[www.neoshomo.org](http://www.neoshomo.org)

### INSTRUCTIONS TO BIDDERS

The City of Neosho, Missouri will accept sealed bids until **Thursday, August 15, 2024 at 10:00 a.m.** at the Receptionist Desk of City Hall, Attn: City Clerk, 203 East Main Street, Neosho, MO 64850. The bid will be for the following:

**Project: City Wide Pest Control Bid**

**Please label the envelope: City Wide Pest Control, bid opening August 15, 2024 @10:00 a.m.**

Questions concerning the specifications and bid procedure should be directed to **David Kennedy, City Manager, at the follow address/phone: 417-451-8050, 203 E. Main St. Neosho, MO 64850.**

All bids shall be F.O.B., Neosho, MO. All bids shall be exclusive of federal, state, and city taxes. Bids on this (these) unit(s) shall be made on forms furnished with these specifications. Additional information, specifications, deviations, and manufacturer's literature should be attached to bid forms. All bids should include the turnaround time in getting started on this project.

*In section 605.040 of the City of Neosho code, it states that if a contractor performs work for the City a performance bond is required.*

Section 605.040 Certain Insurance Policies, Etc., Required Before Issuance of Licenses for Plumbers, Electricians, Contractors, and Subcontractors is amended to read as follows:

"A. In addition to payment of the license fees required of plumbers, electricians and general and special contractors and subcontractors in Section 605.010, before a plumber's, electrician's or general or special subcontractor's license may be issued to any applicant, each applicant shall produce for the inspection and approval of the City Collector the following policies of insurance together with receipts showing the premiums fully paid for the period for which the license is sought:

1. Bodily injury liability insurance providing for a limit of not less than one hundred thousand dollars (\$100,000.00) for all damages arising out of bodily injuries to or for the death of one (1) person and subject to the limit for each person, a total limit of three hundred thousand dollars (\$300,000.00) for all damages arising out of bodily injuries to or death of two (2) or more persons in any one (1) accident.
2. Comprehensive general contractor's property damage liability insurance providing for a limit of not less than fifty thousand dollars (\$50,000.00) for all damages arising out of injury to or destruction of property in any one (1) accident and subject to that limit per accident, a total aggregate limit of three hundred thousand dollars (\$300,000.00) for all damages arising out of injury to or destruction of

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Bill No. 2024-76: Request for Voluntary Annexation 2830 Bowler Drive

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**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Bill No. 2024-76 Approving Annexation of 2830 Bowler
  2. 2830 Bowler Drive Application
  3. 2830 Bowler Deed
  4. 2830 Bowler Drive Ad
  5. 2830 Bowler city limit
- 

**PURPOSE:**

The purpose of this item is to gain the Council's approval of the voluntary annexation of 2830 Bowler Drive.

**BACKGROUND:**

The owners of 2830 Bowler have petitioned for voluntary annexation into the city limits. Proper posting and notification has been completed, and a public hearing was conducted by the Planning and Zoning Committee. No public comment was received. The Planning and Zoning Committee recommended that the City Council accept the request for annexation. A public hearing was conducted at the August 20, 2024, City Council meeting. No public comment was received.

**RECOMMENDATION:**

Staff recommends that the City Council accepts the voluntary annexation of 2830 Bowler Drive into the city limits.



**AN ORDINANCE of the City of Neosho approving the voluntary annexation of a certain tract of land, as petitioned by Gary Don Jones and Teborah T. Jones, husband and wife, owner of real property to be annexed to the City of Neosho, Missouri, and for the extension of the city limits of the City of Neosho, embracing and including unincorporated real property located in Newton County, Missouri, hereinafter described.**

WHEREAS, there has been presented to the City of Neosho, Missouri, a verified Petition of all fee owners seeking annexation of the land described herein; and

WHEREAS, after having referred the subject matter of this request to the Planning and Zoning Commission for the City of Neosho, and after due publication in the Neosho Daily News, a newspaper having general circulation within the City of Neosho Missouri, as required by law and having held a public hearing thereon by the Planning and Zoning Commission, with a recommendation then reviewed and taken up at public hearing by the City Council on August 20, 2024, the Council, by Motion, determined that it wished to proceed with the annexation of said tracts of land; and

WHEREAS, fourteen (14) days have elapsed since the holding of such public hearing and no sufficient written objection has been received; and

WHEREAS, it has been determined that said annexation is in the best interests of the City of Neosho, Missouri, and that the City has the ability to furnish normal and customary services to the area to be annexed within a reasonable time.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That the following described area of land is hereby incorporated within the corporate city limits of Neosho, Missouri, to be embraced and include all that part of said County of Newton lying within the following boundary lines, two-wit:

All of Lot 3 Bowler's Third Subdivision, Newton County, Missouri, According to the recorded Plat thereof.

**Section 2.** That the City Clerk is hereby authorized and directed to file three (3) certified copies of this Ordinance with the Newton County Clerk.

**Section 3.** This ordinance shall be in effect upon final passage.

(This space intentionally left blank.)

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this 3rd day of September, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

## EXHIBIT A

A tract of land in the Northwest Quarter of the Northeast Quarter of Section 22, Township 25 North, Range 32 West and being more particularly described as follows: Commencing at a Found Aluminum Monument at the Northwest corner of said Northwest Quarter of the Northeast Quarter, thence along the West line of said Northwest Quarter of the Northeast Quarter, S 01°07'01" W, 144.22 feet to the point of beginning, thence S 89°10'02" E, 24.72 feet to a found right of way marker, thence N 50°12'13" E, 118.72 feet to a found right of way marker, thence S 88°53'58" E, 253.29 feet to a set iron pin, thence S 01°14'01" W, 837.92 feet to a set iron pin, thence N 89°03'28" W, 366.02 feet to a point on the West line of said Northwest Quarter of the Northeast Quarter, thence along said West line N 01°07'01" E, 761.07 feet to the point of beginning.

### EXCEPT

ALL THAT PART OF THE NORTHWEST QUARTER (NW/4) OF THE NORTHEAST QUARTER (NE/4) OF SECTION 22, TOWNSHIP 25, RANGE 32, NEWTON COUNTY, MISSOURI, DESCRIBED AS FOLLOWS: COMMENCING AT A FOUND ALUMINUM MONUMENT AT THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF SAID SECTION 22, THENCE SOUTH 01°07'05" WEST ALONG THE WEST LINE OF SAID NORTHEAST QUARTER A DISTANCE OF 161.78 FEET TO THE SOUTH RIGHT OF WAY LINE OF HIGHWAY 86 TO THE POINT OF BEGINNING; THENCE SOUTH 88°52'09" EAST A DISTANCE OF 24.63 FEET ALONG SAID RIGHT OF WAY; THENCE NORTH 01°04'51" EAST A DISTANCE OF 17.31 FEET ALONG SAID RIGHT OF WAY; THENCE NORTH 50°06'04" EAST A DISTANCE OF 118.62 FEET ALONG SAID RIGHT OF WAY; THENCE SOUTH 88°50'59" EAST A DISTANCE OF 75.13 FEET ALONG SAID RIGHT OF WAY; THENCE SOUTH 88°51'10" EAST A DISTANCE OF 10.86 FEET ALONG SAID RIGHT OF WAY; THENCE LEAVING SAID RIGHT OF WAY SOUTH 01°07'41" WEST A DISTANCE OF 248.93 FEET; THENCE NORTH 88°54'22" WEST A DISTANCE OF 200.07 FEET TO THE WEST LINE OF SAID NORTHEAST QUARTER; THENCE NORTH 01°07'05" EAST ALONG SAID LINE A DISTANCE OF 153.91 FEET TO THE POINT OF BEGINNING. EXCEPT ANY PART TAKEN OR DEEDED FOR ROAD.



## Planning and Zoning Department

City Hall 203 E. Main Neosho, MO 64850 Phone 451-8050

# PLANNING AND ZONING APPLICATION

### PROJECT TITLE & TYPE

- |                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Preliminary Plat / Site Plan | <input type="checkbox"/> Vacation of Right-of-Way |
| <input type="checkbox"/> Special Use Permit           | <input type="checkbox"/> Board of Adjustments     |
| <input type="checkbox"/> Rezoning                     | <input type="checkbox"/> Vacation of Easement     |
| <input type="checkbox"/> Final Plat / Site Plan       | <input type="checkbox"/> Other <u>ANNEXATION</u>  |

### INFORMATION

| APPLICANT            |                           | PROJECT          |                    |
|----------------------|---------------------------|------------------|--------------------|
| Name                 | <u>Gary Deborah Jones</u> | Project Location | <u>2830 Bowler</u> |
| Address              | <u>2830 Bowler Dr</u>     | Existing Use     | <u>RESIDENTIAL</u> |
| Phone                | <u>785 741 3780</u>       | Proposed Use     | <u>RESIDENTIAL</u> |
| Contact Person Name  | _____                     | Existing Zone    | <u>N/A</u>         |
| Contact Person Phone | _____                     | Proposed Zone    | <u>Z-1</u>         |

### SIGNATURE OF OWNERS & DATE

The above information and the attached list of property owners and the area map are true and accurate to the best of my knowledge.

|                       |                |
|-----------------------|----------------|
| <u>[Signature]</u>    | <u>7-10-24</u> |
| Signature of Owner    | Date           |
| <u>[Signature]</u>    | <u>7-10-24</u> |
| Signature of Co-Owner | Date           |

#### Staff Use Only

Application Accepted...

Date \_\_\_\_\_

Time \_\_\_\_\_

By \_\_\_\_\_

- |                                                                 |
|-----------------------------------------------------------------|
| <input type="checkbox"/> Application Fee Received               |
| <input type="checkbox"/> Deed Attached                          |
| <input type="checkbox"/> Parcel Map Attached                    |
| <input type="checkbox"/> Property Owners Within 200 Ft Attached |
| <input type="checkbox"/> Publication Fee Received               |

785 741 3780  
JONES0056@HOTMAIL.COM

Recorded in Newton County, Missouri



Recording Date/Time: 06/13/2017 at 02:13:43 PM

Book: 366

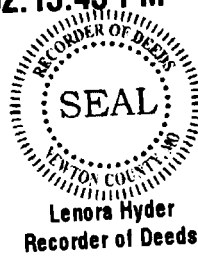
Page: 3935

Instr #: 201703970

Type: WD

Pages: 2

Fee: \$27.00 \$ 20170003475



CHECK # 14907 87<sup>00</sup>  
CASH 3.00

GENERAL WARRANTY DEED

# 33018

THIS DEED, made and entered into by and between Jerry L. Haught and Diane Haught, husband and wife, "Grantors" and Gary Don Jones and Teborah Tay Jones, husband and wife, "Grantee". Grantee's mailing address is: 2830 Bowler Dr. Neosho, MO

64850

WITNESSETH, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, receipt of which is hereby acknowledged;

Grantors do hereby Grant, Bargain and Sell, convey and confirm, to Grantee, and Grantee's heirs and assigns, the following described real property in Newton County, Missouri, to wit:

**All of Lot 3 Bowler's Third Subdivision, Newton County, Missouri, According to the recorded Plat thereof. (physical address is 2830 Bowler Drive, Neosho, MO 64850)**

SUBJECT TO any restrictions, covenants, easements, or rights of way of record.

To have and to hold the same, together with all rights, immunities, privileges, and appurtenances, unto Grantee and Grantee's heirs and assigns, forever;

Grantors hereby covenant that these premises are free from all encumbrances except as set forth above, and that Grantors will warrant and defend the title to these premises unto the Grantee, and Grantee's heirs and assigns, forever, against the lawful claims of all persons whomsoever.

Witness the hand of Grantors this 11<sup>th</sup> day of May, 2016.

Grantors:

Jerry L. Haught

Diane Haught

STATE OF MISSOURI       )  
                                      ) ss.  
COUNTY OF NEWTON     )

On this 11<sup>th</sup> day of May, 2016, before me, a Notary Public, personally appeared Jerry L. Haught and Diane Haught, husband and wife, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the day and year first above written.



STEPHANIE M. BRACKEN  
My Commission Expires  
December 16, 2018  
Jasper County  
Commission #14632099

My Commission Expires:

12-16-2019

Stephanie M Bracken  
Notary Public

## Notice of Public Hearing

Planning and Zoning Public Hearing  
August 13, 2024 @ 6:00pm  
City Council Chambers  
203 East Main Street

City Council Public Hearing  
August 20, 2024 @ 7:00pm  
City Council Chambers  
203 East Main Street

Regarding the voluntary annexation of property in the area of 2830 Bowler Drive described as:

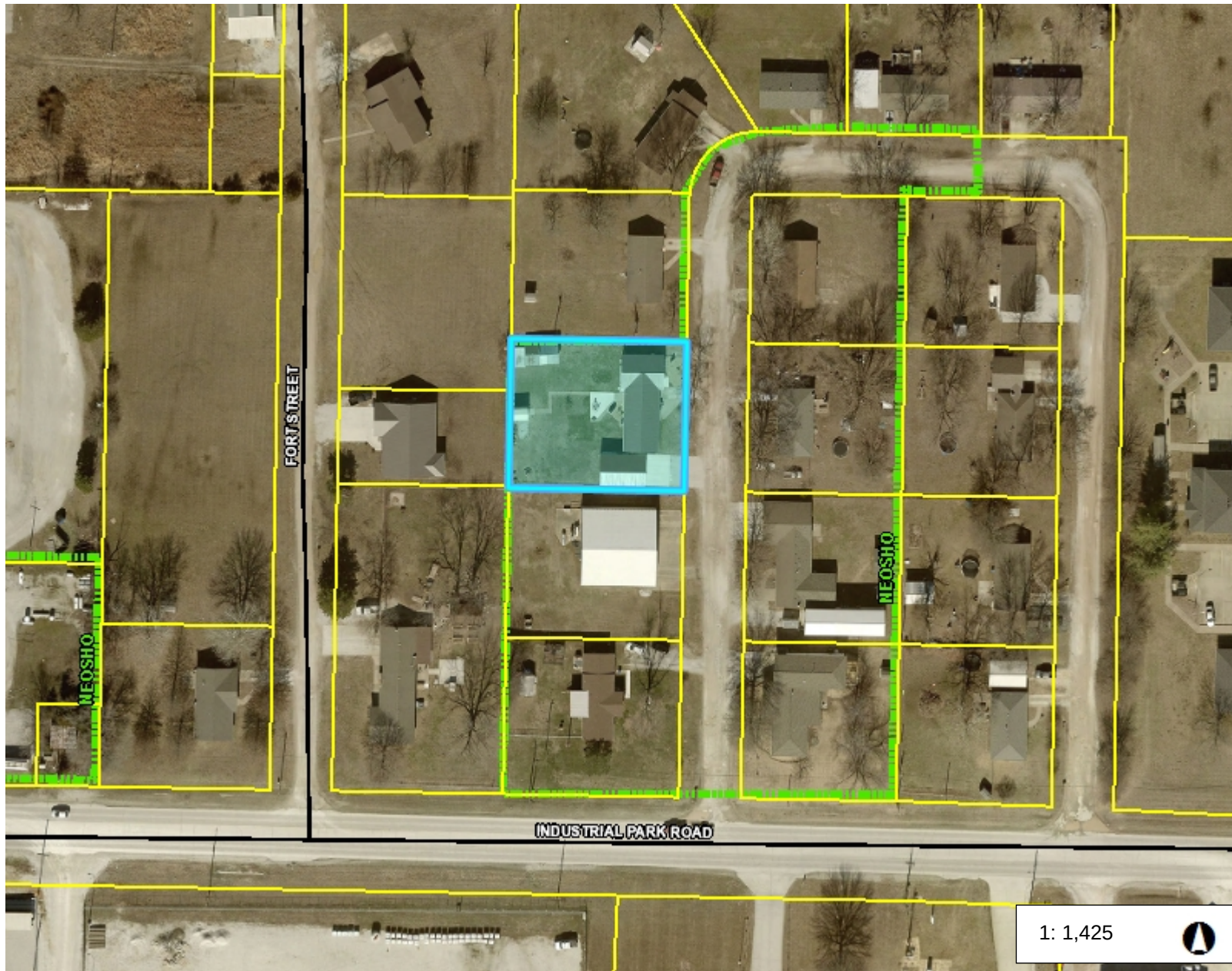
All of Lot 3 Bowler's Third Subdivision, Newton County, Missouri, according to the recorded Plat thereof.

Inquiries please contact:

Richard Leavens  
City of Neosho  
Development Services Director  
(417) 451-8050



# Neosho, MO



## Legend

### Neosho Streets

- <all other values>
- INTERSTATE
- U.S. HIGHWAY
- STATE HIGHWAY
- ALLEY
- CITY STREET
- NAMED COUNTY ROAD
- PLATTED/UNDEVELOPED
- UNNAMED
- VACATED STREET

- Parcel
- Corporate Limit Line

## Notes

2830 Bowler Drive

237.5 0 118.76 237.5 Feet

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
THIS MAP IS NOT TO BE USED FOR NAVIGATION



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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Bill No. 2024-77: Amending Ordinance 215.195 Fireworks

---

**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Bill No. 2024-77 Amending City Code Section 215.195 Fireworks
  2. Fireworks Suggestions
- 

**PURPOSE:**

The purpose of this item is to gain the Council's input and approval of changes in the dates and times approved for discharging fireworks in the city limits.

**BACKGROUND:**

The current ordinance allows for the discharging of fireworks from July 1 through July 10 from 7:00am to 11:00pm and on July 4 from 7:00am to 12:00 midnight. Staff offers several options and comparisons to area jurisdictions discharge times.

**RECOMMENDATION:**

The staff is looking for direction from the City Council.

**AN ORDINANCE of the City of Neosho amending Chapter 215 Offenses and Miscellaneous Provisions, Article IV Offenses Concerning Public Safety by repealing and replacing Section 215.195 Fireworks, of the Code of Ordinances for provisions for the sale and use of fireworks pursuant to Section 320.111 RSMo, including year-round firework sales.**

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That Chapter 215 Offenses and Miscellaneous Provisions, Article IV Offenses Concerning Public Safety, Section 215.195 Fireworks of the Code of Ordinances is repealed in its entirety replaced with a new Section 215.195 Fireworks to be hereby adopted to read as follows:

“Chapter 215 Offenses and Miscellaneous Provisions”

“Section 215.195 Fireworks”

- A. Fireworks retail businesses intended to operate year-round must operate from a permanent structure under the rules established by Missouri State Statute 320.111.
- B. Seasonal fireworks retailers are allowed in the City as permitted by the City Zoning Code, with the exception that nonprofit tax exempted entities are permitted at the entity’s location. Seasonal retailers shall be limited to the period of 7:00 A.M. to 10:00 P.M. on June 20 through July 5 and may operate from portable structures and tents.
- C. The discharge of fireworks in the city limits is prohibited with the following exceptions:
  - 7:00 A.M. to 12:00 P.M. (Midnight) on July 4th and 7:00 A.M. to 11:00 P.M. on the Saturday and Sunday immediately prior to July 4th and the Saturday and Sunday immediately following July 4. If July 4 falls on a Saturday or Sunday, then the exceptions shall be the weekend of July 4 and the Saturday and Sunday before that holiday weekend. By way of example, if July 4 falls on a Wednesday, the days allowed for discharge would be June 30, July 1, July 4, as well as July 7-8. If July 4 falls on a Saturday, the days allowed for use would be June 27-28 and July 4 and July 5.
  - December 31 at 5:00 P.M. to January 1 at 1:00 A.M.
  - The evening of the Neosho School District High School graduation event on school district property from 3:00 P.M. to 11:00 P.M.
- D. Only the sales and use of Type 1.4 fireworks are allowed, excluding bottle rockets.
- E. Fireworks sales and storage are to be governed by the Missouri Division of Fire Safety Rules.
- F. Fireworks displays for the general public must be approved by the Fire Department.
- G. The manufacture of fireworks is prohibited.

H. In order to sell fireworks, a City merchant's license must be purchased, with all locations to be inspected by the Fire Chief or the Fire Chief's designee prior to the issuance of the license. Sales locations will be subject to the Building and Fire Safety Codes adopted by the City.

**Section 2.** All ordinances or parts of ordinances in conflict herewith are hereby repealed, but shall otherwise remain in full force and effect.

**Section 3.** This Ordinance shall be effective \_\_\_\_\_, 2024.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

## Section 215.195 **Fireworks**

***Currently***, the sales of seasonal fireworks are limited, “to the period of 7:00 A.M. to 10:00 P.M. on June 20 through July 5.”

***Currently***, the discharge of fireworks is limited to the periods of 7:00 A.M. to 11:00 P.M. on July 1 through July 10. July 4<sup>th</sup> fireworks may be discharged from 7:00 A.M. to 12:00 Midnight.

### ***Recommendation for discharge:***

Discharge of fireworks is limited to the periods of 7:00 A.M. to 11:00 P.M. the weekend of or before July 4 and the weekend after. Fireworks may also be discharged on July 4<sup>th</sup>. Fireworks may be discharged from 7:00 A.M. to 12:00 Midnight.

### **Weekend Definition:**

From Saturday at 12:01am to Sunday at 11:59pm.

### **Other area cities:**

In Joplin: July 1, 2, 3, and 4 from Noon to 11 p.m.

In Granby: on July second (2nd) and third (3rd) from 9:00 A.M. to 9:00 P.M., and on July fourth (4th) from 9:00 A.M. to 12:00 A.M. of each year.

In Diamond: on June 30th, July 1st, 2nd, 3rd, 4th and 5th each year between the hours of 9:00 a.m. and 11:00 p.m. or at such other times the City or it's designate authorizes such events. In the event the 4th of July falls on a Sunday or Monday, July 5th is observed as a holiday, fireworks will be permitted between the hours of 9:00 a.m. and 11:00 p.m.

In Goodman: between the hours of 8:00 A.M. and 11:00 P.M. on the Fourth of July.

In Carthage: June 30th to July 3rd from 9:00am until 11:00pm each evening. - July 4th until July 5th from 9:00am until 1:00am.

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM: Bill No. 2024-78: Contract with Jackson Plumbing for City-wide Plumbing Services**

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**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Bill No. 2024-78 Authorizing Jackson Plumbing Service Contract
  2. Contract with Craig Jackson independent contractor agreement RE city wide plumbing services
  3. Jackson Plumbing Bid
  4. Plumbing Services
- 

**PURPOSE:**

To approve an agreement with Jackson Plumbing for city-wide plumbing services.

**BACKGROUND:**

During the August 20, 2024 council meeting, council approved Jackson Plumbing for city-wide plumbing services. This agreement will be a three-year contract for these services.

**RECOMMENDATION:**

Staff recommends approving the contract with Jackson Plumbing.

**AN ORDINANCE authorizing the City of Neosho, Missouri, to enter into an Agreement with Craig Jackson d/b/a Jackson Sales & Service, for the purpose of providing plumbing services; and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.**

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That the Agreement by and between the City of Neosho, Missouri, and Craig Jackson d/b/a Jackson Sales & Service, for the purpose of providing plumbing services, a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

**Section 2.** That the Mayor of the City of Neosho, Missouri, is hereby authorized and directed to execute said Agreement by and on behalf of the City of Neosho.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

## INDEPENDENT CONTRACTOR AGREEMENT

This AGREEMENT is entered into this \_\_\_\_\_ day of October, 2024, by and between the City of Neosho, Missouri (hereinafter “City”), and Craig Jackson d/b/a Jackson Sales & Service (hereinafter “Contractor”), and with City and Contractor being referred to collectively as the “parties.”

WHEREAS, City desires to engage an independent contractor for the purpose of providing plumbing services; and

WHEREAS, Contractor desires to be engaged as an independent contractor for the purpose of providing plumbing services.

NOW THEREFORE, the parties do hereby agree as follows:

1. Term. The term of this Agreement is from October 1, 2024 through September 30, 2025, unless terminated as provided herein.

2. Contractor’s Services. Contractor agrees to diligently perform in a professional and workmanlike manner the scope of services specified in City’s Request for Proposal, attached hereto and incorporated by reference as Exhibit A, and Contractor’s Response to City’s Request for Proposal, attached hereto and incorporated by reference as Exhibit B. Specifically, Contractor agrees to provide plumbing services for the routine maintenance, repair, and replacement of City property if and when requested by City. Contractor’s response time will be no more than four (4) hours for work during business hours, which means between 8:00 A.M. and 5:00 P.M. Monday through Friday; four (4) hours for work after hours, which means between 5:01 P.M. and 7:59 A.M. Monday through Friday and weekends; and four (4) hours for work on a City-recognized holiday, which means a holiday for which City Hall is closed.

3. Costs and Payment. It is agreed by the parties that Contractor will be compensated for the foregoing Scope of Services as follows: Contractor will be paid according to the following hourly rates:

|                |          |
|----------------|----------|
|                | Year 1   |
| Business Hours | \$70.00  |
| After Hours    | \$120.00 |
| Holiday        | \$120.00 |

Contractor will not perform work after hours or on a City-recognized holiday without City’s prior written approval. Contractor will submit a monthly invoice for payment. Within thirty (30) days of City’s receipt and approval of an invoice, City will make payment to Contractor. Contractor will not perform work in excess of \$750.00 without City’s prior written approval. In no event will City be liable for overtime pay. Contractor will provide all labor, materials, and equipment.

4. Independent Contractor. This Agreement does not create an employer-employee relationship between the parties. Contractor is an independent contractor and is not entitled to any benefits including health, dental, vision, disability, life, and unemployment insurance, worker's compensation coverage, and LAGERS. Contractor is an independent contractor and not an employee for all purposes including the application of the Fair Labor Standards Act Minimum Wage and Overtime Payments, Federal Insurance Contribution Act, Social Security Act, Federal Unemployment Tax Act, and the provisions of the Internal Revenue Code, Missouri Revenue and Taxation Laws, and Missouri's Worker Compensation Laws and Unemployment Insurance Laws.

5. Amendments. The covenants and obligations herein contained are the full and complete terms of this Agreement, and no alteration, amendments, or changes to such terms shall be binding unless first reduced to writing and executed with the same formality as this Agreement.

6. Assignment. This Agreement, including payment hereunder, shall not be sub-let, assigned, or otherwise disposed of, except with the prior written consent of the City.

7. Attorney's Fees and Expenses. If City files suit in order to enforce any term of this Agreement and is the prevailing party, Contractor shall be liable for City's reasonable attorney's fees and expenses. In no event shall City be liable for Contractor's reasonable attorney's fees and expenses.

8. Binding Effect. This Agreement shall be binding upon the parties hereto, their heirs, executors, administrators, legal representatives, successors, and assigns, and shall be binding in the event of the death or legal disability of the parties. Provided, however, that nothing in this paragraph shall be construed as a consent by City to any assignment of this Agreement or any interest therein by Contractor.

9. Choice of Law and Venue. This Agreement has been made, and its validity, performance and effect shall be determined, in accordance with the laws of the State of Missouri and venue for litigation between the parties shall be solely and exclusively in Newton County, Missouri.

10. Compliance with Laws. Contractor shall observe and comply with all Federal, State, and local laws and ordinances that affect those employed or engaged by it on the project, or the material or equipment used, or the conduct of the work, and shall procure all necessary licenses, permits, and insurance.

11. Consequential Damages. In no event shall City be liable to Contractor for special, indirect, or consequential damages.

12. Contract Documents. The contract documents shall consist of the following: this Agreement, City's Request for Proposal, and Contractor's Response to City's Request for Proposal. In the event of conflict between the contract documents, this Agreement will prevail. In the event of conflict between City's Request for Proposal and Contractor's Response to City's Request for Proposal, City's Request for Proposal will prevail.



13. Entire Agreement. This Agreement (including any Exhibits) contains the entire understanding of the parties with respect to the subject matter hereof. It may not be altered or amended except by an agreement in writing signed by both parties.

14. Ethics. Contractor warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for Contractor, to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person, other than a bona fide employee working solely for Contractor, any fee, commission, gift, or contingent fee.

15. Headings. The headings of paragraphs in this Agreement are for convenience only. The headings form no part of this Agreement and shall not affect its interpretation.

16. Indemnification. Contractor hereby assumes all risk of, and responsibility for, and agrees to indemnify and save harmless City, from and against any and all claims, demands, suits, actions, recoveries, judgments, costs, and expenses, including reasonable attorney's fees and expenses, therewith made, brought or obtained on account of the loss of life or property or injury or damage to the person or property of any person or persons whomsoever, whether such person or persons be Contractor, its agents or employees, or City, its agents or employees, or any third-person in any way connected with the parties hereto, which loss of life or property, or injury or damage to persons or property, shall be due to, or arise out of, result from, or be in any way connected with, this Agreement.

17. Insurance. Contractor shall secure and maintain at its own cost and expense, throughout the duration of this Agreement, insurance of such types and in such amounts as may be necessary to protect it and the interests of City against all hazards or risks of loss as hereunder specified or which may arise out of the performance of this Agreement. Such policies shall name City as an additional insured, with limits of liability not less than the sovereign immunity limits for Missouri public entities calculated by the Missouri Department of Insurance as of January 1 each calendar year and published annually in the Missouri Register pursuant to Section 537.610, RSMo. (See, <http://insurance.mo.gov/industry/sovimunity.php>)

18. Intellectual Property. Intentionally omitted.

19. Non-Discrimination. In performance of the work covered by this Agreement, Contractor shall not discriminate against any worker because of race, creed, color, political affiliation, handicap, or national origin.

20. Notices. All notices required or permitted hereinunder and required to be in writing may be given by first class mail addressed to City and Contractor at the addresses as follows:

|                     |                         |
|---------------------|-------------------------|
| City of Neosho      | Jackson Sales & Service |
| ATTN: David Kennedy | ATTN: Craig Jackson     |
| 203 E. Main St.     | P.O. Box 327            |
| Neosho, MO 64850    | Neosho, MO 64850        |

The date of delivery of any notice given by mail shall be the date falling on the second full

day after the day of its mailing.

21. Payment for Labor and Materials. Contractor agrees and binds itself to pay for all labor done, and for all the materials used in the construction of the work to be completed pursuant to this contract.

22. Records and Audits. The Contractor shall maintain accounts and records, including personnel, property, and financial records, adequate to identify and account for all costs pertaining to the Contract and such other records as may be deemed necessary by the City to assure proper accounting for all project funds. These records will be made available for audit purposes to the City or any authorized representative, and will be retained for three years after the expiration of this Contract.

23. Representations. The signatories hereto represent and warrant that they have read this Agreement, that they are fully authorized in the capacities shown, that they understand the terms of this Agreement, and that they are executing the same voluntarily and solely for the consideration described herein.

24. Right to Proceed. In the event this contract is terminated pursuant to Paragraph 28, then the City may take over the work and prosecute the same to completion, by contract or otherwise, and Contractor and its sureties shall be liable to the City for any costs over the amount of this contract thereby occasioned by the City. In any such case, the City may take possession of, and utilize in completing the work, such materials, appliances and structures as may be on the work site and are necessary for completion of the work. The foregoing provisions are in addition to, and not in limitation of, the rights of the City under any other provisions of the contract, city ordinances, and state and federal laws.

25. Severability. If any of the provisions of this Agreement shall be construed to be invalid or illegal, the legality or validity of the other provisions of this Agreement shall not be affected thereby. Any illegal or invalid provision of this Agreement shall be severable and any other provisions shall remain in full force and effect.

26. Subcontractors. Contractor shall be as fully responsible to City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as Contractor is for the acts and omissions of persons it directly employs. Contractor shall cause appropriate provisions to be inserted in all subcontracts relating to this work, to bind all subcontractors to Contractor by all the terms herein set forth, and insofar as applicable to the work of subcontractors and to give Contractor the same power regarding termination of any subcontract as City may exercise over Contractor under any provisions of this Agreement. Nothing contained in this Agreement shall create any contractual relation between the subcontractor and City or between any subcontractors.

27. Subsurface Conditions. Contractor agrees that information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey shall be conclusive and binding upon the Contractor as to what subsurface conditions at the job site are reasonably anticipated or reasonably foreseeable. Contractor acknowledges and agrees that it shall

not be entitled to any adjustment in the Contract Sum or Contract Times for any concealed condition of any nature, including but not limited to unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, in addition to the information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey. Contractor recognizes that it has assumed the risks of concealed conditions and is being compensated for assuming these risks.

28. Termination. City reserves the right to terminate this contract by giving at least five (5) days prior written notice to Contractor, without prejudice to any other rights or remedies of City, should Contractor be adjudged bankrupt, or if Contractor should make a general assignment for the benefit of its creditors, or if a receiver should be appointed for Contractor or for any of its property, or if Contractor should persistently or repeatedly fail or refuse to supply enough properly skilled workmen or proper material, or if Contractor should fail or refuse to make prompt payment to any person supplying labor or materials for the work under the contract, or persistently disregard instructions of City or fail to observe or perform any provisions of the contract. City may terminate this Agreement, without cause, by giving Contractor thirty (30) days' written notice of the same.

29. Third-Party Beneficiaries. This Agreement shall not confer any rights or remedies upon any person other than the parties and their respective successors and permitted assigns.

30. Unauthorized Aliens. That pursuant to Missouri Revised Statute Sections 285.525 through 285.555, if this contract exceeds the amount of \$5,000.00 and Contractor is associated with a business entity, Contractor shall provide an acceptable notarized affidavit stating that the associated business entity is enrolled in and participates in a federal work authorization program with respect to the employees working in connection with the contracted services, and that said business entity does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Additionally, Contractor must provide documentation for said business entity evidencing current enrollment in a federal work authorization program.

31. Waiver. Waiver of any provision of this Agreement or breach of this Agreement shall not thereafter be deemed to be a consent by the waiving party to any further waiver, modification or breach by the other party, whether new or continuing, of the same or any other covenant, condition or provision of this Agreement. Failure by one of the parties to this Agreement to assert its rights for any breach of this Agreement shall not be deemed a waiver of such rights.

[Remainder of page intentionally left blank – signature page follows]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date shown below.

CITY OF NEOSHO, MISSOURI

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

\_\_\_\_\_  
Craig Jackson, Jackson Sales & Service

**BID FORM**

**Description:** (To be completed by bidding party)

Bid for labor to maintain & Repair any plumbing systems & devices for all city owned buildings and private homes I am called to Repair a City inflicted problems  
8-5 Monday through Friday Rate \$76.00 per hour \* p.p.  
Response time 1-4 hours. After hours & holidays will be \$140.00 per hour, p.p. Response time 1-4 hrs.

\* Second year will increase to \$71.00 Reg hours, \$142.00 per hour for after hours and weekends and holidays \*\* 3rd

**Price(s) for unit(s) meeting enclosed specifications:**

Year will increase to \$72.00 per hour, \$144.00 per hour for F.O.B. Neosho, MO after hours, weekends, holidays,  
Projected Shipping Date: \_\_\_\_\_

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Jackson Sales & Service  
**ADDRESS:** P.O. Box 327 Neosho, Mo 64850  
**PHONE:** 417-451-4587  
**EMAIL:** rvforgiven@gmail.com  
**BY:** Craig Jackson

## Plumbing Services

| Contractor           |  | Hourly Cost of Rep |  | Hourly Rate for Reg Bus Hrs.  |  | Response Time      |  | Hourly Rate for After Hours/Holidays |  | Response Time |
|----------------------|--|--------------------|--|-------------------------------|--|--------------------|--|--------------------------------------|--|---------------|
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
| Jackson Sales & Serv |  | \$70.00            |  | \$70.00                       |  | 1 - 4 hours        |  | \$140.00 / \$140.00                  |  | 1 - 4 hours   |
|                      |  |                    |  |                               |  | this is for 8 to 5 |  |                                      |  |               |
|                      |  |                    |  | This is for 1 year will go up |  |                    |  | This is for 1 year will to up        |  |               |
|                      |  |                    |  | second year to \$71.00        |  |                    |  | second year to \$142.00              |  |               |
|                      |  |                    |  | third year \$72.00            |  |                    |  | third year to \$144.00               |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
| Satterlee            |  | \$120              |  | \$120.00                      |  | 2 hours            |  | \$180.00 / \$220.00                  |  | 2 hours       |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |
|                      |  |                    |  |                               |  |                    |  |                                      |  |               |

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Bill No. 2024-79: Agreement with Henson Electric for City-Wide Electrical Services

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**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Bill No. 2024-79 Authorizing Henson Electric Service Contract
  2. Contract Henson Electric independent contractor agreement RE city wide electrical services
  3. Electric Services
  4. Electric Services Bid
- 

**PURPOSE:**

To approve a three year contract with Henson Electric for city-wide electrical services.

**BACKGROUND:**

During the August 20, 2024 council meeting, council approved Henson Electric for city-wide electrical services. This will be a three year contract.

**RECOMMENDATION:**

Staff recommends approval of the agreement with Henson Electric for electrical services.

**AN ORDINANCE authorizing the City of Neosho, Missouri, to enter into an Agreement with Toby Henson, d/b/a Henson Electric for the purpose of providing electrical services; and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.**

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That the Agreement by and between the City of Neosho, Missouri, and Toby Henson, d/b/a Henson Electric for the purpose of providing electrical services, a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

**Section 2.** That the Mayor of the City of Neosho, Missouri, is hereby authorized and directed to execute said Agreement by and on behalf of the City of Neosho.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney



## INDEPENDENT CONTRACTOR AGREEMENT

This AGREEMENT is entered into this \_\_\_\_\_ day of October, 2024, by and between the City of Neosho, Missouri (hereinafter “City”), and Toby Henson, d/b/a, Henson Electric (hereinafter “Contractor”), and with City and Contractor being referred to collectively as the “parties.”

WHEREAS, City desires to engage an independent contractor for the purpose of providing electrical services; and

WHEREAS, Contractor desires to be engaged as an independent contractor for the purpose of providing electrical services.

NOW THEREFORE, the parties do hereby agree as follows:

1. Term. The term of this Agreement is from October 1, 2024 through September 30, 2025, unless terminated as provided herein.

2. Contractor’s Services. Contractor agrees to diligently perform in a professional and workmanlike manner the scope of services specified in City’s Request for Proposal, attached hereto and incorporated by reference as Exhibit A, and Contractor’s Response to City’s Request for Proposal, attached hereto and incorporated by reference as Exhibit B. Specifically, Contractor agrees to provide electrical services for the routine maintenance, repair, and replacement of City property if and when requested by City. Contractor’s response time will be no more than forty (40) minutes for work during business hours, which means between 7:00 A.M. and 3:30 P.M. Monday through Friday; forty (40) minutes for work after hours, which means between 3:31 P.M. and 6:59 A.M. Monday through Friday and weekends; and forty (40) minutes for work on a City-recognized holiday, which means a holiday for which City Hall is closed.

3. Costs and Payment. It is agreed by the parties that Contractor will be compensated for the foregoing Scope of Services as follows: Contractor will be paid according to the following hourly rates: \$50.00 per hour for work during business hours; \$68.00 per hour for work after hours; and \$68.00 per hour for work on a City-recognized holiday. Contractor will not perform work after hours or on a City-recognized holiday without City’s prior written approval. Contractor will submit a monthly invoice for payment. Within thirty (30) days of City’s receipt and approval of an invoice, City will make payment to Contractor. Contractor will not perform work in excess of \$750.00 without City’s prior written approval. In no event will City be liable for overtime pay. Contractor will provide all labor, materials, and equipment.

4. Independent Contractor. This Agreement does not create an employer-employee relationship between the parties. Contractor is an independent contractor and is not entitled to any benefits including health, dental, vision, disability, life, and unemployment insurance, worker’s compensation coverage, and LAGERS. Contractor is an independent contractor and not an employee for all purposes including the application of the Fair Labor Standards Act Minimum Wage and Overtime Payments, Federal Insurance Contribution Act, Social Security Act, Federal Unemployment Tax Act, and the provisions of the Internal Revenue Code, Missouri Revenue and

Taxation Laws, and Missouri's Worker Compensation Laws and Unemployment Insurance Laws.

5. Amendments. The covenants and obligations herein contained are the full and complete terms of this Agreement, and no alteration, amendments, or changes to such terms shall be binding unless first reduced to writing and executed with the same formality as this Agreement.

6. Assignment. This Agreement, including payment hereunder, shall not be sub-let, assigned, or otherwise disposed of, except with the prior written consent of the City.

7. Attorney's Fees and Expenses. If City files suit in order to enforce any term of this Agreement and is the prevailing party, Contractor shall be liable for City's reasonable attorney's fees and expenses. In no event shall City be liable for Contractor's reasonable attorney's fees and expenses.

8. Binding Effect. This Agreement shall be binding upon the parties hereto, their heirs, executors, administrators, legal representatives, successors, and assigns, and shall be binding in the event of the death or legal disability of the parties. Provided, however, that nothing in this paragraph shall be construed as a consent by City to any assignment of this Agreement or any interest therein by Contractor.

9. Choice of Law and Venue. This Agreement has been made, and its validity, performance and effect shall be determined, in accordance with the laws of the State of Missouri and venue for litigation between the parties shall be solely and exclusively in Newton County, Missouri.

10. Compliance with Laws. Contractor shall observe and comply with all Federal, State, and local laws and ordinances that affect those employed or engaged by it on the project, or the material or equipment used, or the conduct of the work, and shall procure all necessary licenses, permits, and insurance.

11. Consequential Damages. In no event shall City be liable to Contractor for special, indirect, or consequential damages.

12. Contract Documents. The contract documents shall consist of the following: this Agreement, City's Request for Proposal, and Contractor's Response to City's Request for Proposal. In the event of conflict between the contract documents, this Agreement will prevail. In the event of conflict between City's Request for Proposal and Contractor's Response to City's Request for Proposal, City's Request for Proposal will prevail.

13. Entire Agreement. This Agreement (including any Exhibits) contains the entire understanding of the parties with respect to the subject matter hereof. It may not be altered or amended except by an agreement in writing signed by both parties.

14. Ethics. Contractor warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for Contractor, to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person, other than a bona fide

employee working solely for Contractor, any fee, commission, gift, or contingent fee.

15. Headings. The headings of paragraphs in this Agreement are for convenience only. The headings form no part of this Agreement and shall not affect its interpretation.

16. Indemnification. Contractor hereby assumes all risk of, and responsibility for, and agrees to indemnify and save harmless City, from and against any and all claims, demands, suits, actions, recoveries, judgments, costs, and expenses, including reasonable attorney's fees and expenses, therewith made, brought or obtained on account of the loss of life or property or injury or damage to the person or property of any person or persons whomsoever, whether such person or persons be Contractor, its agents or employees, or City, its agents or employees, or any third-person in any way connected with the parties hereto, which loss of life or property, or injury or damage to persons or property, shall be due to, or arise out of, result from, or be in any way connected with, this Agreement.

17. Insurance. Contractor shall secure and maintain at its own cost and expense, throughout the duration of this Agreement, insurance of such types and in such amounts as may be necessary to protect it and the interests of City against all hazards or risks of loss as hereunder specified or which may arise out of the performance of this Agreement. Such policies shall name City as an additional insured, with limits of liability not less than the sovereign immunity limits for Missouri public entities calculated by the Missouri Department of Insurance as of January 1 each calendar year and published annually in the Missouri Register pursuant to Section 537.610, RSMo. (See, <http://insurance.mo.gov/industry/sovimunity.php>)

18. Intellectual Property. Intentionally omitted.

19. Non-Discrimination. In performance of the work covered by this Agreement, Contractor shall not discriminate against any worker because of race, creed, color, political affiliation, handicap, or national origin.

20. Notices. All notices required or permitted hereinunder and required to be in writing may be given by first class mail addressed to City and Contractor at the addresses as follows:

|                     |                     |
|---------------------|---------------------|
| City of Neosho      | Henson Electric     |
| ATTN: David Kennedy | ATTN: Toby Henson   |
| 203 E. Main St.     | 376 Elk View Lane   |
| Neosho, MO 64850    | Pineville, MO 64856 |

The date of delivery of any notice given by mail shall be the date falling on the second full day after the day of its mailing.

21. Payment for Labor and Materials. Contractor agrees and binds itself to pay for all labor done, and for all the materials used in the construction of the work to be completed pursuant to this contract.

22. Records and Audits. The Contractor shall maintain accounts and records, including

personnel, property, and financial records, adequate to identify and account for all costs pertaining to the Contract and such other records as may be deemed necessary by the City to assure proper accounting for all project funds. These records will be made available for audit purposes to the City or any authorized representative, and will be retained for three years after the expiration of this Contract.

23. Representations. The signatories hereto represent and warrant that they have read this Agreement, that they are fully authorized in the capacities shown, that they understand the terms of this Agreement, and that they are executing the same voluntarily and solely for the consideration described herein.

24. Right to Proceed. In the event this contract is terminated pursuant to Paragraph 28, then the City may take over the work and prosecute the same to completion, by contract or otherwise, and Contractor and its sureties shall be liable to the City for any costs over the amount of this contract thereby occasioned by the City. In any such case, the City may take possession of, and utilize in completing the work, such materials, appliances and structures as may be on the work site and are necessary for completion of the work. The foregoing provisions are in addition to, and not in limitation of, the rights of the City under any other provisions of the contract, city ordinances, and state and federal laws.

25. Severability. If any of the provisions of this Agreement shall be construed to be invalid or illegal, the legality or validity of the other provisions of this Agreement shall not be effected thereby. Any illegal or invalid provision of this Agreement shall be severable and any other provisions shall remain in full force and effect.

26. Subcontractors. Contractor shall be as fully responsible to City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as Contractor is for the acts and omissions of persons it directly employs. Contractor shall cause appropriate provisions to be inserted in all subcontracts relating to this work, to bind all subcontractors to Contractor by all the terms herein set forth, and insofar as applicable to the work of subcontractors and to give Contractor the same power regarding termination of any subcontract as City may exercise over Contractor under any provisions of this Agreement. Nothing contained in this Agreement shall create any contractual relation between the subcontractor and City or between any subcontractors.

27. Subsurface Conditions. Contractor agrees that information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey shall be conclusive and binding upon the Contractor as to what subsurface conditions at the job site are reasonably anticipated or reasonably foreseeable. Contractor acknowledges and agrees that it shall not be entitled to any adjustment in the Contract Sum or Contract Times for any concealed condition of any nature, including but not limited to unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, in addition to the information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey. Contractor recognizes that it has assumed the risks of concealed conditions and is being compensated for assuming these risks.

28. Termination. City reserves the right to terminate this contract by giving at least five (5) days prior written notice to Contractor, without prejudice to any other rights or remedies of City, should Contractor be adjudged bankrupt, or if Contractor should make a general assignment for the benefit of its creditors, or if a receiver should be appointed for Contractor or for any of its property, or if Contractor should persistently or repeatedly fail or refuse to supply enough properly skilled workmen or proper material, or if Contractor should fail or refuse to make prompt payment to any person supplying labor or materials for the work under the contract, or persistently disregard instructions of City or fail to observe or perform any provisions of the contract. City may terminate this Agreement, without cause, by giving Contractor thirty (30) days' written notice of the same.

29. Third-Party Beneficiaries. This Agreement shall not confer any rights or remedies upon any person other than the parties and their respective successors and permitted assigns.

30. Unauthorized Aliens. That pursuant to Missouri Revised Statute Sections 285.525 through 285.555, if this contract exceeds the amount of \$5,000.00 and Contractor is associated with a business entity, Contractor shall provide an acceptable notarized affidavit stating that the associated business entity is enrolled in and participates in a federal work authorization program with respect to the employees working in connection with the contracted services, and that said business entity does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Additionally, Contractor must provide documentation for said business entity evidencing current enrollment in a federal work authorization program.

31. Waiver. Waiver of any provision of this Agreement or breach of this Agreement shall not thereafter be deemed to be a consent by the waiving party to any further waiver, modification or breach by the other party, whether new or continuing, of the same or any other covenant, condition or provision of this Agreement. Failure by one of the parties to this Agreement to assert its rights for any breach of this Agreement shall not be deemed a waiver of such rights.

[Remainder of page intentionally left blank – signature page follows]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date shown below.

CITY OF NEOSHO, MISSOURI

---

Richard Davidson, Mayor

ATTEST:

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Cheyenne Wright, City Clerk

APPROVED AS TO FORM:

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Derek A. Snyder, City Attorney

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Toby Henson, Henson Electric

## Electric Services

| Contractor          |  | Hourly Cost of Rep |  | Hourly Rate for Reg Bus Hrs. |  | Response Time |  | Hourly Rate for After Hours/Holidays |  | Response Time       |
|---------------------|--|--------------------|--|------------------------------|--|---------------|--|--------------------------------------|--|---------------------|
|                     |  |                    |  |                              |  |               |  |                                      |  |                     |
| Henson Electric     |  | \$50.00            |  | \$50.00                      |  | 40 Minutes    |  | \$68.00 / \$68.00                    |  | 40 Minutes          |
|                     |  |                    |  |                              |  |               |  |                                      |  | Response time will  |
|                     |  |                    |  |                              |  |               |  |                                      |  | probably less but   |
|                     |  |                    |  |                              |  |               |  |                                      |  | no more than 40 min |
|                     |  |                    |  |                              |  |               |  |                                      |  |                     |
| Premier Contracting |  | \$65.00 (Per Man)  |  | \$65.00 (Per Man)            |  | 1 Hour        |  | \$75.00 / \$100 (per Man)            |  | 1 hour              |
|                     |  |                    |  |                              |  |               |  | Weekend: \$80.00 Saturday Per Man    |  | 1 hour              |
|                     |  |                    |  |                              |  |               |  | Weekend: \$90.00 Sunday Per Man      |  | 1 hour              |
|                     |  |                    |  |                              |  |               |  |                                      |  |                     |
| Bill's Electric     |  | \$75.00 (per man)  |  | \$75.00 (per man)            |  | 1 1/2 Hour    |  | \$112.500 / \$200.00 (per man)       |  | 1 hour              |
|                     |  |                    |  |                              |  |               |  |                                      |  |                     |
|                     |  |                    |  |                              |  |               |  |                                      |  |                     |
|                     |  |                    |  |                              |  |               |  |                                      |  |                     |
|                     |  |                    |  |                              |  |               |  |                                      |  |                     |

**BID FORM**

**Description:** (To be completed by bidding party)

Hourly cost of Labor for Repairs \$ 50<sup>00</sup>/HR  
Hourly Rate For Regular Business hours AND Response Time :  
\$ 50<sup>00</sup>/HR 40 minutes  
Hourly Rate For After Hours & Response Time \$ 68<sup>00</sup>/HR 40 minutes  
Hourly Rate For Holiday Hours & Response Time \$ 68<sup>00</sup>/HR 40 minutes  
Response Times will probably be Less But NOT MORE !!

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: \_\_\_\_\_

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

COMPANY: HENSON ELECTRIC  
ADDRESS: 376 Elk View Lane, Pineville, Mo 64856  
PHONE: 785-304-1533 , 417-223-4507  
EMAIL: hensonelectric.th@gmail.com  
BY: Toby Henson



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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Bill No. 2024-80: MODOT Hazardous Moving Violation Grant\_Police Department

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**ORIGINATING DEPARTMENT:** Police Department

**ATTACHMENT:**

1. Bill No. 2024-80 Hazardous Moving Violation Grant\_MODOT HMV
  2. MODOT HMV Contract FY25
- 

**PURPOSE:**

Approve the Police Chief and Police Lieutenant to sign the HMV MoDot contract by DocuSign.

**BACKGROUND:**

At the last meeting, the Neosho City Council approved the police department to apply for the MoDot HMV grant. Attached is the actual contract that requires the Police Chief's and Police Lieutenant's signature.

**RECOMMENDATION:**

Allow the Police Chief and Police Lieutenant to proceed with signing the contracts via DocuSign.

**AN ORDINANCE authorizing the City of Neosho, Missouri, to enter into an Agreement with the Missouri Department of Transportation Highway Safety and Traffic Division, for the purpose of applying for a Hazardous Moving Violation (HMV) grant related to the Neosho Police Department; and authorizing the Police Chief to execute the same by and on behalf of the City of Neosho.**

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That the Agreement by and between the City of Neosho, Missouri, and the Missouri Department of Transportation Highway Safety and Traffic Division, a political subdivision of the State of Missouri, for the purpose of applying for a Hazardous Moving Violation (HMV) grant related to the Neosho Police Department, a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

**Section 2.** That the Police Chief of the City of Neosho, Missouri, is hereby authorized and directed to execute said Agreement by and on behalf of the City of Neosho.

**Section 3.** That this Ordinance shall be in full force and effect from and after its passage.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

# CONTRACT

Form HS-1

Revision Reason: Other

Version: 2

06/03/2024

**Missouri Department of Transportation**  
**Highway Safety and Traffic Division**  
P.O. Box 270  
830 MoDOT Drive  
Jefferson City, MO 65102  
**Phone:** 573-751-4161  
**Fax:** 573-634-5977

**Project Title:** HMV Enforcement  
**Project Number:** 25-PT\*-02-052  
**Project Category:** Traffic Enforcement Services  
**Program Area:** State and Community Programs

**Funding Source:** 402 / 20.600

**Type of Project:** Initial

**Started:** 10/01/2024

| Federal Funds Benefiting |            |
|--------------------------|------------|
| <b>State:</b>            |            |
| <b>Local:</b>            | \$9,180.00 |
| <b>Total:</b>            | \$9,180.00 |

| Source of Funds |            |
|-----------------|------------|
| <b>Federal:</b> | \$9,180.00 |
| <b>State:</b>   |            |
| <b>Local:</b>   | \$0.00     |
| <b>Total:</b>   | \$9,180.00 |

**Prepared By**  
Van Loo, Tara

**Name of Grantee**  
Neosho Police Dept.

**Grantee County**  
Newton

**Grantee Address**  
201 N College Street  
  
Neosho, MO 648501469

**Telephone**  
417-451-8012

**Fax**  
417-451-8008

**Contract Period**  
**Effective:** 10/01/2024  
**Through:** 09/30/2025

\_\_\_\_\_  
**Subrecipient Authorizing Official**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Subrecipient Project Director**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**MHTC Authorizing Official**

\_\_\_\_\_  
**Date**

It is mutually agreed by the parties executing this contract to the following: the reimbursable costs shall not exceed the **total obligated amount of \$9,180.00**; the recipient of funds shall proceed with the implementation of the program as detailed in attached forms (which become part of this agreement) and shall adhere to conditions specified in attachments (which become part of this agreement); all Federal and State of Missouri laws and regulations are applicable and any addendums or conditions thereto shall be binding; any facilities and/or equipment acquired in the connection with this agreement shall be used and maintained for highway safety purposes; the recipient of funds must comply with the Title VI of the Civil Rights Act of 1964, and the Federal Funds from other sources, excluding Federal Revenue Sharing Funds, will not be used to match the Federal funds obligated to this project.

**IN ORDER TO RECEIVE FEDERAL FUNDING, THE SUBRECIPIENT AGREES TO COMPLY WITH THE FOLLOWING CONDITIONS IN ADDITION TO THOSE OUTLINED IN THE NARRATIVE OF THE CONTRACT.**

**I. RELATIONSHIP**

The relationship of the Subrecipient to the Missouri Highways and Transportation Commission (MHTC) shall be that of an independent contractor, not that of a joint enterpriser. The Subrecipient shall have no authority to bind the MHTC for any obligation or expense without the express prior written approval of the MHTC. This agreement is made for the sole benefit of the parties hereto and nothing in the Agreement shall be construed to give any rights or benefits to anyone other than the MHTC and the Subrecipient.

**II. GENERAL REQUIREMENTS**

The State and each subrecipient will comply with applicable statutes and regulations, including but not limited to:

- 23 U.S.C. Chapter 4 - Highway Safety Act of 1966, as amended
- Sec. 1906, Pub. L. 109-59, as amended by Sec. 25024, Pub. L. 117-58
- 23 CFR part 1300 - Uniform Procedures for State Highway Safety Grant Programs
- 2 CFR part 200 - Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards
- 2 CFR part 1201 - Department of Transportation, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards

**III. INTERGOVERNMENTAL REVIEW OF FEDERAL PROGRAMS**

The State has submitted appropriate documentation for review to the single point of contact designated by the Governor to review Federal programs, as required by Executive Order 12372 (Intergovernmental Review of Federal Programs).

**IV. EQUIPMENT AND SOFTWARE**

**A. PROCUREMENT:** Subrecipient's may adhere to its own procurement regulations and procedures which reflect applicable state/local laws, rules, and regulations provided such regulations and procedures adhere to the following State's procurement regulations and procedures:

1. Have a process in place to ensure that contracts are not awarded to contractors or individuals on a federal and/or state debarment list.
2. All procurement transactions whether negotiated or competitively bid and without regard to dollar value shall be conducted in a manner so as to provide maximum open and free competition.
3. All quotations and the rationale behind the selection of a source of supply must be retained, attached to the purchase order copy (as applicable), and placed in the accounting files.
4. Purchases to a single vendor estimated to total less than \$10,000 may be purchased with prudence on the open market.
5. Purchases to a single vendor estimated to total \$10,000 or more but less than \$100,000 must be competitively bid, or purchased through use of a state cooperative procurement, but need not be solicited by mail or advertisement.
6. Purchases to a single vendor estimated to total \$100,000 or more must:
  1. be advertised for bid in at least two daily newspapers of general circulation in such places as are most likely to reach prospective bidders (and may advertise in at least two weekly minority newspapers and may provide such information through an electronic medium available to the general public) at least five days before bids for such purchases are to be opened;
  2. post a notice of the proposed purchase in a public area of the Subrecipient's office ; and
  3. solicit bids by mail or other reasonable methods generally available to the public from prospective suppliers.
7. Subrecipients will make a good faith effort to utilize minority and women owned businesses within resource capabilities when procuring goods and services, and that all necessary affirmative steps are taken to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible (2 CFR PART 200.322)
8. Subrecipients will make every effort to purchase equipment as early in the fiscal year as possible . Equipment purchased late in the fiscal year risks not being reimbursed unless extenuating circumstances are encountered (i.e. supply chain shortages).

**B. DISPOSITION:** The Subrecipient shall make written request to the MHTC for instructions on the proper disposition of all items of equipment provided under the terms of this contract with a cost of \$5,000 or more. The MHTC will notify the subrecipient when an item of original cost of \$5,000 or more (and tracked by the MHTC as inventory) is no longer being

tracked and may be disposed of. Subrecipient must keep and maintain equipment with a cost of under \$5,000 until it is no longer useful for its originally intended purpose.

**C. REPLACEMENT:** No equipment may be funded on a replacement basis. Participation in equipment and manpower projects must be in addition to the Subrecipient's previous twelve months authorized strength.

**V. FISCAL RESPONSIBILITY**

- A. MAINTENANCE OF RECORDS:** The Subrecipient agrees that the Commission and/or its designees or representatives shall have access to all records related to the grant. The Subrecipient further agrees that the Missouri Department of Transportation (MoDOT) Highway Safety and Traffic (HS) Division, the National Highway Traffic Safety Administration (NHTSA), the Federal Highway Administration (FHWA) and/or any Federal audit agency with jurisdiction over this program and the Auditor of the State of Missouri or any of their duly authorized representatives may have access, for purpose of audit and examinations, to any books, documents, papers or records maintained by the Subrecipient pertaining to this contract and further agrees to maintain such books and records for a period of three (3) years following date of final payments.
- B. REIMBURSEMENT VOUCHER, SUPPORTING DOCUMENTATION AND PAYMENT SCHEDULE:** The MHTC agrees to reimburse the Subrecipient for accomplishment of all authorized activities performed under this contract. Reimbursement proceedings will be initiated upon the receipt of a claim voucher and supporting documentation from the Subrecipient, as required by the MHTC. The voucher must reflect actual costs and work accomplished during the project period, to be submitted on the appropriate MHTC certified payroll form or in a format approved by the MHTC, and shall include project number, project period, hours worked, rate of pay, any other allowable expenditures, and must be signed by the person preparing the voucher and the project director or authorizing official. Vouchers should be received by the MHTC within ten (10) working days from the date of the authorizing official/project director's signature. Subrecipient should report monthly, or at least quarterly, to MHTC using the online Grant Management System. For projects where salaried positions are awarded, claim voucher and activity reports must be submitted *monthly*. Subrecipient must ensure complete, accurate and final voucher and supporting documentation is received by the MHTC no later than November 15, which is after the end of the Federal fiscal year for which the final voucher pertains. Final payment is contingent upon receipt of the complete, accurate and final voucher.
- C. ACCOUNTING:** The Subrecipient shall maintain all documentation in file for audit review; failure to provide supporting documentation at the time of audit could result in questioned costs. The Subrecipient must document the following: (1) Receipt of federal funds, (2) date and amount paid to employees, (3) employee's timesheet (regular hours and overtime hours). Documentation shall be kept available for inspection for representatives of the MHTC for a period of three years following date of final payments. Copies of such records shall be made available upon request.
- D. OMB AUDIT:** A subrecipient that expends \$750,000 or more during the subrecipient's fiscal year in Federal awards must have a single audit conducted in accordance with §200.514 Scope of audit except when it elects to have a program-specific audit conducted in accordance with paragraph (c) of 2 CFR §200.501. A copy of the Audit report shall be submitted to MoDOT within the earlier of thirty (30) days after receipt of the auditor's report(s), or nine (9) months after the end of the audit period. A subrecipient that expends less than \$750,000 during the subrecipient's fiscal year in Federal awards is exempt from Federal audit requirements for that year, except as noted in 2 CFR §200.503 Relation to other audit requirements, but records must be available for review or audit by appropriate officials of the Federal agency, pass-through entity, and Government Accountability Office (GAO). Failure to furnish an acceptable audit may be basis for refunding federal funds to the MHTC. Cost records and accounts pertaining to the work covered by this contract shall be kept available for inspection for representatives of the MHTC for a period of three (3) years following date of final payments. Copies of such records shall be made available upon request.

**VI. FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT (FFATA)**

The State will comply with FFATA guidance, OMB Guidance on FFATA Subaward and Executive Compensation Reporting, August 27, 2010,

([https://www.fsrs.gov/documents/OMB\\_Guidance\\_on\\_FFATA\\_Subaward\\_and\\_Executive\\_Compensation\\_Reporting\\_08272010.pdf](https://www.fsrs.gov/documents/OMB_Guidance_on_FFATA_Subaward_and_Executive_Compensation_Reporting_08272010.pdf)) by reporting to FSRS.gov for each sub-grant awarded:

- A.** Name of the entity receiving the award;
- B.** Amount of the award;
- C.** Information on the award including transaction type, funding agency, the North American Industry Classification System code or Catalog of Federal Domestic Assistance (or "Assistance Listings") number (where applicable), program source;

- D. Location of the entity receiving the award and the primary location of performance under the award, including the city, State, congressional district, and country; and an award title descriptive of the purpose of each funding action;
- E. Unique entity identifier (generated by *SAM.gov*);
- F. The names and total compensation of the five most highly compensated officers of the entity if :
  - A. the entity in the preceding fiscal year received-
    - a. 80 percent or more of its annual gross revenues in Federal awards;
    - b. \$25,000,000 or more in annual gross revenues from Federal awards; and
  - B. the public does not have access to information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986;
- G. Other relevant information specified by OMB guidance.

**VII. TERMINATION**

If, through any cause, the Subrecipient shall fail to fulfill in timely and proper manner its obligation under this contract, or if the Subrecipient shall violate any of the covenants, agreements or stipulations of this contract, the MHTC shall thereupon have the right to terminate this contract and withhold further payment of any kind by giving written notice to the Subrecipient of such termination and specifying the effective date thereof, at least thirty (30) days before such date. The MHTC shall be the sole arbitrator of whether the Subrecipient or its subcontractor is performing its work in a proper manner with reference to the quality of work performed by the Subrecipient -or its subcontractor under the provisions of this contract, if an award no longer effectuates the program goals or MHTC priorities. The Subrecipient and the MHTC further agree that this contract may be terminated by either party by giving written notice of such termination and specifying the effective date thereof, at least thirty (30) days before such date, and in the case of partial termination the portion of the award to be terminated.

**VIII. NONDISCRIMINATION**

**(Applies to subrecipients as well as States)**

The State highway safety agency will comply with all Federal statutes and implementing regulations relating to nondiscrimination ("Federal Nondiscrimination Authorities"). These include but are not limited to:

- **Title VI of the Civil Rights Act of 1964** (42 U.S.C. 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- **49 CFR part 21** (entitled Non-discrimination in Federally-Assisted Programs of the Department of Transportation-Effectuation of Title VI of the Civil Rights Act of 1964); **28 CFR 50.3** (U.S. Department of Justice Guidelines for Enforcement of Title VI of the Civil Rights Act of 1964);
- **The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970**, (42 U.S.C. 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- **Federal-Aid Highway Act of 1973**, (23 U.S.C. 324 *et seq.*), and **Title IX of the Education Amendments of 1972**, as amended (20 U.S.C. 1681-1683 and 1685-1686) (prohibit discrimination on the basis of sex);
- **Section 504 of the Rehabilitation Act of 1973**, (29 U.S.C. 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability) and 49 CFR part 27;
- **The Age Discrimination Act of 1975**, as amended, (42 U.S.C. 6101 *et seq.*), (prohibits discrimination on the basis of age);
- **The Civil Rights Restoration Act of 1987**, (Pub. L. 100-209), (broadens scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal aid recipients, sub-recipients and contractors, whether such programs or activities are Federally-funded or not);
- **Titles II and III of the Americans with Disabilities Act** (42 U.S.C. 12131-12189) (prohibits discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing) and 49 CFR parts 37 and 38;
- **Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations** (prevents discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations);

- **Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency** (guards against Title VI national origin discrimination/discrimination because of limited English proficiency (LEP) by ensuring that funding recipients take reasonable steps to ensure that LEP persons have meaningful access to programs (70 FR at 74087 to 74100);
- **Executive Order 13985, Advancing Racial Equity and Support for Underserved Communities through the Federal Government** (advancing equity across the Federal Government); and
- **Executive Order 13988, Preventing and Combating Discrimination on the Basis of Gender Identity or Sexual Orientation** (clarifying that sex discrimination includes discrimination on the grounds of gender identity or sexual orientation).

The preceding statutory and regulatory cites hereinafter are referred to as the "Acts" and "Regulations," respectively.

#### General Assurances

In accordance with the Acts, the Regulations, and other pertinent directives, circulars, policy, memoranda, and/or guidance, the Recipient hereby gives assurance that it will promptly take any measures necessary to ensure that:

*"No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity, for which the Recipient receives Federal financial assistance from DOT, including NHTSA."*

The Civil Rights Restoration Act of 1987 clarified the original intent of Congress, with respect to Title VI of the Civil Rights Act of 1964 and other non-discrimination requirements (the Age Discrimination Act of 1975, and Section 504 of the Rehabilitation Act of 1973), by restoring the broad, institutional-wide scope and coverage of these nondiscrimination statutes and requirements to include all programs and activities of the Recipient, so long as any portion of the program is Federally assisted.

#### Specific Assurances

More specifically, and without limiting the above general Assurance, the Recipient agrees with and gives the following Assurances with respect to its Federally assisted Highway Safety Grant Program:

- A. The Recipient agrees that each "activity," "facility," or "program," as defined in § 21.23(b) and (e) of 49 CFR part 21 will be (with regard to an "activity") facilitated, or will be (with regard to a "facility") operated, or will be (with regard to a "program") conducted in compliance with all requirements imposed by, or pursuant to the Acts and the Regulations.
- B. The Recipient will insert the following notification in all solicitations for bids, Requests For Proposals for work, or material subject to the Acts and the Regulations made in connection with all Highway Safety Grant Programs and, in adapted form, in all proposals for negotiated agreements regardless of funding source:  
*"The [name of Recipient], in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award."*
- C. The Recipient will insert the clauses of appendix A and E of DOT Order 1050.2A in every contract or agreement subject to the Acts and the Regulations.
- D. The Recipient will insert the clauses of appendix B of DOT Order 1050.2A, as a covenant running with the land, in any deed from the United States effecting or recording a transfer of real property, structures, use, or improvements thereon or interest therein to a Recipient.
- E. That where the Recipient receives Federal financial assistance to construct a facility, or part of a facility, the Assurance will extend to the entire facility and facilities operated in connection therewith.
- F. That where the Recipient receives Federal financial assistance in the form of, or for the acquisition of, real property or an interest in real property, the Assurance will extend to rights to space on, over, or under such property.

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- G. That the Recipient will include the clauses set forth in appendix C and appendix D of DOT Order 1050.2A, as a covenant running with the land, in any future deeds, leases, licenses, permits, or similar instruments entered into by the Recipient with other parties:
  - 1. for the subsequent transfer of real property acquired or improved under the applicable activity, project, or program; and
  - 2. for the construction or use of, or access to, space on, over, or under real property acquired or improved under the applicable activity, project, or program.
- H. That this Assurance obligates the Recipient for the period during which Federal financial assistance is extended to the program, except where the Federal financial assistance is to provide, or is in the form of, personal property, or real property, or interest therein, or structures or improvements thereon, in which case the Assurance obligates the Recipient, or any transferee for the longer of the following periods:
  - 1. the period during which the property is used for a purpose for which the Federal financial assistance is extended, or for another purpose involving the provision of similar services or benefits; or
  - 2. the period during which the Recipient retains ownership or possession of the property.
- I. The Recipient will provide for such methods of administration for the program as are found by the Secretary of Transportation or the official to whom he/she delegates specific authority to give reasonable guarantee that it, other recipients, sub-recipients, sub-grantees, contractors, subcontractors, consultants, transferees, successors in interest, and other participants of Federal financial assistance under such program will comply with all requirements imposed or pursuant to the Acts, the Regulations, and this Assurance.
- J. The Recipient agrees that the United States has a right to seek judicial enforcement with regard to any matter arising under the Acts, the Regulations, and this Assurance.

### IX. **STATUTORY AND REGULATORY REQUIREMENTS**

#### A. **COMPLIANCE:** The Subrecipient must comply with the following Statutes or Rules:

- 1. Peace Officer Standards and Training (P.O.S.T.) Chapter 590 RSMo Department of Public Safety (DPS) certification of peace officers
- 2. Crash Reporting Chapter 43.250 RSMo - Law enforcement officers to file all crash reports with Missouri State Highway Patrol (MSHP).
- 3. Uniform Crime Reporting Chapter 43.505 RSMo - Crime incident reports shall be submitted to DPS on forms or in format prescribed by DPS.
- 4. Racial Profiling Chapter 590.650 RSMo - Law enforcement agency to file a report to the Attorney General each calendar year.
- 5. US DOT AND OMB REGULATIONS: The Subrecipient shall comply with all requirements of 2 CFR Parts 200 and 1201.

- X. **PRODUCTION & DEVELOPMENT COSTS** Items produced with federal funds are within the public domain and are not bound by copyright restrictions. All items produced with federal funds, in whole or in part, must acknowledge this by clearly indicating that MoDOT Highway Safety and Traffic funding supported this effort. Examples may include, but are not limited to, print materials; audio/video productions; and training aides such as curricula or workbooks. Any materials developed under this contract must be submitted to the MHTC for approval prior to final print and distribution. Copies of all final products are to be provided to the MHTC. The MHTC has the right to reproduce and distribute materials as the MHTC deems appropriate.

- XI. **INDEMNIFICATION** Option 1 below only applies to State agencies, Cities, Counties and other political subdivisions or political corporations of the State of Missouri. Option 2 applies to all other entities (e.g. non-profit, private institutions).

#### **OPTION 1:**

- A. To the extent allowed or imposed by law, the Subrecipient shall defend, indemnify and hold harmless the MHTC, including its members and MoDOT employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the Subrecipient's wrongful or negligent performance of its obligations under this Agreement. The Subrecipient may satisfy this requirement utilizing a self-funded program.
- B. The Subrecipient will require any contractor procured by the Subrecipient to work under this Agreement :
  - 1. To obtain a no cost permit from the MHTC's district engineer prior to working on the MHTC's right-of-way, which shall be signed by an authorized contractor representative (a permit from the MHTC's district engineer will not be required for work outside of the MHTC's right-of-way); and



2. To carry commercial general liability insurance and commercial automobile liability insurance from a company authorized to issue insurance in Missouri, and to name the MHTC, and the MoDOT and its employees, as additional named insured's in amounts sufficient to cover the sovereign immunity limits for Missouri public entities as calculated by the Missouri Department of Insurance, Financial Institutions and Professional Registration, and published annually in the Missouri Register pursuant to Section 537.610, RSMo.
- C. In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either party's rights or defenses with regard to each party's applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitution or law.

**OPTION 2:**

The Subrecipient shall defend, indemnify and hold harmless the MHTC, including its members and the MoDOT employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the Subrecipient's performance of its obligations under this Agreement.

- XII. **AMENDMENTS** The Budget Proposal within this Agreement may be revised by the Subrecipient and the MHTC subject to the MHTC's approval without a signed amendment as long as the total contract amount is not altered and /or the intended scope of the project does not change. Prior to any revision being made to the Budget Proposal, Subrecipient shall submit a written or email request to the MHTC requesting the change. Any other change in this Agreement, whether by modification or supplementation, must be accomplished by a formal contract amendment signed and approved by the duly authorized representative of the Subrecipient and the MHTC. All final modification requests must be submitted no later than September 30 of the project fiscal year.
- XIII. **MHTC REPRESENTATIVE** The MoDOT Highway Safety and Traffic Division Director is designated as the MHTC's representative for the purpose of administering the provisions of this Agreement. The MHTC's representative may designate by written notice other persons having the authority to act on behalf of the MHTC in furtherance of the performance of this Agreement.
- XIV. **ASSIGNMENT** The Subrecipient shall not assign, transfer, or delegate any interest in this Agreement without the prior written consent of the MHTC.
- XV. **LAWS OF MISSOURI TO GOVERN** This Agreement shall be construed according to the laws of the State of Missouri. The Subrecipient shall comply with all local, state and federal laws and regulations relating to the performance of this Agreement.
- XVI. **VENUE** It is agreed by the parties that any action at law, suit in equity, or other judicial proceeding to enforce or construe this agreement, or regarding its alleged breach, shall be instituted only in the Circuit Court of Cole County, Missouri.
- XVII. **SECTION HEADINGS** All section headings contained in this Agreement are for the convenience of reference only and are not intended to define or limit the scope of any provision of this Agreement.
- XVIII. **NONSEGREGATED FACILITIES** (Applicable to contracts over \$10,000) Subrecipient and its subcontractors, suppliers and vendors, should meet Federal requirements regarding nonsegregated facilities.

**XIX. FUNDING ORIGINATION AND AUDIT INFORMATION**

The MHTC funds the following NHTSA program areas:

| <u>Section</u> | <u>Assistance Listing #</u> | <u>Program Title</u>                        |
|----------------|-----------------------------|---------------------------------------------|
| 402            | 20.600                      | State and Community Highway Safety Programs |
| 154            | 20.607                      | Alcohol Open Container Requirements         |
| 405b           | 20.616                      | National Priority Safety Programs           |
| 405c           | 20.616                      | National Priority Safety Programs           |
| 405d           | 20.616                      | National Priority Safety Programs           |
| 405e           | 20.616                      | National Priority Safety Programs           |
| 405f           | 20.616                      | National Priority Safety Programs           |
| 405g           | 20.616                      | National Priority Safety Programs           |
| 405h           | 20.616                      | National Priority Safety Programs           |
| 405i           | 20.616                      | National Priority Safety Programs           |

**XX. THE DRUG-FREE WORKPLACE ACT OF 1988 (41 U.S.C. 8103)**

**(Applies to subrecipients as well as States)**

The State will provide a drug-free workplace by:

- A.** Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the Subrecipient's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- B.** Establishing a drug-free awareness program to inform employees about:
  1. The dangers of drug abuse in the workplace.
  2. The Subrecipient's policy of maintaining a drug-free workplace.
  3. Any available drug counseling, rehabilitation, and employee assistance programs.
  4. The penalties that may be imposed upon employees for drug violations occurring in the workplace.
  5. Making it a requirement that each employee engaged in the performance of the grant be given a copy of the statement required by paragraph (A).
- C.** Notifying the employee in the statement required by paragraph (A) that, as a condition of employment under the grant, the employee will:
  - a. Abide by the terms of the statement.
  - b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five days after such conviction.
- D.** Notifying the agency within ten days after receiving notice under subparagraph (C)(b) from an employee or otherwise receiving actual notice of such conviction.
- E.** Taking one of the following actions, within 30 days of receiving notice under subparagraph (C)(b), with respect to any employee who is so convicted:
  - a. Taking appropriate personnel action against such an employee, up to and including termination.
  - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency.
- F.** Making a good faith effort to continue to maintain a drug-free workplace through implementation of all of the paragraphs above.

**XXI. POLITICAL ACTIVITY (HATCH ACT)**

**(Applies to subrecipients as well as States)**

The State will comply with provisions of the Hatch Act (5 U.S.C. 1501-1508), which limits the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

**XXII. CERTIFICATION REGARDING FEDERAL LOBBYING**

**(Applies to subrecipients as well as States)**

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

- A. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- B. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- C. The undersigned shall require that the language of this certification be included in the award documents for all sub-award at all tiers (including subcontracts, subgrants, and contracts under grant, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

**XXIII. RESTRICTION ON STATE LOBBYING**

**(Applies to subrecipients as well as States)**

None of the funds under this program will be used for any activity specifically designed to urge or influence a State or local legislator to favor or oppose the adoption of any specific legislative proposal pending before any State or local legislative body. Such activities include both direct and indirect (e.g., "grassroots") lobbying activities, with one exception. This does not preclude a State official whose salary is supported with NHTSA funds from engaging in direct communications with State or local legislative officials, in accordance with customary State practice, even if such communications urge legislative officials to favor or oppose the adoption of a specific pending legislative proposal.

**XXIV. CERTIFICATION REGARDING DEBARMENT AND SUSPENSION**

**(Applies to subrecipients as well as States)**

Instructions for Primary Tier Participant Certification (States)

- A. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below and agrees to comply with the requirements of 2 CFR Parts 180 and 1200.
- B. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
- C. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default or may pursue suspension or debarment.

- D. The prospective primary tier participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- E. The terms *covered transaction*, *debarment*, *suspension*, *ineligible*, *lower tier*, *participant*, *person*, *primary tier*, *principal*, and *voluntarily excluded*, as used in this clause, have the meaning set out in the Definitions and Coverage sections of 2 CFR Part 180 and 1200. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
- F. The prospective primary tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by NHTSA.
- G. The prospective primary tier participant further agrees by submitting this proposal that it will include the clause titled "Instructions for Lower Tier Certification" including the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions and will require lower tier participants to comply with 2 CFR Parts 180 and 1200.
- H. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the System for Award Management Exclusions website (<https://www.sam.gov/>).
- I. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- J. Except for transactions authorized under paragraph F of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate the transaction for cause or default.

*Certification Regarding Debarment, Suspension, and Other Responsibility Matters-Primary Tier Covered Transactions:*

- 1. The prospective primary tier participant certifies to the best of its knowledge and belief, that its principals:
  - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency;
  - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining , attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of record, making false statements, or receiving stolen property;
  - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.
- 2. Where the prospective primary participant is unable to certify to any of the Statements in this certification, such prospective participant shall attach an explanation to this proposal.

Instructions for Lower Tier Participant Certification

- A. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below and agrees to comply with the requirements of 2 CFR Parts 180 and 1200.

- B. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- C. The prospective lower tier participant shall provide immediate written notice to the person to whom this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- D. The terms *covered transaction, civil judgment, debarment, suspension, ineligible, participant, person, principal, and voluntarily excluded*, as used in this clause, are defined in 2 CFR parts 180 and 1200. You may contact the person to whom this proposal is submitted for assistance in obtaining a copy of those regulations.
- E. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- F. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled "Instructions for Lower Tier Certification" including the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions and will require lower tier participants to comply with 2 CFR Parts 180 and 1200.
- G. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any prospective lower tier participants, each participant may, but is not required to, check the System for Award Management Exclusions website (<https://www.sam.gov>).
- H. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- I. Except for transactions authorized under paragraph E of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension or debarment.

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Lower Tier Covered Transactions:**

- 1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**XXV. BUY AMERICA ACT**

**(Applies to subrecipients as well as States)**

The State and each subrecipient will comply with the Buy America requirement (23 U.S.C. 313) when purchasing items using Federal funds. Buy America requires a State, or subrecipient, to purchase only steel, iron and manufactured products produced in the United States with Federal funds, unless the Secretary of Transportation determines that such domestically produced items would be inconsistent with the public interest, that such materials are not reasonably available and of a satisfactory quality, or that inclusion of domestic materials will increase the

cost of the overall project contract by more than 25 percent. In order to use Federal funds to purchase foreign produced items, the State must submit a waiver request that provides an adequate basis and justification to and approved by the Secretary of Transportation.

All items purchased must be compliant with the National Highway Traffic Safety Administration (NHTSA) interpretation of the Buy America Act including, but not limited to:

1. Items valued over \$5,000 per unit must be manufactured or assembled in the United States of America, or as allowed by a current Buy America Act waiver issued by the NHTSA;
2. All vehicles, motorcycles, trailers, and other similar conveyances must be manufactured or assembled in the United States of America regardless of cost.

<https://www.nhtsa.gov/sites/nhtsa.gov/files/buy-america-act-revised-11202015.pdf>

Furthermore, the State and each subrecipient will follow the guidelines of 2 C.F.R. § 200.322, Domestic Preferences for Procurements. As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States.

**XXVI. PROHIBITION ON USING GRANT FUNDS TO CHECK FOR HELMET USAGE**  
(Applies to subrecipients as well as States)

The State and each subrecipient will not use 23 U.S.C. Chapter 4 grant funds for programs to check helmet usage or to create checkpoints that specifically target motorcyclists.

**XXVII. POLICY ON SEAT BELT USE**

In accordance with Executive Order 13043, Increasing Seat Belt Use in the United States, dated April 16, 1997, the Subrecipient is encouraged to adopt and enforce on-the-job seat belt use policies and programs for its employees when operating company-owned, rented, or personally-owned vehicles. The National Highway Traffic Safety Administration (NHTSA) is responsible for providing leadership and guidance in support of this Presidential initiative. For information and resources on traffic safety programs and policies for employers, please contact the Network of Employers for Traffic Safety (NETS), a public-private partnership dedicated to improving the traffic safety practices of employers and employees. You can download information on seat belt programs, costs of motor vehicle crashes to employers, and other traffic safety initiatives at [www.trafficsafety.org](http://www.trafficsafety.org). The NHTSA website ([www.nhtsa.gov](http://www.nhtsa.gov)) also provides information on statistics, campaigns, and program evaluations and references.

**XXVIII. POLICY ON BANNING TEXT MESSAGING WHILE DRIVING**

In accordance with Executive Order 13513, Federal Leadership On Reducing Text Messaging While Driving, and DOT Order 3902.10, Text Messaging While Driving, States are encouraged to adopt and enforce workplace safety policies to decrease crashes caused by distracted driving, including policies to ban text messaging while driving company-owned or -rented vehicles, Government-owned, leased or rented vehicles, or privately-owned when on official Government business or when performing any work on or behalf of the Government. States are also encouraged to conduct workplace safety initiatives in a manner commensurate with the size of the business, such as establishment of new rules and programs or re-evaluation of existing programs to prohibit text messaging while driving, and education, awareness, and other outreach to employees about the safety risks associated with texting while driving.

**XXIX. PARTICIPATION IN HIGHWAY SAFETY PARTNERSHIPS**

All subrecipients are strongly encouraged to participate in Highway Safety sponsored functions including, but not limited to, Missouri Coalition for Roadway Safety regional meetings, applicable subcommittees and conferences; working groups; dedicated enforcement workshops; and grant application and contract award workshops. Subrecipient agencies with positions that are funded via Highway Safety grants are expected to participate (or send a representative) in the above functions as much as possible.

**XXX. PROHIBITION ON TELECOMMUNICATIONS AND VIDEO SURVEILLANCE**

The National Defense Authorization Act of Fiscal Year 2019 (Pub. L. 115-232) prohibits Federal grant funds from being obligated or expended to procure or obtain (or to enter into, extend, or renew a contract to procure or obtain) certain covered telecommunications equipment, services, or systems. States and subrecipients should refer to the Super Circular for more information on what equipment and companies this prohibition covers.

Equipment regularly purchased under NHTSA grants that may be subject to this provision could include : mobile phones, landlines, and the internet. Note that this provision prohibits purchasing these (and other) items produced by certain companies; items produced by non-prohibited companies are still potentially allowable.

**XXXI. CERTIFICATION ON CONFLICT OF INTEREST  
(Applies to subrecipients as well as States)**

**General Requirements**

No employee, officer or agent of a State or its subrecipient who is authorized in an official capacity to negotiate , make, accept or approve, or to take part in negotiating, making, accepting or approving any subaward, including contracts or subcontracts, in connection with this grant shall have, directly or indirectly, any financial or personal interest in any such subaward. Such a financial or personal interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or personal interest in or a tangible personal benefit from an entity considered for a subaward. Based on this policy:

- A.** The recipient shall maintain a written code or standards of conduct that provide for disciplinary actions to be applied for violations of such standards by officers, employees, or agents.
  - 1.** The code or standards shall provide that the recipient's officers, employees, or agents may neither solicit nor accept gratuities, favors, or anything of monetary value from present or potential subawardees, including contractors or parties to subcontracts.
  - 2.** The code or standards shall establish penalties, sanctions or other disciplinary actions for violations, as permitted by State or local law or regulations.
- B.** The recipient shall maintain responsibility to enforce the requirements of the written code or standards of conduct.

**Disclosure Requirements**

No State or its subrecipient, including its officers, employees or agents, shall perform or continue to perform under a grant or cooperative agreement, whose objectivity may be impaired because of any related past, present, or currently planned interest, financial or otherwise, in organizations regulated by NHTSA or in organizations whose interests may be substantially affected by NHTSA activities. Based on this policy:

- A.** The recipient shall disclose any conflict of interest identified as soon as reasonably possible, making an immediate and full disclosure in writing to NHTSA. The disclosure shall include a description of the action which the recipient has taken or proposes to take to avoid or mitigate such conflict.
- B.** NHTSA will review the disclosure and may require additional relevant information from the recipient . If a conflict of interest is found to exist, NHTSA may (a) terminate the award, or (b) determine that it is otherwise in the best interest of NHTSA to continue the award and include appropriate provisions to mitigate or avoid such conflict .
- C.** Conflicts of interest that require disclosure include all past, present or currently planned organizational, financial, contractual or other interest(s) with an organization regulated by NHTSA or with an organization whose interests may be substantially affected by NHTSA activities, and which are related to this award. The interest(s) that require disclosure include those of any recipient, affiliate, proposed consultant, proposed subcontractor and key personnel of any of the above. Past interest shall be limited to within one year of the date of award. Key personnel shall include any person owning more than a 20 percent interest in a recipient, and the officers, employees or agents of a recipient who are responsible for making a decision or taking an action under an award where the decision or action can have an economic or other impact on the interests of a regulated or affected organization .

## CONTRACT REQUIREMENTS

### **THE FOLLOWING REQUIREMENTS ONLY APPLY TO CONTRACTS THAT INCLUDE TRAINING**

Subrecipients offering the MHTC-funded courses must adhere to the following standard elements required for training contracts:

- A. A course schedule must be presented to the MHTC program coordinator prior to the proposed training. The schedule should include: title of course; date(s); time; exact location; and agenda. Any changes to the course schedule must have prior approval from the MHTC.
- B. Each student must complete a survey form at the completion of the workshop/training. The survey will ask a series of questions concerning adequacy of: training received; instructor's presentation; training facility/location; and worth of the training.
- C. The Subrecipient must provide a sign-up sheet for every class when submitting a reimbursement request for the course (a typed list of everyone who registered is not acceptable). The sign-up sheet must capture the following information:
  - 1. Title of the class
  - 2. Date(s) and location of class
  - 3. Printed Name and signature of attendees (unless otherwise prohibited)
  - 4. Name of agency/organization of each attendee
- D. To ensure cost effectiveness, every effort should be made to enroll a minimum of fifteen (15) students per class. If the minimum number of students cannot be ensured, the subrecipient should contact the MHTC Highway Safety Office to seek approval to proceed with the class.
- E. Copies of the student evaluations, number of students enrolled/number of students attending, agenda/syllabus/curriculum, and participant sign-up sheets must be retained in Subrecipient's files after the training has been conducted and available for MHTC review upon request.

### **THE FOLLOWING REQUIREMENTS APPLY TO LAW ENFORCEMENT AGENCIES ONLY**

#### **A. PROBLEM IDENTIFICATION**

Subrecipient must develop a selected traffic enforcement plan by evaluating crash data involving fatal, disabling and moderate injuries. This will be done on an annual basis to determine the highest crash locations, to include: month of year, day of week, time of day, and causation factors. This plan must be used to determine locations utilized in site selection for conducting enforcement efforts. Any changes to the enforcement plan must be made in writing to the MHTC project coordinator in advance of enforcement efforts.

#### **B. PROJECT ACTIVITIES**

- 1. Enforcement activities by the Subrecipient must remain at the current level. Enforcement efforts provided by this contract must be in addition to current enforcement activities.
- 2. Officers will be permitted to issue multiple citations and/or written warnings to drivers who have committed several violations.
- 3. High visibility enforcement is a key strategy to reducing traffic crashes; therefore, law enforcement officers working overtime projects are strongly encouraged to make at least three (3) contacts per hour when conducting an enforcement project.
- 4. Subrecipient is expected to participate in associated national or state mobilization efforts in conjunction with, or at the direction of, the Highway Safety and Traffic Division. These mobilizations include, but are not limited to: Click It or Ticket campaign, Drive Sober or Get Pulled Over campaign, Youth Seat Belt enforcement campaign, Holiday Impaired Driving campaign, and quarterly enforcement efforts. Mobilization reporting efforts shall be completed using the online mobilization reporting form located at: <https://mobilization.rejis.org>.
- 5. Only law enforcement work performed by a duly licensed, Peace Officer Standards and Training (POST) certified law enforcement officer will be reimbursed.
- 6. The Subrecipient will not be eligible for reimbursement for any individual law enforcement officer working under this grant in excess of 40 hours for any two week pay period. The Subrecipient will not be eligible for reimbursement for any individual law enforcement officer working under this grant where said officer is claiming to have worked as a law enforcement officer for more than 16 hours in any 24 hour period.

#### **C. PARTNERSHIPS**

Law Enforcement agencies are strongly encouraged to participate in the Law Enforcement Traffic Safety Advisory Council (LETSAC) and attend the annual conference. Agencies located within the metropolitan areas of St. Louis or Kansas City should participate in Operation Impact or Operation Gateway (traffic safety task forces).



**D. ALLOWABLE COSTS**

Full-time, part-time and reserve officers are eligible to participate in overtime enforcement projects. Part-time and reserve officers must have the same authority as a full-time permanent officer. MHTC will reimburse Subrecipient at officer's standard rate of pay in accordance with Subrecipient policies and procedures regarding standard rate of pay and overtime rate of pay. The Subrecipient will not be reimbursed at the overtime rate for work that according to Subrecipient's own policies and procedures does not constitute overtime. Non-POST certified personnel may be allowed, at the sole discretion of MHTC, in a support/administrative role.

Exceptions to allowable costs may be made with prior written permission of the MHTC.

**E. DRUNK DRIVING ENFORCEMENT PROJECTS**

1. Those officers conducting standardized field sobriety testing must have 24 hours of Standardized Field Sobriety Test training to participate in grant funded enforcement efforts.
2. Agency should participate in quarterly enforcement efforts and the national impaired driving crackdowns held annually.

**F. SOBRIETY CHECKPOINTS**

Unless otherwise prohibited by state statute or appropriation,

1. The MHTC will fund enforcement agencies to conduct sobriety checkpoints in accordance with standards outlined in the Sobriety Checkpoint Reference Manual and the Sobriety Checkpoint Supervisor Training program.
2. Sobriety checkpoint enforcement efforts must be coupled with appropriate public information efforts to increase the perceived risk of arrest and to enhance the actual risk of arrest.
3. Enforcement statistics and the agency's sobriety checkpoint operations plan must be submitted with reimbursement vouchers.

**G. PURSUIT POLICIES**

Law enforcement agencies are encouraged to follow the guidelines established for vehicular pursuits issued by the International Association of Chiefs of Police that are currently in effect. (23 U.S.C. 402(j))

## PROBLEM IDENTIFICATION

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During the last 5 years, no behavior on Missouri roadways has contributed to traffic fatalities as frequently as speed and aggressive driving. From 2017-2021, there were 2,547 fatalities involving a speeding or aggressive driver, accounting for 53% of all traffic fatalities. Speed and aggressive driving are cited in fatal crash reports as a contributing circumstance more than twice as often as impaired driving, and feedback and citation data from law enforcement agencies indicate speeds are up significantly during the last 3 years.

Life is very busy and stressful for a lot of people. This is reflected in the way we drive trying to get to our various destinations. Speeding, careless, and aggressive driving are the leading contributors to fatality and serious injury vehicle crashes.

The City of Neosho has a population of 12,687 (according to the 2021 U.S. Census Bureau) and multiple schools, businesses, and state highway systems are located within it. This creates areas with higher traffic congestion especially during rush hour times (7 AM - 9 AM and 4 PM - 6 PM) when more individuals are on the roadway commuting to and from work and school. As previously mentioned, people are often stressed, in a hurry, or distracted by their busy schedules. This is when you see people traveling at faster rates of speed and in a careless or aggressive nature. Many drivers on the roadway don't maintain their focus on their safety or the safety of others around them.

According to the Missouri State Highway Patrol 2022 Crash Statistics, there were a total of 200 crashes reported by the Neosho Police Department. Of the 200 crashes, there were 55 people injured and 3 fatalities. Of the 55 injuries, 7 were speed-related and 46 involved aggressive driving. Of the 3 fatalities, 1 was speed-related and 3 involved aggressive driving.

The 5 year average of fatality crashes have increased over the last 5 years. According to the Missouri Department of Transportation's website the 5 year average of fatalities was 910 in 2019, 934 in 2020, 947 in 2021, 972 in 2022. The rate of fatalities from 2019 to 2020 showed a 2.57% increase, 2020 to 2021 showed a 1.37% increase, and 2021 to 2022 showed a 2.57% increase. The leading common characteristic of fatal crashes is aggressive driving. Of the total fatal accidents in 2019, 462 were attributed to aggressive driving. Of the total fatal crashes in 2020, 562 were attributed to aggressive driving. Of the total fatal accidents in 2021, 548 were attributed to aggressive driving.

## GOALS/OBJECTIVES

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### Core Performance Measure Goals:

Based on a goal of 0 fatalities by 2030, Missouri is setting a five-year average fatality target of 897.6 by December 31, 2026.

Based on a goal of 0 serious injuries by 2040, Missouri is setting a five-year average serious injury target of 4,486.1 by December 31, 2026.

Based on a goal of 0 fatalities by 2030, Missouri is setting a five-year average speed related fatality target of 293.8 by December 31, 2026.

### Core Performance Measure Goals:

The Neosho Police Department ultimately strives to have 0 fatalities and 0 serious injuries as a result of crashes by 2035. This would allow just over 10 years to implement our enforcement goals and make adjustments to aid in reaching 0 fatal and serious injury crashes.

Based on a goal of 0 fatalities by 2030, Neosho Police Department is setting a five-year average serious injury target of 27.5 based on agency statistics.

Based on a goal of 0 fatalities by 2030, Neosho Police Department is setting a five-year average fatality target of 1.5 based on agency statistics.

The goal and objective is to decrease aggressive driving related crashes by increasing traffic enforcement and visibility .

## PROJECT DESCRIPTION

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The Neosho Police Department plans to increase the number of traffic stops for speeding and other aggressive driving during grant-funded enforcement activities to make the roadways safer for the community that we serve. Patrol officers will dedicate additional time to their regularly scheduled shifts to enforce traffic law obedience. This will require overtime compensation for the officers. To execute accurate and resolute traffic stops, some of the department's radars will need to be replaced. Officers will target areas with a high volume of traffic such as state highway systems that cross through various areas within the City of Neosho and school zones during rush hour times. Officers will also benefit from any additional training and legal updates available to assist them in performing at their best.

## SUPPLEMENTAL INFORMATION

| <u>Question</u>                                                                                                                                                                                                                                                                                                                                                                  | <u>Answer</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| You must answer the following questions.                                                                                                                                                                                                                                                                                                                                         |               |
| 1 Does your agency have and enforce an internal safety belt policy for all personnel?                                                                                                                                                                                                                                                                                            | Yes           |
| 2 Does your agency have and enforce a policy restricting cell phone use while driving?                                                                                                                                                                                                                                                                                           | Yes           |
| 3 Does your agency report racial profiling data annually?                                                                                                                                                                                                                                                                                                                        | Yes           |
| 4 Does your agency report to MOCARS?                                                                                                                                                                                                                                                                                                                                             | Yes           |
| 5 Does your agency report MIBRS information annually?                                                                                                                                                                                                                                                                                                                            | Yes           |
| 6 Please explain any NO answer(s) to questions 1-5:                                                                                                                                                                                                                                                                                                                              |               |
| 7 Have any of your officers/personnel been debarred and are therefore not eligible to receive federal funds for reimbursement of salary, fringe benefits, or overtime?                                                                                                                                                                                                           | No            |
| 8 Does your agency have adequate manpower to fully expend the funds requested in this application?                                                                                                                                                                                                                                                                               | Yes           |
| 9 If NO, please explain.                                                                                                                                                                                                                                                                                                                                                         |               |
| 10 Have any significant changes occurred with your agency within the last year that would affect performance, including personnel or system changes?                                                                                                                                                                                                                             | No            |
| 11 If YES, please explain.                                                                                                                                                                                                                                                                                                                                                       |               |
| 12 Are you aware of any fraud, waste or abuse on grant projects in your office/agency within the last 5 years?                                                                                                                                                                                                                                                                   | No            |
| 13 If YES, please explain.                                                                                                                                                                                                                                                                                                                                                       |               |
| 14 If your agency received Highway Safety grant funding in the last three (3) fiscal years and there were unexpended balances, please explain why.<br><br>The award for the previous year was not used due to major personnel shortages. A majority of our officers were working overtime for shift coverage on a weekly basis and had no way to work any additional overtime.   |               |
| 15 Did your political entity receive more than 80% of its annual gross revenues in Federal Awards in your preceding fiscal year?                                                                                                                                                                                                                                                 | No            |
| 16 Did your political entity receive \$25,000,000 or more in Federal Awards in your preceding fiscal year?                                                                                                                                                                                                                                                                       | No            |
| 17 If you answered NO to either question 15 and 16, DO NOT answer this question. If you answered YES to both question 15 and 16, and the public does not have access to this information, list the names and compensation amounts of the five most highly compensated employees in your business or organization (the legal entity to which the UEI number it provided belongs). |               |

Please use the most current 12-months of data available for answering questions 18-23. INCLUDE ALL OF YOUR AGENCY'S STATISTICS, NOT JUST THOSE ISSUED DURING GRANT ACTIVITY.

|    |                                                                             |     |
|----|-----------------------------------------------------------------------------|-----|
| 18 | Total number of DWI violations written by your agency.                      | 91  |
| 19 | Total number of speeding citations written by your agency.                  | 446 |
| 20 | Total number of HMV citations written by your agency.                       | 191 |
| 21 | Total number of child safety/booster seat citations written by your agency. | 0   |
| 22 | Total number of safety belt citations written by your agency.               | 0   |
| 23 | Total number of warnings issued.                                            | 699 |

Use the most current three years crash data from the Missouri State Highway Patrol (MSHP) or your internal record management system for questions 24-34.

|    |                                                                                |     |
|----|--------------------------------------------------------------------------------|-----|
| 24 | Total number of traffic crashes.                                               | 258 |
| 25 | Total number of traffic crashes resulting in a fatality.                       | 0   |
| 26 | Total number of traffic crashes resulting in a serious injury.                 | 86  |
| 27 | Total number of speed-related traffic crashes.                                 | 13  |
| 28 | Total number of speed-related traffic crashes resulting in a fatality.         | 0   |
| 29 | Total number of speed-related traffic crashes resulting in a serious injury.   | 7   |
| 30 | Total number of alcohol-related traffic crashes.                               | 16  |
| 31 | Total number of alcohol-related traffic crashes resulting in a fatality.       | 0   |
| 32 | Total number of alcohol-related traffic crashes resulting in a serious injury. | 0   |
| 33 | Total number of unbuckled fatalities.                                          | 0   |
| 34 | Total number of unbuckled serious injuries.                                    | 0   |

Enter your agency's information below.

|    |                                                                                           |    |
|----|-------------------------------------------------------------------------------------------|----|
| 35 | Total number of commissioned law enforcement officers.                                    | 28 |
| 36 | Total number of commissioned patrol and traffic officers.                                 | 28 |
| 37 | Total number of commissioned law enforcement officers available for overtime enforcement. | 20 |
| 38 | Total number of vehicles available for enforcement.                                       | 12 |
| 39 | Total number of radars/lasers.                                                            | 16 |

- 40 Total number of in-car video cameras. 0
- 41 Total number of PBTs and/or oral fluid testing devices. Please indicate the number of each type of instrument.
- 1 -Intox DataMaster DMT  
14 - Portable Breath Testers
- 42 Total number of Breath Instruments. 15

The following information explains the strategies your agency will use to address the traffic crash problem . This information is considered to be the Project Description and should be specific to the crash problem.

- 43 Identify primary enforcement locations.
- All streets and highways within the city limits. The primary area of focus will be school zones, heavy traffic near businesses, and highways.
- 44 Enter the number of enforcement periods your agency will conduct each month. 4
- 45 Enter the months in which enforcement will be conducted.
- All months of the year.
- 46 Enter the days of the week in which enforcement will be conducted.
- Any day of the week.
- 47 Enter the time of day in which enforcement will be conducted.
- Any time of the day the extra enforcement is deemed necessary.
- 48 Enter the number of officers assigned during the enforcement period. 1
- 49 If equipment or supplies are requested to conduct this project, explain below why it is needed and how it will be used.
- New radar units are necessary for the officers during traffic enforcement operations . Some of the radars are extremely dated, harder to use, and in need of repairs or replacement. We compared the cost of a brand new Stalker DSR Radar (\$2,995.00) and a refurbished Stalker DSR Radar (\$1,295.00). This type of radar is preferred among the officers for its quality and ease of use . With such a difference in cost we would be able to replace more of our radar units which is highly needed for our agency. We are requesting 4 refurbished radars instead of 2 new radars.

## PROJECT EVALUATION

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The MHTC will administratively evaluate this project. Evaluation will be based, at a minimum, upon the following:

1. Law enforcement compliance with state UCR, Racial Profiling, and MOCARS reporting requirements (law enforcement contracts only)
2. Timely submission of monthly reimbursement vouchers and appropriate documentation to support reimbursement for expenditures (i.e., personal services, equipment, materials)
3. Timely submission of periodic reports (i.e., monthly, quarterly) as required
4. Timely submission of the Year End Report of activity (due within 30 days after contract completion date)
5. Attaining the Goals set forth in this contract
6. Accomplishing the Objectives\* established to meet the project Goals, such as:
  - Enforcement activities (planned activities compared with actual activities)
  - Programs (number and success of programs held compared to planned programs, evaluations if available)
  - Training (actual vs. anticipated enrollment, student evaluations of the class, student test scores on course examinations, location of classes, class cancellation information)
  - Equipment purchases (timely purchase of equipment utilized to support and enhance the traffic safety effort ; documentation of equipment use and frequency of use)
  - Public awareness activities (media releases, promotion events, or education materials produced or purchased)
  - Other (any other information or material that supports the Objectives)
7. The project will be evaluated by the Highway Safety and Traffic Division through annual crash analysis

Evaluation results will be used to determine:

- The success of this type of activity in general and this particular project specifically ;
- Whether similar activities should be supported in the future; and
- Whether grantee will receive funding for future projects

The Neosho Police Department will administratively evaluate this project. Evaluation will be based on the following:

Officers may volunteer for dedicated traffic enforcement assignments . To ensure all grant funding is utilized, officers will be assigned as necessary.

Evaluations will be conducted monthly and at the end of the project to determine if the goals and objectives outlined in this contract have been met. This includes timely equipment purchases, completed officer training, and a lower rate of injuries and fatalities in traffic crashes.



## ADDITIONAL FUNDING SOURCES

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The only active grant at this time is the FY 2023 Patrick Leahy Bulletproof Vest Partnership (BVP) Program through the Bureau of Justice. The department was awarded \$4,619.93 to outfit 7 officers with new bulletproof vests. The funding started on April 1, 2023, and will come to completion on August 31, 2025.

## BUDGET

| Category              | Item                     | Description                                                                                                                  | Quantity | Cost       | Total             | Local         | Total Requested   |
|-----------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------|----------|------------|-------------------|---------------|-------------------|
| <b>Equipment</b>      |                          |                                                                                                                              |          |            |                   |               |                   |
|                       | RADAR/LIDAR              | Stalker Dual DSR Gen-3 radar - Refurbished - Includes antennas, mounts, cables, sun shield, tuning forks, and certification. | 4.00     | \$1,295.00 | \$5,180.00        | \$0.00        | \$5,180.00        |
|                       |                          |                                                                                                                              |          |            | <b>\$5,180.00</b> | <b>\$0.00</b> | <b>\$5,180.00</b> |
| <b>Personnel</b>      |                          |                                                                                                                              |          |            |                   |               |                   |
|                       | Overtime and/or Fringe   | Officer overtime and fringe (appx. 56 hours).                                                                                | 1.00     | \$2,800.00 | \$2,800.00        | \$0.00        | \$2,800.00        |
|                       |                          |                                                                                                                              |          |            | <b>\$2,800.00</b> | <b>\$0.00</b> | <b>\$2,800.00</b> |
| <b>Training</b>       |                          |                                                                                                                              |          |            |                   |               |                   |
|                       | Professional Development | LETSAC conference.                                                                                                           | 2.00     | \$600.00   | \$1,200.00        | \$0.00        | \$1,200.00        |
|                       |                          |                                                                                                                              |          |            | <b>\$1,200.00</b> | <b>\$0.00</b> | <b>\$1,200.00</b> |
| <b>Total Contract</b> |                          |                                                                                                                              |          |            | <b>\$9,180.00</b> | <b>\$0.00</b> | <b>\$9,180.00</b> |

## ATTACHMENTS

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| <u>Document Type</u> | <u>Description</u> | <u>Original File Name</u> | <u>Date Added</u> |
|----------------------|--------------------|---------------------------|-------------------|
| PDF                  | PDF Document       | Radar Quote - Refurbish   | 02/15/2024        |
| PDF                  | PDF Document       | Radar Quote - New.pdf     | 02/15/2024        |
| PDF                  | PDF Document       | Neosho Police Departme    | 02/15/2024        |

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Bill No. 2024-81: MODOT Driving While Intoxicated Grant\_Police Department

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**ORIGINATING DEPARTMENT:** Police Department

**ATTACHMENT:**

1. Bill No. 2024-81 Driving While Intoxicated Grant\_MODOT DWI
  2. MODOT DWI Contract FY25
- 

**PURPOSE:**

Approve the Police Chief and Police Lieutenant to sign the HMV MoDot contract by DocuSign.

**BACKGROUND:**

At the last meeting, the Neosho City Council approved the police department to apply for the MoDot HMV grant. Attached is the actual contract that requires the Police Chief's and Police Lieutenant's signature.

**RECOMMENDATION:**

Allow the Police Chief and Police Lieutenant to proceed with signing the contracts via DocuSign.

**AN ORDINANCE authorizing the City of Neosho, Missouri, to enter into an Agreement with the Missouri Department of Transportation Highway Safety and Traffic Division, for the purpose of applying for a Driving While Intoxicated (DWI) grant related to the Neosho Police Department; and authorizing the Police Chief to execute the same by and on behalf of the City of Neosho.**

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That the Agreement by and between the City of Neosho, Missouri, and the Missouri Department of Transportation Highway Safety and Traffic Division, a political subdivision of the State of Missouri, for the purpose of applying for a Driving While Intoxicated (DWI) grant related to the Neosho Police Department, a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

**Section 2.** That the Police Chief of the City of Neosho, Missouri, is hereby authorized and directed to execute said Agreement by and on behalf of the City of Neosho.

**Section 3.** That this Ordinance shall be in full force and effect from and after its passage.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

# CONTRACT

Form HS-1

Version: 1

05/24/2024

**Missouri Department of Transportation**  
**Highway Safety and Traffic Division**  
P.O. Box 270  
830 MoDOT Drive  
Jefferson City, MO 65102  
**Phone:** 573-751-4161  
**Fax:** 573-634-5977

**Project Title:** Impaired Driving Enforcement  
**Project Number:** 25-ENF-03-051  
**Project Category:** Impairment Enforcement  
**Program Area:** Impaired Driving Countermeasures

**Funding Source:** 154 AL / 20.607

**Type of Project:** Initial

**Started:** 10/01/2024

| Federal Funds Benefiting |            |
|--------------------------|------------|
| <b>State:</b>            |            |
| <b>Local:</b>            | \$5,000.00 |
| <b>Total:</b>            | \$5,000.00 |

| Source of Funds |            |
|-----------------|------------|
| <b>Federal:</b> | \$5,000.00 |
| <b>State:</b>   |            |
| <b>Local:</b>   | \$0.00     |
| <b>Total:</b>   | \$5,000.00 |

**Prepared By**  
Van Loo, Tara

**Name of Grantee**  
Neosho Police Dept.

**Grantee County**  
Newton

**Grantee Address**  
201 N College Street  
  
Neosho, MO 648501469

**Telephone**  
417-451-8012

**Fax**  
417-451-8008

**Contract Period**  
**Effective:** 10/01/2024  
**Through:** 09/30/2025

\_\_\_\_\_  
**Subrecipient Authorizing Official**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Subrecipient Project Director**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**MHTC Authorizing Official**

\_\_\_\_\_  
**Date**

It is mutually agreed by the parties executing this contract to the following: the reimbursable costs shall not exceed the **total obligated amount of \$5,000.00**; the recipient of funds shall proceed with the implementation of the program as detailed in attached forms (which become part of this agreement) and shall adhere to conditions specified in attachments (which become part of this agreement); all Federal and State of Missouri laws and regulations are applicable and any addendums or conditions thereto shall be binding; any facilities and/or equipment acquired in the connection with this agreement shall be used and maintained for highway safety purposes; the recipient of funds must comply with the Title VI of the Civil Rights Act of 1964, and the Federal Funds from other sources, excluding Federal Revenue Sharing Funds, will not be used to match the Federal funds obligated to this project.

**IN ORDER TO RECEIVE FEDERAL FUNDING, THE SUBRECIPIENT AGREES TO COMPLY WITH THE FOLLOWING CONDITIONS IN ADDITION TO THOSE OUTLINED IN THE NARRATIVE OF THE CONTRACT.**

**I. RELATIONSHIP**

The relationship of the Subrecipient to the Missouri Highways and Transportation Commission (MHTC) shall be that of an independent contractor, not that of a joint enterpriser. The Subrecipient shall have no authority to bind the MHTC for any obligation or expense without the express prior written approval of the MHTC. This agreement is made for the sole benefit of the parties hereto and nothing in the Agreement shall be construed to give any rights or benefits to anyone other than the MHTC and the Subrecipient.

**II. GENERAL REQUIREMENTS**

The State and each subrecipient will comply with applicable statutes and regulations, including but not limited to:

- 23 U.S.C. Chapter 4 - Highway Safety Act of 1966, as amended
- Sec. 1906, Pub. L. 109-59, as amended by Sec. 25024, Pub. L. 117-58
- 23 CFR part 1300 - Uniform Procedures for State Highway Safety Grant Programs
- 2 CFR part 200 - Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards
- 2 CFR part 1201 - Department of Transportation, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards

**III. INTERGOVERNMENTAL REVIEW OF FEDERAL PROGRAMS**

The State has submitted appropriate documentation for review to the single point of contact designated by the Governor to review Federal programs, as required by Executive Order 12372 (Intergovernmental Review of Federal Programs).

**IV. EQUIPMENT AND SOFTWARE**

**A. PROCUREMENT:** Subrecipient's may adhere to its own procurement regulations and procedures which reflect applicable state/local laws, rules, and regulations provided such regulations and procedures adhere to the following State's procurement regulations and procedures:

1. Have a process in place to ensure that contracts are not awarded to contractors or individuals on a federal and/or state debarment list.
2. All procurement transactions whether negotiated or competitively bid and without regard to dollar value shall be conducted in a manner so as to provide maximum open and free competition.
3. All quotations and the rationale behind the selection of a source of supply must be retained, attached to the purchase order copy (as applicable), and placed in the accounting files.
4. Purchases to a single vendor estimated to total less than \$10,000 may be purchased with prudence on the open market.
5. Purchases to a single vendor estimated to total \$10,000 or more but less than \$100,000 must be competitively bid, or purchased through use of a state cooperative procurement, but need not be solicited by mail or advertisement.
6. Purchases to a single vendor estimated to total \$100,000 or more must:
  1. be advertised for bid in at least two daily newspapers of general circulation in such places as are most likely to reach prospective bidders (and may advertise in at least two weekly minority newspapers and may provide such information through an electronic medium available to the general public) at least five days before bids for such purchases are to be opened;
  2. post a notice of the proposed purchase in a public area of the Subrecipient's office ; and
  3. solicit bids by mail or other reasonable methods generally available to the public from prospective suppliers.
7. Subrecipients will make a good faith effort to utilize minority and women owned businesses within resource capabilities when procuring goods and services, and that all necessary affirmative steps are taken to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible (2 CFR PART 200.322)
8. Subrecipients will make every effort to purchase equipment as early in the fiscal year as possible . Equipment purchased late in the fiscal year risks not being reimbursed unless extenuating circumstances are encountered (i.e. supply chain shortages).

**B. DISPOSITION:** The Subrecipient shall make written request to the MHTC for instructions on the proper disposition of all items of equipment provided under the terms of this contract with a cost of \$5,000 or more. The MHTC will notify the subrecipient when an item of original cost of \$5,000 or more (and tracked by the MHTC as inventory) is no longer being

tracked and may be disposed of. Subrecipient must keep and maintain equipment with a cost of under \$5,000 until it is no longer useful for its originally intended purpose.

**C. REPLACEMENT:** No equipment may be funded on a replacement basis. Participation in equipment and manpower projects must be in addition to the Subrecipient's previous twelve months authorized strength.

**V. FISCAL RESPONSIBILITY**

- A. MAINTENANCE OF RECORDS:** The Subrecipient agrees that the Commission and/or its designees or representatives shall have access to all records related to the grant. The Subrecipient further agrees that the Missouri Department of Transportation (MoDOT) Highway Safety and Traffic (HS) Division, the National Highway Traffic Safety Administration (NHTSA), the Federal Highway Administration (FHWA) and/or any Federal audit agency with jurisdiction over this program and the Auditor of the State of Missouri or any of their duly authorized representatives may have access, for purpose of audit and examinations, to any books, documents, papers or records maintained by the Subrecipient pertaining to this contract and further agrees to maintain such books and records for a period of three (3) years following date of final payments.
- B. REIMBURSEMENT VOUCHER, SUPPORTING DOCUMENTATION AND PAYMENT SCHEDULE:** The MHTC agrees to reimburse the Subrecipient for accomplishment of all authorized activities performed under this contract. Reimbursement proceedings will be initiated upon the receipt of a claim voucher and supporting documentation from the Subrecipient, as required by the MHTC. The voucher must reflect actual costs and work accomplished during the project period, to be submitted on the appropriate MHTC certified payroll form or in a format approved by the MHTC, and shall include project number, project period, hours worked, rate of pay, any other allowable expenditures, and must be signed by the person preparing the voucher and the project director or authorizing official. Vouchers should be received by the MHTC within ten (10) working days from the date of the authorizing official/project director's signature. Subrecipient should report monthly, or at least quarterly, to MHTC using the online Grant Management System. For projects where salaried positions are awarded, claim voucher and activity reports must be submitted *monthly*. Subrecipient must ensure complete, accurate and final voucher and supporting documentation is received by the MHTC no later than November 15, which is after the end of the Federal fiscal year for which the final voucher pertains. Final payment is contingent upon receipt of the complete, accurate and final voucher.
- C. ACCOUNTING:** The Subrecipient shall maintain all documentation in file for audit review; failure to provide supporting documentation at the time of audit could result in questioned costs. The Subrecipient must document the following: (1) Receipt of federal funds, (2) date and amount paid to employees, (3) employee's timesheet (regular hours and overtime hours). Documentation shall be kept available for inspection for representatives of the MHTC for a period of three years following date of final payments. Copies of such records shall be made available upon request.
- D. OMB AUDIT:** A subrecipient that expends \$750,000 or more during the subrecipient's fiscal year in Federal awards must have a single audit conducted in accordance with §200.514 Scope of audit except when it elects to have a program-specific audit conducted in accordance with paragraph (c) of 2 CFR §200.501. A copy of the Audit report shall be submitted to MoDOT within the earlier of thirty (30) days after receipt of the auditor's report(s), or nine (9) months after the end of the audit period. A subrecipient that expends less than \$750,000 during the subrecipient's fiscal year in Federal awards is exempt from Federal audit requirements for that year, except as noted in 2 CFR §200.503 Relation to other audit requirements, but records must be available for review or audit by appropriate officials of the Federal agency, pass-through entity, and Government Accountability Office (GAO). Failure to furnish an acceptable audit may be basis for refunding federal funds to the MHTC. Cost records and accounts pertaining to the work covered by this contract shall be kept available for inspection for representatives of the MHTC for a period of three (3) years following date of final payments. Copies of such records shall be made available upon request.

**VI. FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT (FFATA)**

The State will comply with FFATA guidance, OMB Guidance on FFATA Subaward and Executive Compensation Reporting, August 27, 2010,

([https://www.fsrs.gov/documents/OMB\\_Guidance\\_on\\_FFATA\\_Subaward\\_and\\_Executive\\_Compensation\\_Reporting\\_08272010.pdf](https://www.fsrs.gov/documents/OMB_Guidance_on_FFATA_Subaward_and_Executive_Compensation_Reporting_08272010.pdf)) by reporting to FSRS.gov for each sub-grant awarded:

- A.** Name of the entity receiving the award;
- B.** Amount of the award;
- C.** Information on the award including transaction type, funding agency, the North American Industry Classification System code or Catalog of Federal Domestic Assistance (or "Assistance Listings") number (where applicable), program source;



- D. Location of the entity receiving the award and the primary location of performance under the award, including the city, State, congressional district, and country; and an award title descriptive of the purpose of each funding action;
- E. Unique entity identifier (generated by *SAM.gov*);
- F. The names and total compensation of the five most highly compensated officers of the entity if :
  - A. the entity in the preceding fiscal year received-
    - a. 80 percent or more of its annual gross revenues in Federal awards;
    - b. \$25,000,000 or more in annual gross revenues from Federal awards; and
  - B. the public does not have access to information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986;
- G. Other relevant information specified by OMB guidance.

**VII. TERMINATION**

If, through any cause, the Subrecipient shall fail to fulfill in timely and proper manner its obligation under this contract, or if the Subrecipient shall violate any of the covenants, agreements or stipulations of this contract, the MHTC shall thereupon have the right to terminate this contract and withhold further payment of any kind by giving written notice to the Subrecipient of such termination and specifying the effective date thereof, at least thirty (30) days before such date. The MHTC shall be the sole arbitrator of whether the Subrecipient or its subcontractor is performing its work in a proper manner with reference to the quality of work performed by the Subrecipient -or its subcontractor under the provisions of this contract, if an award no longer effectuates the program goals or MHTC priorities. The Subrecipient and the MHTC further agree that this contract may be terminated by either party by giving written notice of such termination and specifying the effective date thereof, at least thirty (30) days before such date, and in the case of partial termination the portion of the award to be terminated.

**VIII. NONDISCRIMINATION**

**(Applies to subrecipients as well as States)**

The State highway safety agency will comply with all Federal statutes and implementing regulations relating to nondiscrimination ("Federal Nondiscrimination Authorities"). These include but are not limited to:

- **Title VI of the Civil Rights Act of 1964** (42 U.S.C. 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- **49 CFR part 21** (entitled Non-discrimination in Federally-Assisted Programs of the Department of Transportation-Effectuation of Title VI of the Civil Rights Act of 1964); **28 CFR 50.3** (U.S. Department of Justice Guidelines for Enforcement of Title VI of the Civil Rights Act of 1964);
- **The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970**, (42 U.S.C. 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- **Federal-Aid Highway Act of 1973**, (23 U.S.C. 324 *et seq.*), and **Title IX of the Education Amendments of 1972**, as amended (20 U.S.C. 1681-1683 and 1685-1686) (prohibit discrimination on the basis of sex);
- **Section 504 of the Rehabilitation Act of 1973**, (29 U.S.C. 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability) and 49 CFR part 27;
- **The Age Discrimination Act of 1975**, as amended, (42 U.S.C. 6101 *et seq.*), (prohibits discrimination on the basis of age);
- **The Civil Rights Restoration Act of 1987**, (Pub. L. 100-209), (broadens scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal aid recipients, sub-recipients and contractors, whether such programs or activities are Federally-funded or not);
- **Titles II and III of the Americans with Disabilities Act** (42 U.S.C. 12131-12189) (prohibits discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing) and 49 CFR parts 37 and 38;
- **Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations** (prevents discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations);

- **Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency** (guards against Title VI national origin discrimination/discrimination because of limited English proficiency (LEP) by ensuring that funding recipients take reasonable steps to ensure that LEP persons have meaningful access to programs (70 FR at 74087 to 74100);
- **Executive Order 13985, Advancing Racial Equity and Support for Underserved Communities through the Federal Government** (advancing equity across the Federal Government); and
- **Executive Order 13988, Preventing and Combating Discrimination on the Basis of Gender Identity or Sexual Orientation** (clarifying that sex discrimination includes discrimination on the grounds of gender identity or sexual orientation).

The preceding statutory and regulatory cites hereinafter are referred to as the "Acts" and "Regulations," respectively.

#### General Assurances

In accordance with the Acts, the Regulations, and other pertinent directives, circulars, policy, memoranda, and/or guidance, the Recipient hereby gives assurance that it will promptly take any measures necessary to ensure that:

*"No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity, for which the Recipient receives Federal financial assistance from DOT, including NHTSA."*

The Civil Rights Restoration Act of 1987 clarified the original intent of Congress, with respect to Title VI of the Civil Rights Act of 1964 and other non-discrimination requirements (the Age Discrimination Act of 1975, and Section 504 of the Rehabilitation Act of 1973), by restoring the broad, institutional-wide scope and coverage of these nondiscrimination statutes and requirements to include all programs and activities of the Recipient, so long as any portion of the program is Federally assisted.

#### Specific Assurances

More specifically, and without limiting the above general Assurance, the Recipient agrees with and gives the following Assurances with respect to its Federally assisted Highway Safety Grant Program:

- A. The Recipient agrees that each "activity," "facility," or "program," as defined in § 21.23(b) and (e) of 49 CFR part 21 will be (with regard to an "activity") facilitated, or will be (with regard to a "facility") operated, or will be (with regard to a "program") conducted in compliance with all requirements imposed by, or pursuant to the Acts and the Regulations.
- B. The Recipient will insert the following notification in all solicitations for bids, Requests For Proposals for work, or material subject to the Acts and the Regulations made in connection with all Highway Safety Grant Programs and, in adapted form, in all proposals for negotiated agreements regardless of funding source:  
*"The [name of Recipient], in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award."*
- C. The Recipient will insert the clauses of appendix A and E of DOT Order 1050.2A in every contract or agreement subject to the Acts and the Regulations.
- D. The Recipient will insert the clauses of appendix B of DOT Order 1050.2A, as a covenant running with the land, in any deed from the United States effecting or recording a transfer of real property, structures, use, or improvements thereon or interest therein to a Recipient.
- E. That where the Recipient receives Federal financial assistance to construct a facility, or part of a facility, the Assurance will extend to the entire facility and facilities operated in connection therewith.
- F. That where the Recipient receives Federal financial assistance in the form of, or for the acquisition of, real property or an interest in real property, the Assurance will extend to rights to space on, over, or under such property.

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- G. That the Recipient will include the clauses set forth in appendix C and appendix D of DOT Order 1050.2A, as a covenant running with the land, in any future deeds, leases, licenses, permits, or similar instruments entered into by the Recipient with other parties:
  - 1. for the subsequent transfer of real property acquired or improved under the applicable activity, project, or program; and
  - 2. for the construction or use of, or access to, space on, over, or under real property acquired or improved under the applicable activity, project, or program.
- H. That this Assurance obligates the Recipient for the period during which Federal financial assistance is extended to the program, except where the Federal financial assistance is to provide, or is in the form of, personal property, or real property, or interest therein, or structures or improvements thereon, in which case the Assurance obligates the Recipient, or any transferee for the longer of the following periods:
  - 1. the period during which the property is used for a purpose for which the Federal financial assistance is extended, or for another purpose involving the provision of similar services or benefits; or
  - 2. the period during which the Recipient retains ownership or possession of the property.
- I. The Recipient will provide for such methods of administration for the program as are found by the Secretary of Transportation or the official to whom he/she delegates specific authority to give reasonable guarantee that it, other recipients, sub-recipients, sub-grantees, contractors, subcontractors, consultants, transferees, successors in interest, and other participants of Federal financial assistance under such program will comply with all requirements imposed or pursuant to the Acts, the Regulations, and this Assurance.
- J. The Recipient agrees that the United States has a right to seek judicial enforcement with regard to any matter arising under the Acts, the Regulations, and this Assurance.

### IX. **STATUTORY AND REGULATORY REQUIREMENTS**

#### A. **COMPLIANCE:** The Subrecipient must comply with the following Statutes or Rules:

- 1. Peace Officer Standards and Training (P.O.S.T.) Chapter 590 RSMo Department of Public Safety (DPS) certification of peace officers
- 2. Crash Reporting Chapter 43.250 RSMo - Law enforcement officers to file all crash reports with Missouri State Highway Patrol (MSHP).
- 3. Uniform Crime Reporting Chapter 43.505 RSMo - Crime incident reports shall be submitted to DPS on forms or in format prescribed by DPS.
- 4. Racial Profiling Chapter 590.650 RSMo - Law enforcement agency to file a report to the Attorney General each calendar year.
- 5. US DOT AND OMB REGULATIONS: The Subrecipient shall comply with all requirements of 2 CFR Parts 200 and 1201.

#### X. **PRODUCTION & DEVELOPMENT COSTS** Items produced with federal funds are within the public domain and are not bound by copyright restrictions. All items produced with federal funds, in whole or in part, must acknowledge this by clearly indicating that MoDOT Highway Safety and Traffic funding supported this effort. Examples may include, but are not limited to, print materials; audio/video productions; and training aides such as curricula or workbooks. Any materials developed under this contract must be submitted to the MHTC for approval prior to final print and distribution. Copies of all final products are to be provided to the MHTC. The MHTC has the right to reproduce and distribute materials as the MHTC deems appropriate.

#### XI. **INDEMNIFICATION** Option 1 below only applies to State agencies, Cities, Counties and other political subdivisions or political corporations of the State of Missouri. Option 2 applies to all other entities (e.g. non-profit, private institutions).

##### OPTION 1:

- A. To the extent allowed or imposed by law, the Subrecipient shall defend, indemnify and hold harmless the MHTC, including its members and MoDOT employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the Subrecipient's wrongful or negligent performance of its obligations under this Agreement. The Subrecipient may satisfy this requirement utilizing a self-funded program.
- B. The Subrecipient will require any contractor procured by the Subrecipient to work under this Agreement :
  - 1. To obtain a no cost permit from the MHTC's district engineer prior to working on the MHTC's right-of-way, which shall be signed by an authorized contractor representative (a permit from the MHTC's district engineer will not be required for work outside of the MHTC's right-of-way); and

2. To carry commercial general liability insurance and commercial automobile liability insurance from a company authorized to issue insurance in Missouri, and to name the MHTC, and the MoDOT and its employees, as additional named insured's in amounts sufficient to cover the sovereign immunity limits for Missouri public entities as calculated by the Missouri Department of Insurance, Financial Institutions and Professional Registration, and published annually in the Missouri Register pursuant to Section 537.610, RSMo.
- C. In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either party's rights or defenses with regard to each party's applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitution or law.

**OPTION 2:**

The Subrecipient shall defend, indemnify and hold harmless the MHTC, including its members and the MoDOT employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the Subrecipient's performance of its obligations under this Agreement.

- XII. **AMENDMENTS** The Budget Proposal within this Agreement may be revised by the Subrecipient and the MHTC subject to the MHTC's approval without a signed amendment as long as the total contract amount is not altered and /or the intended scope of the project does not change. Prior to any revision being made to the Budget Proposal, Subrecipient shall submit a written or email request to the MHTC requesting the change. Any other change in this Agreement, whether by modification or supplementation, must be accomplished by a formal contract amendment signed and approved by the duly authorized representative of the Subrecipient and the MHTC. All final modification requests must be submitted no later than September 30 of the project fiscal year.
- XIII. **MHTC REPRESENTATIVE** The MoDOT Highway Safety and Traffic Division Director is designated as the MHTC's representative for the purpose of administering the provisions of this Agreement. The MHTC's representative may designate by written notice other persons having the authority to act on behalf of the MHTC in furtherance of the performance of this Agreement.
- XIV. **ASSIGNMENT** The Subrecipient shall not assign, transfer, or delegate any interest in this Agreement without the prior written consent of the MHTC.
- XV. **LAWS OF MISSOURI TO GOVERN** This Agreement shall be construed according to the laws of the State of Missouri. The Subrecipient shall comply with all local, state and federal laws and regulations relating to the performance of this Agreement.
- XVI. **VENUE** It is agreed by the parties that any action at law, suit in equity, or other judicial proceeding to enforce or construe this agreement, or regarding its alleged breach, shall be instituted only in the Circuit Court of Cole County, Missouri.
- XVII. **SECTION HEADINGS** All section headings contained in this Agreement are for the convenience of reference only and are not intended to define or limit the scope of any provision of this Agreement.
- XVIII. **NONSEGREGATED FACILITIES** (Applicable to contracts over \$10,000) Subrecipient and its subcontractors, suppliers and vendors, should meet Federal requirements regarding nonsegregated facilities.

**XIX. FUNDING ORIGINATION AND AUDIT INFORMATION**

The MHTC funds the following NHTSA program areas:

| <u>Section</u> | <u>Assistance Listing #</u> | <u>Program Title</u>                        |
|----------------|-----------------------------|---------------------------------------------|
| 402            | 20.600                      | State and Community Highway Safety Programs |
| 154            | 20.607                      | Alcohol Open Container Requirements         |
| 405b           | 20.616                      | National Priority Safety Programs           |
| 405c           | 20.616                      | National Priority Safety Programs           |
| 405d           | 20.616                      | National Priority Safety Programs           |
| 405e           | 20.616                      | National Priority Safety Programs           |
| 405f           | 20.616                      | National Priority Safety Programs           |
| 405g           | 20.616                      | National Priority Safety Programs           |
| 405h           | 20.616                      | National Priority Safety Programs           |
| 405i           | 20.616                      | National Priority Safety Programs           |

**XX. THE DRUG-FREE WORKPLACE ACT OF 1988 (41 U.S.C. 8103)**

**(Applies to subrecipients as well as States)**

The State will provide a drug-free workplace by:

- A.** Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the Subrecipient's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- B.** Establishing a drug-free awareness program to inform employees about:
  1. The dangers of drug abuse in the workplace.
  2. The Subrecipient's policy of maintaining a drug-free workplace.
  3. Any available drug counseling, rehabilitation, and employee assistance programs.
  4. The penalties that may be imposed upon employees for drug violations occurring in the workplace.
  5. Making it a requirement that each employee engaged in the performance of the grant be given a copy of the statement required by paragraph (A).
- C.** Notifying the employee in the statement required by paragraph (A) that, as a condition of employment under the grant, the employee will:
  - a. Abide by the terms of the statement.
  - b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five days after such conviction.
- D.** Notifying the agency within ten days after receiving notice under subparagraph (C)(b) from an employee or otherwise receiving actual notice of such conviction.
- E.** Taking one of the following actions, within 30 days of receiving notice under subparagraph (C)(b), with respect to any employee who is so convicted:
  - a. Taking appropriate personnel action against such an employee, up to and including termination.
  - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency.
- F.** Making a good faith effort to continue to maintain a drug-free workplace through implementation of all of the paragraphs above.

**XXI. POLITICAL ACTIVITY (HATCH ACT)**

**(Applies to subrecipients as well as States)**

The State will comply with provisions of the Hatch Act (5 U.S.C. 1501-1508), which limits the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

**XXII. CERTIFICATION REGARDING FEDERAL LOBBYING**

**(Applies to subrecipients as well as States)**

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

- A. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- B. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- C. The undersigned shall require that the language of this certification be included in the award documents for all sub-award at all tiers (including subcontracts, subgrants, and contracts under grant, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

**XXIII. RESTRICTION ON STATE LOBBYING**

**(Applies to subrecipients as well as States)**

None of the funds under this program will be used for any activity specifically designed to urge or influence a State or local legislator to favor or oppose the adoption of any specific legislative proposal pending before any State or local legislative body. Such activities include both direct and indirect (e.g., "grassroots") lobbying activities, with one exception. This does not preclude a State official whose salary is supported with NHTSA funds from engaging in direct communications with State or local legislative officials, in accordance with customary State practice, even if such communications urge legislative officials to favor or oppose the adoption of a specific pending legislative proposal.

**XXIV. CERTIFICATION REGARDING DEBARMENT AND SUSPENSION**

**(Applies to subrecipients as well as States)**

Instructions for Primary Tier Participant Certification (States)

- A. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below and agrees to comply with the requirements of 2 CFR Parts 180 and 1200.
- B. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
- C. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default or may pursue suspension or debarment.

- D. The prospective primary tier participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- E. The terms *covered transaction*, *debarment*, *suspension*, *ineligible*, *lower tier*, *participant*, *person*, *primary tier*, *principal*, and *voluntarily excluded*, as used in this clause, have the meaning set out in the Definitions and Coverage sections of 2 CFR Part 180 and 1200. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
- F. The prospective primary tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by NHTSA.
- G. The prospective primary tier participant further agrees by submitting this proposal that it will include the clause titled "Instructions for Lower Tier Certification" including the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions and will require lower tier participants to comply with 2 CFR Parts 180 and 1200.
- H. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the System for Award Management Exclusions website (<https://www.sam.gov/>).
- I. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- J. Except for transactions authorized under paragraph F of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate the transaction for cause or default.

*Certification Regarding Debarment, Suspension, and Other Responsibility Matters-Primary Tier Covered Transactions:*

- 1. The prospective primary tier participant certifies to the best of its knowledge and belief, that its principals:
  - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency;
  - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining , attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of record, making false statements, or receiving stolen property;
  - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.
- 2. Where the prospective primary participant is unable to certify to any of the Statements in this certification, such prospective participant shall attach an explanation to this proposal.

Instructions for Lower Tier Participant Certification

- A. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below and agrees to comply with the requirements of 2 CFR Parts 180 and 1200.

- B. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- C. The prospective lower tier participant shall provide immediate written notice to the person to whom this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- D. The terms *covered transaction, civil judgment, debarment, suspension, ineligible, participant, person, principal, and voluntarily excluded*, as used in this clause, are defined in 2 CFR parts 180 and 1200. You may contact the person to whom this proposal is submitted for assistance in obtaining a copy of those regulations.
- E. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- F. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled "Instructions for Lower Tier Certification" including the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions and will require lower tier participants to comply with 2 CFR Parts 180 and 1200.
- G. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any prospective lower tier participants, each participant may, but is not required to, check the System for Award Management Exclusions website (<https://www.sam.gov>).
- H. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- I. Except for transactions authorized under paragraph E of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension or debarment.

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Lower Tier Covered Transactions:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**XXV. BUY AMERICA ACT**

**(Applies to subrecipients as well as States)**

The State and each subrecipient will comply with the Buy America requirement (23 U.S.C. 313) when purchasing items using Federal funds. Buy America requires a State, or subrecipient, to purchase only steel, iron and manufactured products produced in the United States with Federal funds, unless the Secretary of Transportation determines that such domestically produced items would be inconsistent with the public interest, that such materials are not reasonably available and of a satisfactory quality, or that inclusion of domestic materials will increase the



cost of the overall project contract by more than 25 percent. In order to use Federal funds to purchase foreign produced items, the State must submit a waiver request that provides an adequate basis and justification to and approved by the Secretary of Transportation.

All items purchased must be compliant with the National Highway Traffic Safety Administration (NHTSA) interpretation of the Buy America Act including, but not limited to:

1. Items valued over \$5,000 per unit must be manufactured or assembled in the United States of America, or as allowed by a current Buy America Act waiver issued by the NHTSA;
2. All vehicles, motorcycles, trailers, and other similar conveyances must be manufactured or assembled in the United States of America regardless of cost.

<https://www.nhtsa.gov/sites/nhtsa.gov/files/buy-america-act-revised-11202015.pdf>

Furthermore, the State and each subrecipient will follow the guidelines of 2 C.F.R. § 200.322, Domestic Preferences for Procurements. As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States.

**XXVI. PROHIBITION ON USING GRANT FUNDS TO CHECK FOR HELMET USAGE**  
**(Applies to subrecipients as well as States)**

The State and each subrecipient will not use 23 U.S.C. Chapter 4 grant funds for programs to check helmet usage or to create checkpoints that specifically target motorcyclists.

**XXVII. POLICY ON SEAT BELT USE**

In accordance with Executive Order 13043, Increasing Seat Belt Use in the United States, dated April 16, 1997, the Subrecipient is encouraged to adopt and enforce on-the-job seat belt use policies and programs for its employees when operating company-owned, rented, or personally-owned vehicles. The National Highway Traffic Safety Administration (NHTSA) is responsible for providing leadership and guidance in support of this Presidential initiative. For information and resources on traffic safety programs and policies for employers, please contact the Network of Employers for Traffic Safety (NETS), a public-private partnership dedicated to improving the traffic safety practices of employers and employees. You can download information on seat belt programs, costs of motor vehicle crashes to employers, and other traffic safety initiatives at [www.trafficsafety.org](http://www.trafficsafety.org). The NHTSA website ([www.nhtsa.gov](http://www.nhtsa.gov)) also provides information on statistics, campaigns, and program evaluations and references.

**XXVIII. POLICY ON BANNING TEXT MESSAGING WHILE DRIVING**

In accordance with Executive Order 13513, Federal Leadership On Reducing Text Messaging While Driving, and DOT Order 3902.10, Text Messaging While Driving, States are encouraged to adopt and enforce workplace safety policies to decrease crashes caused by distracted driving, including policies to ban text messaging while driving company-owned or -rented vehicles, Government-owned, leased or rented vehicles, or privately-owned when on official Government business or when performing any work on or behalf of the Government. States are also encouraged to conduct workplace safety initiatives in a manner commensurate with the size of the business, such as establishment of new rules and programs or re-evaluation of existing programs to prohibit text messaging while driving, and education, awareness, and other outreach to employees about the safety risks associated with texting while driving.

**XXIX. PARTICIPATION IN HIGHWAY SAFETY PARTNERSHIPS**

All subrecipients are strongly encouraged to participate in Highway Safety sponsored functions including, but not limited to, Missouri Coalition for Roadway Safety regional meetings, applicable subcommittees and conferences; working groups; dedicated enforcement workshops; and grant application and contract award workshops. Subrecipient agencies with positions that are funded via Highway Safety grants are expected to participate (or send a representative) in the above functions as much as possible.

**XXX. PROHIBITION ON TELECOMMUNICATIONS AND VIDEO SURVEILLANCE**

The National Defense Authorization Act of Fiscal Year 2019 (Pub. L. 115-232) prohibits Federal grant funds from being obligated or expended to procure or obtain (or to enter into, extend, or renew a contract to procure or obtain) certain covered telecommunications equipment, services, or systems. States and subrecipients should refer to the Super Circular for more information on what equipment and companies this prohibition covers.

Equipment regularly purchased under NHTSA grants that may be subject to this provision could include : mobile phones, landlines, and the internet. Note that this provision prohibits purchasing these (and other) items produced by certain companies; items produced by non-prohibited companies are still potentially allowable.

**XXXI. CERTIFICATION ON CONFLICT OF INTEREST**

**(Applies to subrecipients as well as States)**

**General Requirements**

No employee, officer or agent of a State or its subrecipient who is authorized in an official capacity to negotiate , make, accept or approve, or to take part in negotiating, making, accepting or approving any subaward, including contracts or subcontracts, in connection with this grant shall have, directly or indirectly, any financial or personal interest in any such subaward. Such a financial or personal interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or personal interest in or a tangible personal benefit from an entity considered for a subaward. Based on this policy:

- A.** The recipient shall maintain a written code or standards of conduct that provide for disciplinary actions to be applied for violations of such standards by officers, employees, or agents.
  - 1.** The code or standards shall provide that the recipient's officers, employees, or agents may neither solicit nor accept gratuities, favors, or anything of monetary value from present or potential subawardees, including contractors or parties to subcontracts.
  - 2.** The code or standards shall establish penalties, sanctions or other disciplinary actions for violations, as permitted by State or local law or regulations.
- B.** The recipient shall maintain responsibility to enforce the requirements of the written code or standards of conduct.

**Disclosure Requirements**

No State or its subrecipient, including its officers, employees or agents, shall perform or continue to perform under a grant or cooperative agreement, whose objectivity may be impaired because of any related past, present, or currently planned interest, financial or otherwise, in organizations regulated by NHTSA or in organizations whose interests may be substantially affected by NHTSA activities. Based on this policy:

- A.** The recipient shall disclose any conflict of interest identified as soon as reasonably possible, making an immediate and full disclosure in writing to NHTSA. The disclosure shall include a description of the action which the recipient has taken or proposes to take to avoid or mitigate such conflict.
- B.** NHTSA will review the disclosure and may require additional relevant information from the recipient . If a conflict of interest is found to exist, NHTSA may (a) terminate the award, or (b) determine that it is otherwise in the best interest of NHTSA to continue the award and include appropriate provisions to mitigate or avoid such conflict .
- C.** Conflicts of interest that require disclosure include all past, present or currently planned organizational, financial, contractual or other interest(s) with an organization regulated by NHTSA or with an organization whose interests may be substantially affected by NHTSA activities, and which are related to this award. The interest(s) that require disclosure include those of any recipient, affiliate, proposed consultant, proposed subcontractor and key personnel of any of the above. Past interest shall be limited to within one year of the date of award. Key personnel shall include any person owning more than a 20 percent interest in a recipient, and the officers, employees or agents of a recipient who are responsible for making a decision or taking an action under an award where the decision or action can have an economic or other impact on the interests of a regulated or affected organization .

## CONTRACT REQUIREMENTS

### **THE FOLLOWING REQUIREMENTS ONLY APPLY TO CONTRACTS THAT INCLUDE TRAINING**

Subrecipients offering the MHTC-funded courses must adhere to the following standard elements required for training contracts:

- A. A course schedule must be presented to the MHTC program coordinator prior to the proposed training. The schedule should include: title of course; date(s); time; exact location; and agenda. Any changes to the course schedule must have prior approval from the MHTC.
- B. Each student must complete a survey form at the completion of the workshop/training. The survey will ask a series of questions concerning adequacy of: training received; instructor's presentation; training facility/location; and worth of the training.
- C. The Subrecipient must provide a sign-up sheet for every class when submitting a reimbursement request for the course (a typed list of everyone who registered is not acceptable). The sign-up sheet must capture the following information:
  - 1. Title of the class
  - 2. Date(s) and location of class
  - 3. Printed Name and signature of attendees (unless otherwise prohibited)
  - 4. Name of agency/organization of each attendee
- D. To ensure cost effectiveness, every effort should be made to enroll a minimum of fifteen (15) students per class. If the minimum number of students cannot be ensured, the subrecipient should contact the MHTC Highway Safety Office to seek approval to proceed with the class.
- E. Copies of the student evaluations, number of students enrolled/number of students attending, agenda/syllabus/curriculum, and participant sign-up sheets must be retained in Subrecipient's files after the training has been conducted and available for MHTC review upon request.

### **THE FOLLOWING REQUIREMENTS APPLY TO LAW ENFORCEMENT AGENCIES ONLY**

#### **A. PROBLEM IDENTIFICATION**

Subrecipient must develop a selected traffic enforcement plan by evaluating crash data involving fatal, disabling and moderate injuries. This will be done on an annual basis to determine the highest crash locations, to include: month of year, day of week, time of day, and causation factors. This plan must be used to determine locations utilized in site selection for conducting enforcement efforts. Any changes to the enforcement plan must be made in writing to the MHTC project coordinator in advance of enforcement efforts.

#### **B. PROJECT ACTIVITIES**

- 1. Enforcement activities by the Subrecipient must remain at the current level. Enforcement efforts provided by this contract must be in addition to current enforcement activities.
- 2. Officers will be permitted to issue multiple citations and/or written warnings to drivers who have committed several violations.
- 3. High visibility enforcement is a key strategy to reducing traffic crashes; therefore, law enforcement officers working overtime projects are strongly encouraged to make at least three (3) contacts per hour when conducting an enforcement project.
- 4. Subrecipient is expected to participate in associated national or state mobilization efforts in conjunction with, or at the direction of, the Highway Safety and Traffic Division. These mobilizations include, but are not limited to: Click It or Ticket campaign, Drive Sober or Get Pulled Over campaign, Youth Seat Belt enforcement campaign, Holiday Impaired Driving campaign, and quarterly enforcement efforts. Mobilization reporting efforts shall be completed using the online mobilization reporting form located at: <https://mobilization.rejis.org>.
- 5. Only law enforcement work performed by a duly licensed, Peace Officer Standards and Training (POST) certified law enforcement officer will be reimbursed.
- 6. The Subrecipient will not be eligible for reimbursement for any individual law enforcement officer working under this grant in excess of 40 hours for any two week pay period. The Subrecipient will not be eligible for reimbursement for any individual law enforcement officer working under this grant where said officer is claiming to have worked as a law enforcement officer for more than 16 hours in any 24 hour period.

#### **C. PARTNERSHIPS**

Law Enforcement agencies are strongly encouraged to participate in the Law Enforcement Traffic Safety Advisory Council (LETSAC) and attend the annual conference. Agencies located within the metropolitan areas of St. Louis or Kansas City should participate in Operation Impact or Operation Gateway (traffic safety task forces).

**D. ALLOWABLE COSTS**

Full-time, part-time and reserve officers are eligible to participate in overtime enforcement projects. Part-time and reserve officers must have the same authority as a full-time permanent officer. MHTC will reimburse Subrecipient at officer's standard rate of pay in accordance with Subrecipient policies and procedures regarding standard rate of pay and overtime rate of pay. The Subrecipient will not be reimbursed at the overtime rate for work that according to Subrecipient's own policies and procedures does not constitute overtime. Non-POST certified personnel may be allowed, at the sole discretion of MHTC, in a support/administrative role.

Exceptions to allowable costs may be made with prior written permission of the MHTC.

**E. DRUNK DRIVING ENFORCEMENT PROJECTS**

1. Those officers conducting standardized field sobriety testing must have 24 hours of Standardized Field Sobriety Test training to participate in grant funded enforcement efforts.
2. Agency should participate in quarterly enforcement efforts and the national impaired driving crackdowns held annually.

**F. SOBRIETY CHECKPOINTS**

Unless otherwise prohibited by state statute or appropriation,

1. The MHTC will fund enforcement agencies to conduct sobriety checkpoints in accordance with standards outlined in the Sobriety Checkpoint Reference Manual and the Sobriety Checkpoint Supervisor Training program.
2. Sobriety checkpoint enforcement efforts must be coupled with appropriate public information efforts to increase the perceived risk of arrest and to enhance the actual risk of arrest.
3. Enforcement statistics and the agency's sobriety checkpoint operations plan must be submitted with reimbursement vouchers.

**G. PURSUIT POLICIES**

Law enforcement agencies are encouraged to follow the guidelines established for vehicular pursuits issued by the International Association of Chiefs of Police that are currently in effect. (23 U.S.C. 402(j))

## PROBLEM IDENTIFICATION

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Substance-impaired drivers contributed to 22% of Missouri's traffic crash fatalities during the past five years. Alcohol remains the primary contributor to substance-impaired driving crashes; however, the number of persons under the influence of prescription medications and/or illicit drugs has increased significantly over the past decade. With recreational marijuana now legal in Missouri, there are concerns this trend will continue.

Male drivers were more likely than females to be involved in substance-impaired driving crashes. During the past five years, males were responsible for 81.7% of substance-impaired driving fatalities. Ten percent of the children less than 15 years of age, who were killed in motor vehicle crashes over the last five years, were riding with a substance-impaired driver.

Depending on the jurisdiction, impaired driving offenses in Missouri are prosecuted differently. Prosecutors and judges may not always be aware of the severity of the impaired driving problem or how to best provide treatment for an offender.

Impaired driving will not only put you or your passengers in danger but also others sharing the road with you. When alcohol and drugs are consumed, reaction time slows and reflexes diminish. It becomes harder to concentrate and vision is impaired. It is incredibly unsafe for anyone to operate a motor vehicle in this condition.

The City of Neosho has a population of 12,687 (according to the 2021 U.S. Census Bureau) and multiple schools, businesses, restaurants, and state highway systems are located within it. This increases the number of pedestrians our city has crossing streets and also the number of drivers we see on the roadways. Impaired drivers create dangerous circumstances for everyone they encounter on the roadway.

According to the Missouri State Highway Patrol 2022 Crash Statistics, there were a total of 20 alcohol and drug-involved crashes reported by the Neosho Police Department. Of those 20 alcohol and drug-involved crashes, there were 15 people injured and 1 fatality as a result.

The Neosho Police Department made 68 DWI arrests in 2022 and 91 DWI arrests in 2023. The more DWI arrests made prevents impaired driving crashes.

## GOALS/OBJECTIVES

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### Core Performance Measure Goal:

Based on a goal of 0 fatalities by 2030, Missouri is setting a five-year average alcohol-involved fatality target of 232.6 by December 31, 2026.

### Core Performance Measure Goals:

The Neosho Police Department ultimately strives to have 0 fatalities and 0 serious injuries as a result of crashes by 2035. This would allow just over 10 years to implement our enforcement goals and make adjustments to aid in reaching 0 fatal and serious injury crashes.

According to the Missouri State Highway Patrol 2022 Crash Statistics, there were a total of 20 alcohol and drug involved crashes reported by the Neosho Police Department. Of those 20 alcohol and drug involved crashes, there were 15 people injured and 1 fatality.

Based on a goal of 0 fatalities by 2030, Neosho Police Department is setting a five-year average serious injury target of 7.5 based on agency statistics.

Based on a goal of 0 fatalities by 2030, Neosho Police Department is setting a five-year average fatality target of .5 based on agency statistics.

The goal and objective is to decrease alcohol and drug related crashes by increasing traffic enforcement and visibility .

## PROJECT DESCRIPTION

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The Neosho Police Department plans to increase the number of traffic stops for any traffic violations during grant-funded enforcement activities to make the roadways safer for the community that we serve. In making these traffic stops, the department hopes to remove impaired drivers off the roadway for their safety and the safety of others around them. Patrol officers will conduct special details to saturate and prevent drinking and driving. The department plans to assign 3-4 officers to patrol all areas within the city limits of Neosho, especially those with a high volume of traffic such as state highway systems and their intersections. The scheduling of these details will take into account holidays and weekends since a high number of impaired drivers are often out during these times. This will require overtime compensation for the officers.

## SUPPLEMENTAL INFORMATION

| <u>Question</u>                                                                                                                                                                                                                                                                                                                                                                  | <u>Answer</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| You must answer the following questions.                                                                                                                                                                                                                                                                                                                                         |               |
| 1 Does your agency have and enforce an internal safety belt policy for all personnel?                                                                                                                                                                                                                                                                                            | Yes           |
| 2 Does your agency have and enforce a policy restricting cell phone use while driving?                                                                                                                                                                                                                                                                                           | Yes           |
| 3 Does your agency report racial profiling data annually?                                                                                                                                                                                                                                                                                                                        | Yes           |
| 4 Does your agency report to MOCARS?                                                                                                                                                                                                                                                                                                                                             | Yes           |
| 5 Does your agency report MIBRS information annually?                                                                                                                                                                                                                                                                                                                            | Yes           |
| 6 Please explain any NO answer(s) to questions 1-5:                                                                                                                                                                                                                                                                                                                              |               |
| 7 Have any of your officers/personnel been debarred and are therefore not eligible to receive federal funds for reimbursement of salary, fringe benefits, or overtime?                                                                                                                                                                                                           | No            |
| 8 Does your agency have adequate manpower to fully expend the funds requested in this application?                                                                                                                                                                                                                                                                               | Yes           |
| 9 If NO, please explain.                                                                                                                                                                                                                                                                                                                                                         |               |
| 10 Have any significant changes occurred with your agency within the last year that would affect performance, including personnel or system changes?                                                                                                                                                                                                                             | No            |
| 11 If YES, please explain.                                                                                                                                                                                                                                                                                                                                                       |               |
| 12 Are you aware of any fraud, waste or abuse on grant projects in your office/agency within the last 5 years?                                                                                                                                                                                                                                                                   | No            |
| 13 If YES, please explain.                                                                                                                                                                                                                                                                                                                                                       |               |
| 14 If your agency received Highway Safety grant funding in the last three (3) fiscal years and there were unexpended balances, please explain why.<br><br>The award for the previous year was not used due to major personnel shortages. A majority of our officers were working overtime for shift coverage on a weekly basis and had no way to work any additional overtime.   |               |
| 15 Did your political entity receive more than 80% of its annual gross revenues in Federal Awards in your preceding fiscal year?                                                                                                                                                                                                                                                 | No            |
| 16 Did your political entity receive \$25,000,000 or more in Federal Awards in your preceding fiscal year?                                                                                                                                                                                                                                                                       | No            |
| 17 If you answered NO to either question 15 and 16, DO NOT answer this question. If you answered YES to both question 15 and 16, and the public does not have access to this information, list the names and compensation amounts of the five most highly compensated employees in your business or organization (the legal entity to which the UEI number it provided belongs). |               |



Please use the most current 12-months of data available for answering questions 18-23. INCLUDE ALL OF YOUR AGENCY'S STATISTICS, NOT JUST THOSE ISSUED DURING GRANT ACTIVITY.

|    |                                                                             |     |
|----|-----------------------------------------------------------------------------|-----|
| 18 | Total number of DWI violations written by your agency.                      | 91  |
| 19 | Total number of speeding citations written by your agency.                  | 446 |
| 20 | Total number of HMV citations written by your agency.                       | 191 |
| 21 | Total number of child safety/booster seat citations written by your agency. | 0   |
| 22 | Total number of safety belt citations written by your agency.               | 0   |
| 23 | Total number of warnings issued.                                            | 699 |

Use the most current three years crash data from the Missouri State Highway Patrol (MSHP) or your internal record management system for questions 24-34.

|    |                                                                                |     |
|----|--------------------------------------------------------------------------------|-----|
| 24 | Total number of traffic crashes.                                               | 258 |
| 25 | Total number of traffic crashes resulting in a fatality.                       | 0   |
| 26 | Total number of traffic crashes resulting in a serious injury.                 | 86  |
| 27 | Total number of speed-related traffic crashes.                                 | 13  |
| 28 | Total number of speed-related traffic crashes resulting in a fatality.         | 0   |
| 29 | Total number of speed-related traffic crashes resulting in a serious injury.   | 7   |
| 30 | Total number of alcohol-related traffic crashes.                               | 16  |
| 31 | Total number of alcohol-related traffic crashes resulting in a fatality.       | 0   |
| 32 | Total number of alcohol-related traffic crashes resulting in a serious injury. | 0   |
| 33 | Total number of unbuckled fatalities.                                          | 0   |
| 34 | Total number of unbuckled serious injuries.                                    | 0   |

Enter your agency's information below.

|    |                                                                                           |    |
|----|-------------------------------------------------------------------------------------------|----|
| 35 | Total number of commissioned law enforcement officers.                                    | 28 |
| 36 | Total number of commissioned patrol and traffic officers.                                 | 28 |
| 37 | Total number of commissioned law enforcement officers available for overtime enforcement. | 20 |
| 38 | Total number of vehicles available for enforcement.                                       | 12 |
| 39 | Total number of radars/lasers.                                                            | 16 |

- 40 Total number of in-car video cameras. 0
- 41 Total number of PBTs and/or oral fluid testing devices. Please indicate the number of each type of instrument.
- 1 - Intox DataMaster DMT  
14 - Portable Breath Testers
- 42 Total number of Breath Instruments. 15

The following information explains the strategies your agency will use to address the traffic crash problem . This information is considered to be the Project Description and should be specific to the crash problem.

- 43 Identify primary enforcement locations.
- All streets and highways within the city limits. The primary area of focus will be areas with heavier traffic due to businesses and highway systems.
- 44 Enter the number of enforcement periods your agency will conduct each month. 1
- 45 Enter the months in which enforcement will be conducted.
- All months of the year.
- 46 Enter the days of the week in which enforcement will be conducted.
- They could be conducted all days of the week. Weekends and Holidays will be the primary focus.
- 47 Enter the time of day in which enforcement will be conducted.
- They will be conducted in the evenings into early morning hours.
- 48 Enter the number of officers assigned during the enforcement period. 3
- 49 If equipment or supplies are requested to conduct this project, explain below why it is needed and how it will be used.
- N/A

## PROJECT EVALUATION

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The MHTC will administratively evaluate this project. Evaluation will be based, at a minimum, upon the following:

1. Law enforcement compliance with state UCR, Racial Profiling, and MOCARS reporting requirements (law enforcement contracts only)
2. Timely submission of monthly reimbursement vouchers and appropriate documentation to support reimbursement for expenditures (i.e., personal services, equipment, materials)
3. Timely submission of periodic reports (i.e., monthly, quarterly) as required
4. Timely submission of the Year End Report of activity (due within 30 days after contract completion date)
5. Attaining the Goals set forth in this contract
6. Accomplishing the Objectives\* established to meet the project Goals, such as:
  - Enforcement activities (planned activities compared with actual activities)
  - Programs (number and success of programs held compared to planned programs, evaluations if available)
  - Training (actual vs. anticipated enrollment, student evaluations of the class, student test scores on course examinations, location of classes, class cancellation information)
  - Equipment purchases (timely purchase of equipment utilized to support and enhance the traffic safety effort ; documentation of equipment use and frequency of use)
  - Public awareness activities (media releases, promotion events, or education materials produced or purchased)
  - Other (any other information or material that supports the Objectives)
7. The project will be evaluated by the Highway Safety and Traffic Division through annual crash analysis

Evaluation results will be used to determine:

- The success of this type of activity in general and this particular project specifically ;
- Whether similar activities should be supported in the future; and
- Whether grantee will receive funding for future projects

The Neosho Police Department will administratively evaluate this project. Evaluation will be based on the following:

Officers may volunteer for dedicated traffic enforcement assignments . To ensure all grant funding is utilized, officers will be assigned as necessary.

Evaluations will be conducted monthly and at the end of the project to determine if the goals and objectives outlined in this contract have been met.

## ADDITIONAL FUNDING SOURCES

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The only active grant at this time is the FY 2023 Patrick Leahy Bulletproof Vest Partnership (BVP) Program through the Bureau of Justice. The department was awarded \$4,619.93 to outfit 7 officers with new bulletproof vests. The funding started on April 1, 2023, and will come to completion on August 31, 2025.

BUDGET

| Category       | Item                   | Description                            | Quantity | Cost    | Total      | Local  | Total Requested |
|----------------|------------------------|----------------------------------------|----------|---------|------------|--------|-----------------|
| Personnel      |                        |                                        |          |         |            |        |                 |
|                | Overtime and/or Fringe | Overtime and fringe (appx. 100 hours). | 100.00   | \$50.00 | \$5,000.00 | \$0.00 | \$5,000.00      |
|                |                        |                                        |          |         | \$5,000.00 | \$0.00 | \$5,000.00      |
| Total Contract |                        |                                        |          |         | \$5,000.00 | \$0.00 | \$5,000.00      |

ATTACHMENTS

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| <u>Document Type</u> | <u>Description</u> | <u>Original File Name</u> | <u>Date Added</u> |
|----------------------|--------------------|---------------------------|-------------------|
| PDF                  | PDF Document       | Neosho Police Departme    | 02/15/2024        |

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Bill No 2024-82: Agreement with Missouri Sugars for Calculation of Sewer Service

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**ORIGINATING DEPARTMENT:** Finance Department

**ATTACHMENT:**

1. Bill No. 2024-82 Authorizing Wastewater Variance Agreement - Missouri Sugars
  2. Missouri Sugars Sewage Charge Agreement
- 

**PURPOSE:**

To obtain approval of variance to the code Section 705.440 for Missouri Sugars.

**BACKGROUND:**

Missouri Sugars has a separate account for sewer and at one time had a sewage flow meter installed. Due to the extreme heat and corrosive nature of the liquid sucrose, a sewage flow meter is unable to withstand the conditions of the environment it is placed in. Missouri Sugars has spoken to engineers and designers of sewage flow meters and is unable to locate a replacement for the meter that is inoperable. Much of the water used by Missouri Sugars in the manufacturing of liquid sucrose is shipped out of the facility on trucks and never enters the wastewater system. Staff worked with Missouri Sugars on a suitable solution to calculate the amount of water entering the wastewater system. The city attorney has drafted an agreement and Missouri Sugars has agreed to the terms.

The agreement will reduce the water consumed on the Missouri Sugar account that feeds the production facility by a calculation of the amount shipped each month. The resulting consumption will be applied to the sewer rates in effect and billed.

**RECOMMENDATION:**

Staff recommends Council approve the variance agreement and authorize the Mayor to sign.

**AN ORDINANCE** authorizing the City of Neosho, Missouri, to enter into a Wastewater Use Agreement for Variance on Measurement with Missouri Sugars, LLC, Missouri Limited Liability Company, for the purpose of issuing a variant method of calculation for wastewater usage and requiring certain water and liquid shipping reports; and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.

**WHEREAS**, Missouri Sugars, LLC, owns and/or operates property associated with a water and wastewater/sewer (“sewer” or “sewage”) usage provided by City; and

**WHEREAS**, the City Code of Ordinances Chapter 705 Sewers and Sewage Disposal, Article VI Service Charges sets out the regulations and methods for service charges related to sewage flow and use; and

**WHEREAS**, the rates and charges for such city services are set exclusively by the City Council pursuant to Section 705.400 Purpose of Cost-Recovery Charges; and

**WHEREAS**, for the purpose of equitable calculation on sewage usage by Missouri Sugars, LLC, the City Council has provided an alternative formula for calculating sewage flow of Missouri Sugars.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

**Section 1.** That the Agreement by and between the City of Neosho, Missouri, and Missouri Sugars, LLC, a Missouri Limited Liability Company, for the purpose of issuing a variant method of calculation for wastewater usage and requiring certain water and liquid shipping reports, a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit “A,” be and the same is hereby approved.

**Section 2.** That the Mayor of the City of Neosho, Missouri, is hereby authorized and directed to execute said Agreement by and on behalf of the City of Neosho.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

{Signature on Next Page.}

SEAL



APPROVED AS TO FORM:

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Derek A. Snyder, City Attorney

## **WASTEWATER USE AGREEMENT FOR VARIANCE ON MEASUREMENT**

**THIS WASTEWATER USE AGREEMENT FOR VARIANCE ON MEASUREMENT “Agreement”** by and between the **City of Neosho, Missouri**, a Missouri Municipal Corporation, hereinafter referred to as **“City”**, and **Missouri Sugars, LLC**, a Missouri Limited Liability Company, hereinafter collectively referred to as **“End User”**, is made and entered into this \_\_\_\_ day of \_\_\_\_\_ 2024.

### **W I T N E S S E T H:**

**WHEREAS**, End User owns and/or operates property associated with a water and wastewater/sewer (“sewer” or “sewage”) usage provided by City; and

**WHEREAS**, for the purpose of equitable calculation on sewage usage by End User, City has provided an alternative formula for calculating sewage flow of End User;

**NOW, THEREFORE**, in exchange for valuable consideration, each received from the others, the parties do hereby agree as follows:

1. Both City and End User agree that the City may adopt charges and fees for sewage use and that such charges can be changed by the City Council, including future councils with each year of appropriations.

2. That the parties mutually agree the volume and flow of sewage from End User is likely less than the volume and flow of water usage by End User.

3. That Section 705.440 Measurement of Sewage Flow sets out the method used by City for calculating the flow of sewage per user, which uses an estimated flow of water usage.

3. End User’s Sewage Account # is 008750-001 and water usage account is Account No. 008751-001. End User’s has an additional account 008751-002 that is not effected by this Agreement.

4. From the effective date of this Agreement until such time as terminated pursuant to this Agreement and/or the laws of the State of Missouri, the sewage use calculation for End User shall be as follows:

- a) The sewage flow on the above account will be calculated with water consumption of the account # 008751-001 less the water that is shipped out of the manufacturing facility in the form of sucrose or other sweetener products in the reports to be provided by End User.
- b) End User will supply a water shipped calculation monthly to the City. The report will include Liquid Load Bulk Liquid Logistics (“BOL”), Date Shipped, Product, Load Size, Brix Adjustment and Pounds of Water Shipped. The report will run from the seventh (7<sup>th</sup>) day of the preceding month to the sixth (6<sup>th</sup>) day of the current month to line up with the meter readings dates. The report will be emailed to the Neosho finance office no later than the tenth (10<sup>th</sup>) day of every month to update the consumption for billing.

- c) This report as well as supporting documentation will be available for audit and inspection at End User's facility periodically, but no less than annually, for inspection by the City. Such time for inspection of reports will be made as reasonably convenient to both parties.
- d) The City will convert pounds of water supplied in the monthly reports to gallons using a factor of 0.1215300 for the density of 130-degree Fahrenheit water. The factor will be multiplied by the monthly total of pounds of water shipped and converted to 1/100 for consistency with the City meter readings. The resulting gallons of water shipped will be deducted from the water usage of the account # 008751-001. The difference will be the sewer consumption for the End User Sewer only account 008750-001 and the bill calculated using the current monthly sewer service charge and rate per thousand (1,000) gallons as outlined in Section 705.450(B) 5 of the City of Neosho Code.
- e) The account 008751-002 is confirmed to be the tank washout area and all water flows into a drain and the city sewer system from this meter. This account will be charged sewer as outlined in Section 705.440 of the City of Neosho Code.

5. If End User fails or omits sending the water shipped calculation or it is not received in time to update the billing prior to printing (no later than the fifteenth (15<sup>th</sup>) day of each month), the sewer account 008750-001 account will be charged on total water consumed under account 008751-001. If inconsistencies arise in the reports the full amount of water usage will be charged.

6. Any new additional account opened by End User will be reviewed for sewer service and added to this Agreement or calculated using water consumed on that account as determined by inspection and communication between End User and The City of Neosho and approved by Council.

7. Either party may terminate this agreement upon thirty (30) day notice to the other party, with said notice delivered in writing to the business address of the other party.

8. This agreement does not amend any ordinances of the City of Neosho and is subject to annual appropriations and budget approval by the City Council.

9. If City files suit in order to enforce any term of this Agreement and is the prevailing party, End User shall be liable for City's reasonable attorney's fees and expenses. In no event shall City be liable for End User's reasonable attorney's fees and expenses.

10. This Agreement has been made, and its validity, performance and effect shall be determined, in accordance with the laws of the State of Missouri and venue for litigation between the parties shall be solely and exclusively in Newton County, Missouri.

11. This Agreement (including any Exhibits) contains the entire understanding of the parties with respect to the subject matter hereof. It may not be altered or amended except by an agreement in writing signed by both parties.

12. The signatories hereto represent and warrant that they have read this Agreement, that they are fully authorized in the capacities shown, that they understand the terms of this Agreement, and that they are executing the same voluntarily and solely for the

consideration described herein.

13. If any of the provisions of this Agreement shall be construed to be invalid or illegal, the legality or validity of the other provisions of this Agreement shall not be affected thereby. Any illegal or invalid provision of this Agreement shall be severable and any other provisions shall remain in full force and effect.

14. The terms herein are effective as of the date this Agreement is last executed.

**IN WITNESS WHEREOF**, the parties have set their hands the day and year stated above.

***CITY OF NEOSHO***

***MISSOURI SUGARS, LLC***

By: \_\_\_\_\_  
Richard Davidson, Mayor

By: \_\_\_\_\_  
Jason Giebler

Title:

***ATTEST:***

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

**“CITY”**

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM: Resolution Bill No. 2024-50: Contract with Springfield Striping and Sealing for Airport Runway, Taxiway, and Apron Repairs**

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**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Res. Bill No. 2024-50 Contract with Springfield Striping & Sealing - Airport Crack Sealing
  2. Agreement Neosho and Springfield Striping - Airport Crack Sealing
  3. Springfield Striping and Sealing Airport bid
- 

**PURPOSE:**

The purpose of this item is to gain the City Council's approval of a contract with Springfield Striping and Sealing to fill and repair cracks in the runway, taxiway, aprons of the Neosho Municipal Airport.

**BACKGROUND:**

The City Council approved Springfield Striping and Sealing's bid for three pavement repair projects at the municipal airport. This contract will complete the process and allow the projects to move forward.

**RECOMMENDATION:**

Staff recommends that the City Council authorizes the contract with Springfield Striping and Sealing.

**Resolution Bill No. 2024-50**

**A RESOLUTION of the City of Neosho, Missouri, approving an agreement with Springfield Sealing Service, Inc. d/b/a Springfield Striping & Sealing, a Missouri Corporation, for the purpose of providing Contractor services for crack sealing at the Neosho Hugh Robinson Airport for the not to exceed price of One Hundred One Thousand Six Hundred Twenty-Seven & 80/100 dollars (\$101,627.80) and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.**

**WHEREAS**, the City of Neosho sought bids for the crack sealing of the Airport Runway, Airport Taxiway and North Hangar Apron within the City of Neosho, Missouri; and

**WHEREAS**, Springfield Striping & Sealing, was awarded the bid on August 20, 2024.

**NOW, THEREFORE BE IT RESOLVED** by the City of Neosho, Missouri as follows:

That the Agreement for Construction Services by and between the City of Neosho, Missouri, and Springfield Sealing Service, Inc. d/b/a Springfield Striping & Sealing, a Missouri Corporation, for the purpose of providing Contractor services for crack sealing at the Neosho Hugh Robinson Airport for the not to exceed price of One Hundred One Thousand Six Hundred Twenty-Seven & 80/100 dollars (\$101,627.80), a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit "A," be and the same is hereby approved.

**BE IT FURTHER RESOLVED**, the Mayor is hereby authorized to execute all necessary documents to effectuate the same.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this 3rd day of September, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

THIS AGREEMENT, made this \_\_\_\_ day of September, 2024, by and between CITY OF NEOSHO, MISSOURI hereinafter called "OWNER" and SPRINGFIELD SEALING SERVICE, INC. doing business as SPRINGFIELD STRIPING & SEALING, hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The CONTRACTOR will commence and complete the crack sealing of Airport Runway 20,800 LF, Airport Taxiway 9,100 LF and North Hangar Apron 22,240 LF as described in the Bid Specifications for the Project, hereinafter called "PROJECT".

2. The CONTRACTOR will furnish all of the materials, supplies, tools, equipment, labor and other services necessary for the construction and completion of the PROJECT described herein.

3. The CONTRACTOR will commence the work required by the CONTRACT DOCUMENTS on the date as stipulated in the NOTICE TO PROCEED and will complete same within 30 consecutive calendar days unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.

4. The CONTRACTOR agrees to perform all of the WORK described in the CONTRACT DOCUMENTS and comply with the terms therein for the sum of ONE HUNDRED ONE THOUSAND SIX HUNDRED TWENTY-SEVEN & 80/100 DOLLARS (\$101,627.80), or as shown in the BID Schedule, including Alternate Bid Items.

5. The term "CONTRACT DOCUMENTS" means and includes the following:

- (A) Invitation\Advertisement to Bid
- (B) Instruction to Bidders
- (C) Specifications
- (C) Bid
- (D) Bid Bond
- (E) Agreement Form
- (F) Performance Bond
- (G) Maintenance Agreement
- (H) Maintenance Bond
- (I) Notice of Award
- (J) Notice to Proceed

6. The OWNER will pay to the CONTRACTOR in the manner and at such times as set forth in the Bid Specifications.

7. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in three (3) counterparts, each of which shall be deemed an original on the date first above written.

ATTEST:

OWNER:  
CITY OF NEOSHO, MISSOURI

\_\_\_\_\_  
Cheyenne Wright, City Clerk

By: \_\_\_\_\_  
Name: Richard Davidson  
Title: Mayor

(SEAL)

ATTEST:

CONTRACTOR:

Springfield Sealing Service Inc.

\_\_\_\_\_

By: \_\_\_\_\_

Mark Clark

\_\_\_\_\_

Name (Please Type)

\_\_\_\_\_  
Title: General Manager  
3809 E. Energy Place  
Springfield, MO 65803



### BID FORM

**Description:** (To be completed by bidding party)

|                                                                           |             |
|---------------------------------------------------------------------------|-------------|
| Bid one (1) Airport Runway (Red outline): 20,800 LF Crack Sealing         | \$26,416.00 |
| Bid two (2) Airport Taxiway (Blue outline): 9,100 LF Crack Sealing        | \$51,415.00 |
| Bid three (3) North Hangar Apron (Green outline): 22,240 LF Crack Sealing | \$23,796.80 |
| Bid four (4) South Hangar Apron (Orange outline): 19,200 LF Crack Sealing | \$24,000.00 |
|                                                                           |             |
|                                                                           |             |
|                                                                           |             |

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

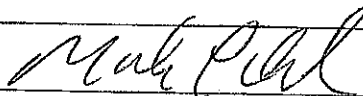
**COMPANY:** Springfield Sealing Service, Inc./dba: Springfield Striping & Sealing

**ADDRESS:** 3809 E. Energy Place, Springfield, MO 65803

**PHONE:** 417-831-5114

**EMAIL:** jon@springfieldstriping.com

**BY:** Mark Clark/General Manager



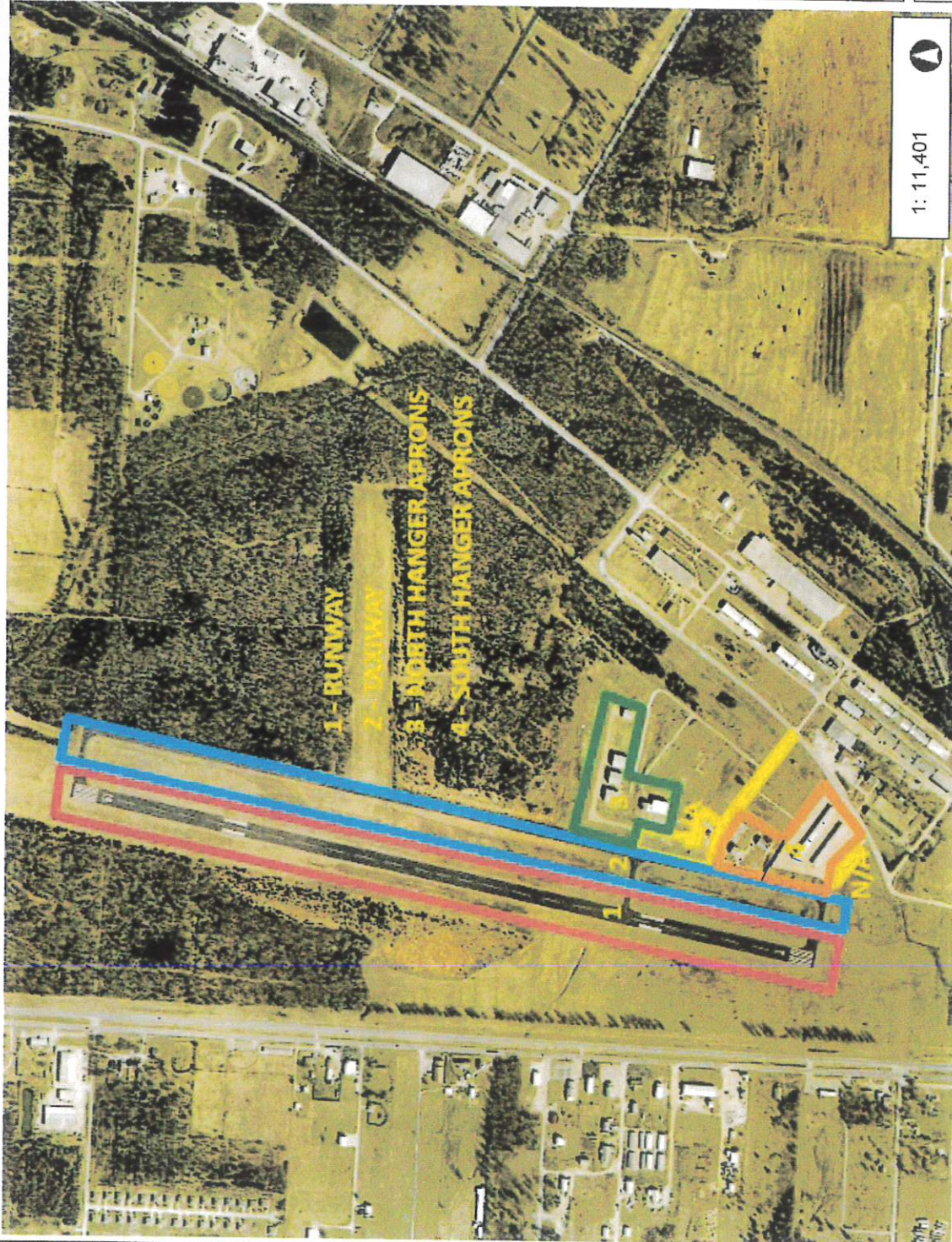
# Neosho, MO



Legend

Notes

PROJECT AREAS (far)



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

1,900.1 950.06 1,900.1 Feet

0

0

950.06

1,900.1 Feet

1: 11,401



0

0

950.06

1,900.1 Feet

0

0

950.06

1,900.1 Feet



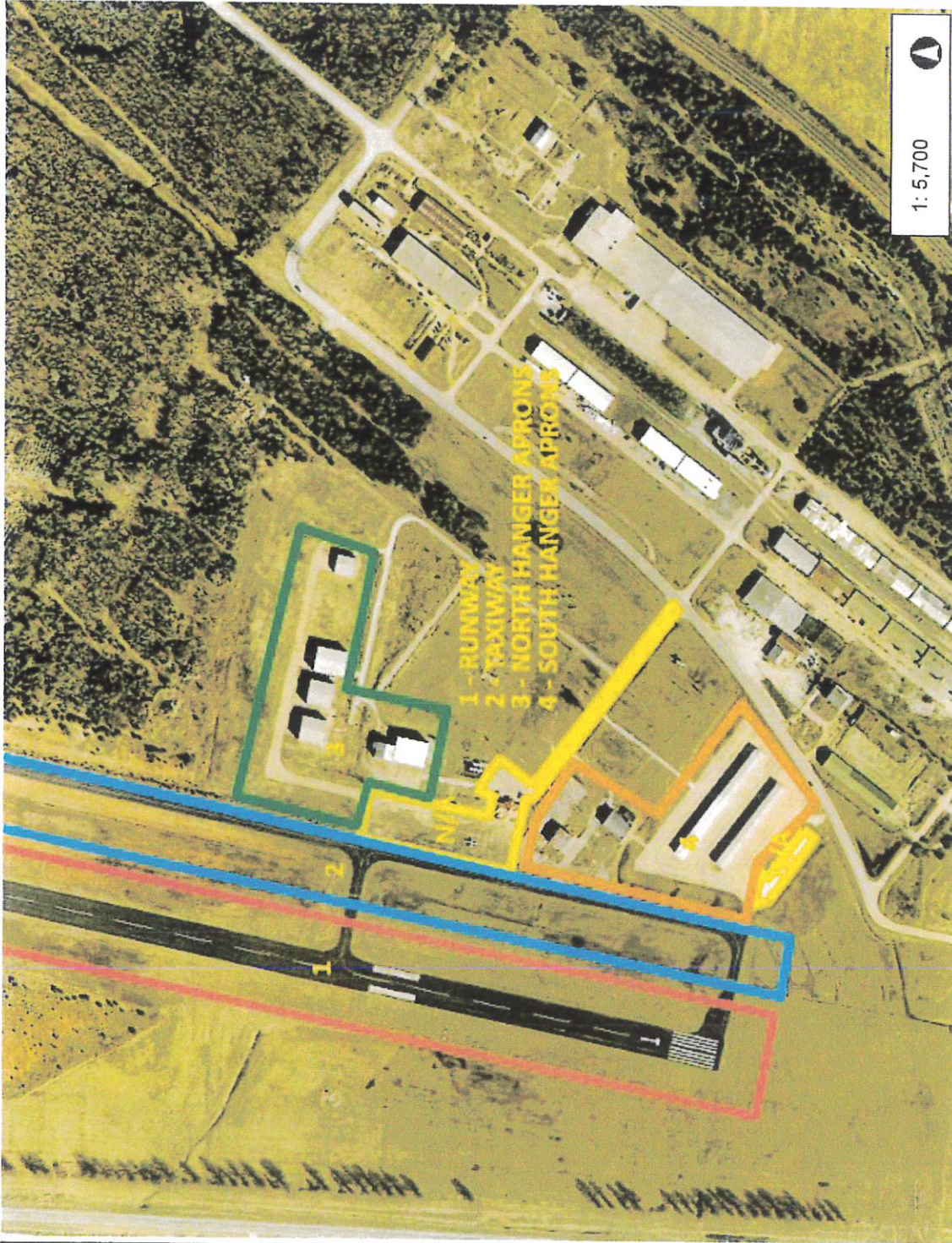
# Neosho, MO



Legend

Notes

PROJECT AREAS



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
THIS MAP IS NOT TO BE USED FOR NAVIGATION



AFFIDAVIT of COMPLIANCE  
Section 285.530.2

State of Missouri ) ss

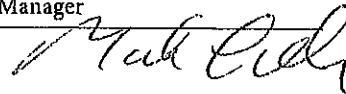
County of Newton )

Now this 14 day of August, 2024 the undersigned, being first duly sworn, deposes and says:

1. I am more than 18 years of age.
2. I make this affidavit from my personal knowledge of the facts stated herein or upon information and facts available to me as a duly authorized owner, partner, corporate or LLC officer or Human Relations Director of Springfield Sealing Service, Inc./  
dba: Springfield Striping & Sealing (name of Corporation, LLC, sole proprietorship or partnership)
3. I am authorized to make this affidavit on behalf of Springfield Sealing Service, Inc./  
dba: Springfield Striping & Sealing (name of business entity, same as above)
4. I state and affirm that Springfield Sealing Service, Inc./  
dba: Springfield Striping & Sealing is enrolled and is (name of business entity, same as above) currently participating in E-Verify, a federal work authorization program or another equivalent electronic verification of work authorization program operated by the United States Department of Homeland Security under the Immigration Reform and Control Act of 1986.
5. Further, Springfield Sealing Service, Inc./  
dba: Springfield Striping & Sealing does not knowingly employ any person  
(name of business entity, same as above) who is an unauthorized alien.
6. Further, Springfield Sealing Service, Inc./  
dba: Springfield Striping & Sealing has performed an electronic  
(name of business entity, same as above) verification check as described above on all workers hired since January 1, 2009 or obtained documents required for completion of a federal I-9 form before it began participating in E-Verify.
7. Attached to this affidavit is a true and accurate copy of this company's Memorandum of Understanding with the United States concerning the use of E-Verify.

I certify under penalty of perjury that the statements above are complete, true and accurate to the best of my knowledge and belief. Mark Clark/General Manager

Authorized Agent, Partner, Owner or Officer



*If business has a Human Relations Director or equivalent that person must sign as an affiant as well.*

I certify under penalty of perjury that the statements above are complete, true and accurate to the best of my knowledge and belief.

---

Human Relations Director

*This form is promulgated pursuant to 15CSR 60-15-.020. Use of this form is not required but the Attorney General has deemed this affidavit sufficient in form to satisfy the requirements of section 285.540, RSMo., Supp. 2008*

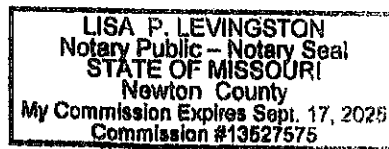
FURTHER THE AFFIANT SAYETH NOT

Mark Clark  
(Signature)

On this 14 day of August in the year 2024, before me, Lisa P. Levingston  
           a Notary Public in and for said State, personally appeared Mark Clark  
          , known to me to be the person who executed the within affidavit, and acknowledged to me that he/s  
he executed the same for the purposes therein stated.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal in the  
county and State aforesaid, the day and year first above written.

Lisa P. Levingston  
Notary Public



My Commission Expires      September 17, 2025





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

03/21/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

|                                                                                                                                    |                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCER<br>OLLIS/AKERS/ARNEY<br>2274 E SUNSHINE ST<br><br>SPRINGFIELD<br>MO 65804-1819                                            | CONTACT NAME: Monique Lynn<br>PHONE (A/C, No, Ext): (417) 881-8333<br>FAX (A/C, No): (417) 823-7444<br>E-MAIL ADDRESS: monique.lynn@ollisaa.com                                               |
| INSURED<br>Springfield Sealing Service, Inc., DBA: Springfield Stripping and Sealing<br>3609 Energy<br><br>Springfield<br>MO 65803 | INSURER(S) AFFORDING COVERAGE<br>INSURER A: Cincinnati Insurance<br>INSURER B: MO Employers Mutual Ins.Co.<br>INSURER C: Evanston Insurance Company<br>INSURER D:<br>INSURER E:<br>INSURER F: |

## COVERAGES

CERTIFICATE NUMBER: CL2431921164

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE                                                                                                                                                                                                                                                                                                               | ADDL INSD | SUBR WVD | POLICY NUMBER   | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS                                                                                                                                                                                                                                          |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|-----------------|-------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A        | <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY<br><input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR<br><br>GEN'L AGGREGATE LIMIT APPLIES PER:<br><input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJ-JECT <input type="checkbox"/> LOC<br>OTHER: | Y         | Y        | EPP0610253      | 04/01/2024              | 04/01/2025              | EACH OCCURRENCE \$ 1,000,000<br>DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000<br>MED EXP (Any one person) \$ 10,000<br>PERSONAL & ADV INJURY \$ 1,000,000<br>GENERAL AGGREGATE \$ 2,000,000<br>PRODUCTS - COMP/OP AGG \$ 2,000,000<br>\$ |
| A        | <input checked="" type="checkbox"/> AUTOMOBILE LIABILITY<br><input checked="" type="checkbox"/> ANY AUTO<br><input type="checkbox"/> OWNED AUTOS ONLY<br><input checked="" type="checkbox"/> HIRED AUTOS ONLY<br><input type="checkbox"/> SCHEDULED AUTOS<br><input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY           | Y         | Y        | EPP0610253      | 04/01/2024              | 04/01/2025              | COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000<br>BODILY INJURY (Per person) \$<br>BODILY INJURY (Per accident) \$<br>PROPERTY DAMAGE (Per accident) \$<br>\$                                                                                 |
| A        | <input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR<br>EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE<br>DED <input checked="" type="checkbox"/> RETENTION \$ -0-                                                                                                                     | Y         | Y        | EPP0610253      | 04/01/2024              | 04/01/2025              | EACH OCCURRENCE \$ 5,000,000<br>AGGREGATE \$ 5,000,000<br>\$                                                                                                                                                                                    |
| B        | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY<br>ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)<br>If yes, describe under DESCRIPTION OF OPERATIONS below                                                                                                                                          | Y/N<br>N  | N/A      | MEG3012852      | 04/01/2024              | 04/01/2025              | <input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER<br>E.L. EACH ACCIDENT \$ 1,000,000<br>E.L. DISEASE - EA EMPLOYEE \$ 1,000,000<br>E.L. DISEASE - POLICY LIMIT \$ 1,000,000                                       |
| C        | Pollution Liability                                                                                                                                                                                                                                                                                                             |           |          | MKLVS3ENV104449 | 04/01/2024              | 04/01/2025              | Shared Aggregate \$2,000,000<br>Each Pollution Limit \$1,000,000<br>Deductible \$10,000                                                                                                                                                         |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

The Certificate Holder and other Entities when required by written contract, relative to General Liability, have Additional Insured status, including Ongoing Operations and Products/Completed Operations on a Primary and Non-Contributory Basis and are Additional Insured's under the Auto Liability. Waiver of Subrogation in favor of Certificate Holder applies to General Liability and Auto Liability. Umbrella Follows Form

## CERTIFICATE HOLDER

## CANCELLATION

|                                                        |                                                                                                                                                                                                     |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| City of Neosho<br>203 E Main<br><br>Neosho<br>MO 64850 | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.<br><br>AUTHORIZED REPRESENTATIVE<br> |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Additional Named Insureds

### Other Named Insureds

JKAA LLC 43-1812405

Additional Named Insured

Manzardo Leasing, LLC 43-1870999

Additional Named Insured

Springfield Sealing Service Inc. 401(k) Profit Shari

Additional Named Insured

Springfield Striping and Sealing

Doing Business As



**Request for Taxpayer  
Identification Number and Certification**

Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

Give form to the  
requester. Do not  
send to the IRS.

**Before you begin.** For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                              |                                                |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Print or type.<br>See Specific Instructions on page 3. | <b>1</b> Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)<br><b>Springfield Sealing Service, Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>4</b> Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):<br><br>Exempt payee code (if any) <u>N/A</u><br><br>Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) <u>N/A</u><br><br>(Applies to accounts maintained outside the United States.) |                                                |
|                                                        | <b>2</b> Business name/disregarded entity name, if different from above.<br><b>Springfield Striping &amp; Sealing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                              |                                                |
|                                                        | <b>3a</b> Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only <b>one</b> of the following seven boxes.<br><br><input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C corporation <input checked="" type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate<br><br><input type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) _____<br><b>Note:</b> Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.<br><br><input type="checkbox"/> Other (see instructions) _____ |                                                                                                                                                                                                                                                                                                                              |                                                |
|                                                        | <b>3b</b> If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                              |                                                |
|                                                        | <b>5</b> Address (number, street, and apt. or suite no.). See instructions.<br><b>3809 E. Energy Place</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                              | <b>Requester's name and address (optional)</b> |
|                                                        | <b>6</b> City, state, and ZIP code<br><b>Springfield, MO 65803</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                              |                                                |
|                                                        | <b>7</b> List account number(s) here (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                              |                                                |

**Part I Taxpayer Identification Number (TIN)**

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

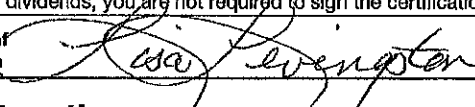
|                                       |   |  |   |   |   |   |   |   |
|---------------------------------------|---|--|---|---|---|---|---|---|
| <b>Social security number</b>         |   |  |   |   |   |   |   |   |
|                                       |   |  | - |   |   |   |   |   |
| <b>or</b>                             |   |  |   |   |   |   |   |   |
| <b>Employer identification number</b> |   |  |   |   |   |   |   |   |
| 4                                     | 3 |  | - | 1 | 3 | 2 | 5 | 5 |
|                                       |   |  |   |   |   |   | 4 | 5 |

**Part II Certification**

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

|                  |                                                                                                                        |                               |
|------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Sign Here</b> | <b>Signature of U.S. person</b><br> | <b>Date</b><br>August 8, 2024 |
|------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------|

**General Instructions**

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

**What's New**

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

**Purpose of Form**

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they



Company ID Number: 344837

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 888-464-4218.

Employer **SPRINGFIELD SEALING SERVICE, INC.**

**SARAH TITTSWORTH**

Name (Please Type or Print)

Title

**Electronically Signed**

**07/20/2010**

Signature

Date

Department of Homeland Security – Verification Division

**USCIS Verification Division**

Name (Please Type or Print)

Title

**Electronically Signed**

**07/20/2010**

Signature

Date

Information Required for the E-Verify Program

Information relating to your Company:

Company Name: **SPRINGFIELD SEALING SERVICE, INC.**

Company Facility Address: **3809 E ENERGY PLACE**

**SPRINGFIELD, MO 65803**

Company Alternate  
Address:

County or Parish: **GREENE**

Employer Identification  
Number: **431325545**



Wednesday, August 14, 2024

Thank you for allowing us to provide the attached proposal.

Springfield Striping & Sealing has been proudly serving the Ozarks since 1971 by providing the most dependable service, using the highest quality products available and employing the highest quality work standards. We have built our reputation on one simple philosophy: To provide you with the best possible job.

Please respond to this email to confirm it was received and the attachments could be opened and viewed. If you have any questions or comments regarding our proposal, please do not hesitate to contact us.

Once again, thank you for the opportunity to earn your business! We look forward to being of service.

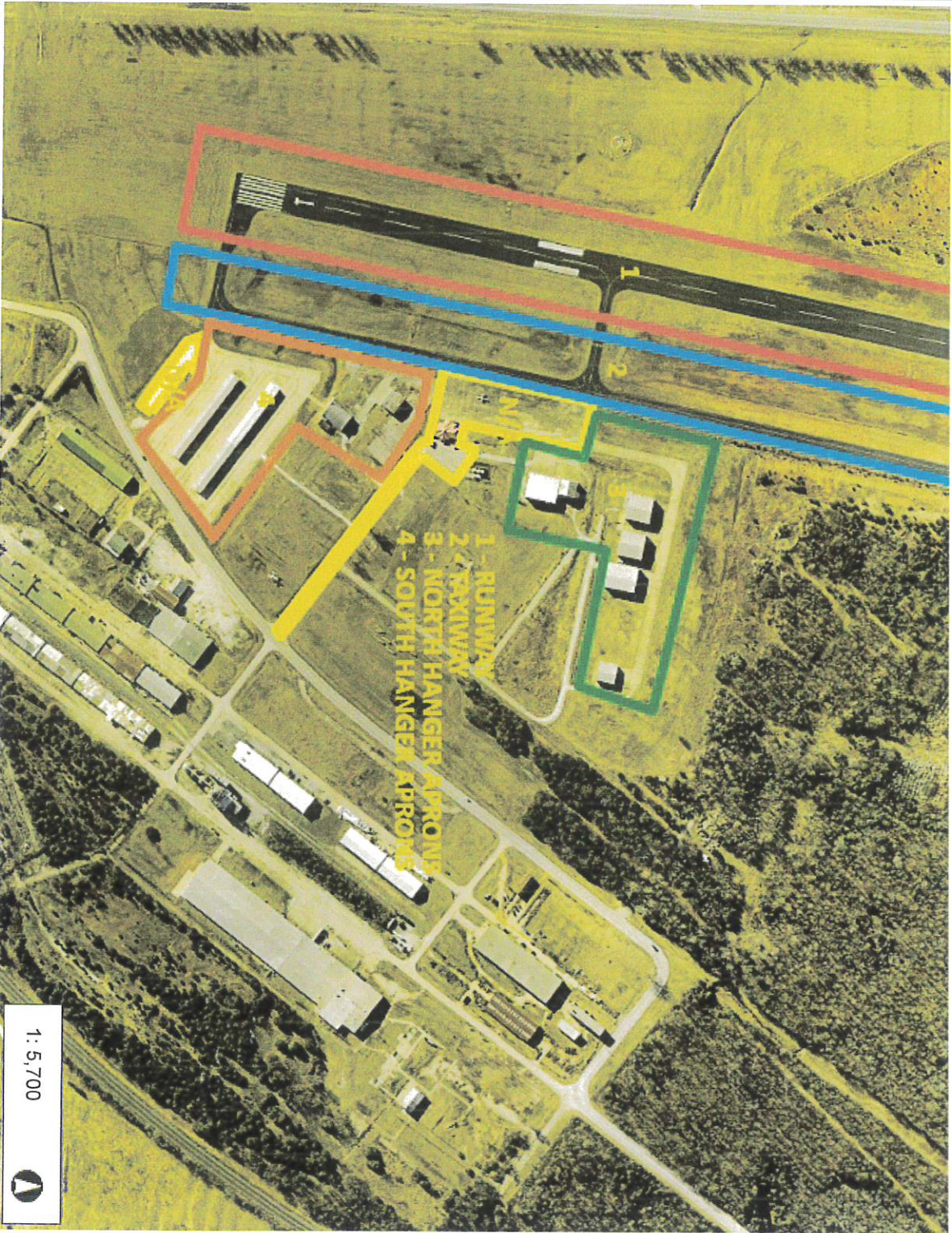
Thank you,

*Jon Schlup*





# Neosho, MO



1: 5,700



## Legend

## Notes

PROJECT AREAS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

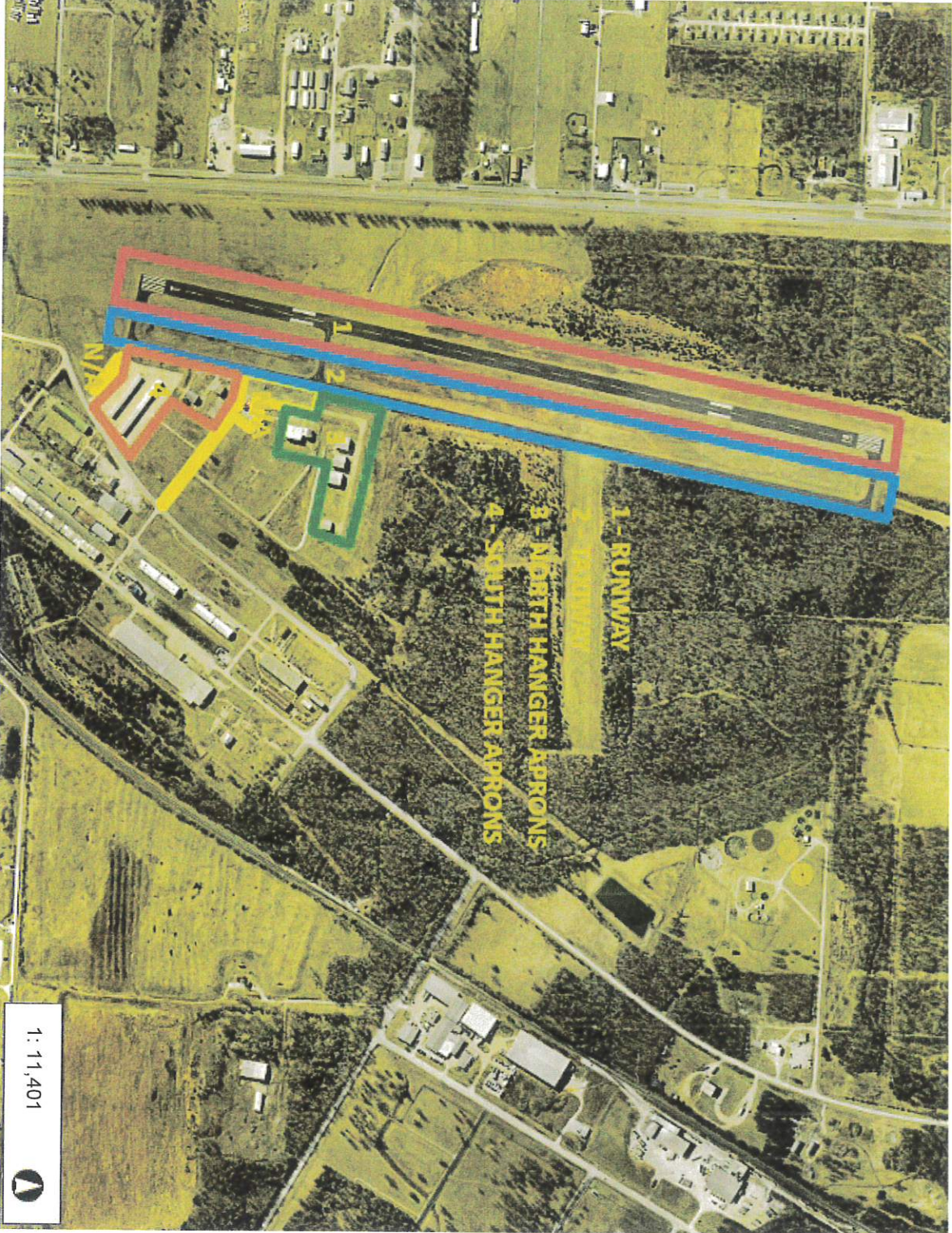
THIS MAP IS NOT TO BE USED FOR NAVIGATION



# Neosho, MO



Legend



1: 11,401



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes

PROJECT AREAS (far)





## Contract

Date: 8/14/2024  
Contract #: 24-5970

### Submitted To:

City of Neosho  
203 E. Main Street  
Neosho, MO 64850

**Contact:** Richard Leavens  
**Phone:** 417.451.8050  
**Fax:** 417.451.8065

### Job Location:

Hugh Robinson Airport  
1400 Terry Johnson Drive  
Neosho, MO 64850  
Airport Runway

### CRACK SEALING

#### PREPARATION

1. Spray all vegetation in cracks with Roundup Quick Pro Dry Instant Kill where applicable prior to job date.
2. Clean all cracks with compressed air, wire wheel routing and hand work to ensure all loose debris is removed.
3. Inject all cracks 3/16" with Nuvo CS Type C crack sealant not associated with alligatored areas.

#### PROTECTION

1. All barricades will be supplied and set up prior to commencement of work and removed from job site after completion of project.
2. Owner will be responsible for having area cleared.

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cost        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Crack Sealing (20,800 LF)<br>(Banner overlap crack 2" - 3")<br>NOTE: Does not include crackfilling of alligator areas. Bid to be accepted within 30 days of receipt. In the case that the owner requests the work to be completed later, or this is new construction, pricing would be adjusted based on AC index, raw materials, supplies and labor rates at the time of completion. If any adjustments are needed the customer will be informed prior to the start of work. | 26,416.00   |
| We propose to furnish labor & materials according to specifications for:                                                                                                                                                                                                                                                                                                                                                                                                      | \$26,416.00 |

Owner is responsible for having lot cleared of vehicles. If towing services are required to perform work, towing charges will be at owner's expense. Bid does not include survey/staking, undercutting soft areas, breaking, blasting, private utility locates, relocation or damage to private utilities, electric conduit or irrigation. Past due accounts are charged 1.5% per month. TERMS: Due Upon Completion. Please see Notice To Owner on reverse side.

Springfield Striping & Sealing, Inc.

Authorized Signature:

Jon Schlup

JPS

**Date:** 08.14.2024

### Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made according to the terms listed above.

### Customer Signature:

**Date:**

The parties agree that in the event of litigation arising from the performance or breach of this agreement, that the prevailing party shall recover from the non-prevailing party its reasonable attorney's fees, court costs, and litigation expenses.



## Contract

Date: 8/14/2024  
Contract #: 24-5971

### Submitted To:

City of Neosho  
203 E. Main Street  
Neosho, MO 64850

**Contact:** Richard Leavens  
**Phone:** 417.451.8050  
**Fax:** 417.451.8065

### Job Location:

Hugh Robinson Airport  
1400 Terry Johnson Drive  
Neosho, MO 64850  
Taxiway

### CRACK SEALING

#### PREPARATION

1. Spray all vegetation in cracks with Roundup Quick Pro Dry Instant Kill where applicable prior to job date.
2. Clean all cracks with compressed air, wire wheel routing and hand work to ensure all loose debris is removed.
3. Inject all cracks 3/16" with Nuvo CS Type C crack sealant not associated with alligatored areas.

#### PROTECTION

1. All barricades will be supplied and set up prior to commencement of work and removed from job site after completion of project.
2. Owner will be responsible for having area cleared.

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cost        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Crack Sealing (9,100 LF)<br>(Asphalt areas will be handbed with 2" - 3")<br>NOTE: Does not include crackfilling of alligator areas. Bid to be accepted within 30 days of receipt. In the case that the owner requests the work to be completed later, or this is new construction, pricing would be adjusted based on AC index, raw materials, supplies and labor rates at the time of completion. If any adjustments are needed the customer will be informed prior to the start of work. | 51,415.00   |
| We propose to furnish labor & materials according to specifications for:                                                                                                                                                                                                                                                                                                                                                                                                                   | \$51,415.00 |

Owner is responsible for having lot cleared of vehicles. If towing services are required to perform work, towing charges will be at owner's expense. Bid does not include survey/staking, undercutting soft areas, breaking, blasting, private utility locates, relocation or damage to private utilities, electric conduit or irrigation. Past due accounts are charged 1.5% per month. TERMS: Due Upon Completion. Please see

Notice To Owner on reverse side

Springfield Striping & Sealing, Inc.

Authorized Signature:

Jon Schlup

JPS

Date: 08.14.2024

#### Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made according to the terms listed above.

#### Customer Signature:

Date:

The parties agree that in the event of litigation arising from the performance or breach of this agreement, that the prevailing party shall recover from the non-prevailing party its reasonable attorney's fees, court costs, and litigation expenses.



## Contract

Date: 8/14/2024  
Contract #: 24-5972

### Submitted To:

City of Neosho  
203 E. Main Street  
Neosho, MO 64850

**Contact:** Richard Leavens  
**Phone:** 417.451.8050  
**Fax:** 417.451.8065

### Job Location:

Hugh Robinson Airport  
1400 Terry Johnson Drive  
Neosho, MO 64850  
North Hangar Apron

### CRACK SEALING

#### PREPARATION

1. Spray all vegetation in cracks with Roundup Quick Pro Dry Instant Kill where applicable prior to job date.
2. Clean all cracks with compressed air, wire wheel routing and hand work to ensure all loose debris is removed.
3. Inject all cracks 3/16" with Nuvo CS Type C crack sealant not associated with alligatored areas.

#### PROTECTION

1. All barricades will be supplied and set up prior to commencement of work and removed from job site after completion of project.
2. Owner will be responsible for having area cleared.

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cost        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Crack Sealing (22,240 LF)<br>(Applied with 1/4" tip to joints)<br>NOTE: Does not include crackfilling of alligator areas. Bid to be accepted within 30 days of receipt. In the case that the owner requests the work to be completed later, or this is new construction, pricing would be adjusted based on AC index, raw materials, supplies and labor rates at the time of completion. If any adjustments are needed the customer will be informed prior to the start of work. | 23,796.80   |
| We propose to furnish labor & materials according to specifications for:                                                                                                                                                                                                                                                                                                                                                                                                         | \$23,796.80 |

Owner is responsible for having lot cleared of vehicles. If towing services are required to perform work, towing charges will be at owner's expense. Bid does not include survey/staking, undercutting soft areas, breaking, blasting, private utility locates, relocation or damage to private utilities, electric conduit or irrigation. Past due accounts are charged 1.5% per month. TERMS: Due Upon Completion. Please see

Notice To Owner on reverse side

Springfield Striping & Sealing, Inc.

Authorized Signature: \_\_\_\_\_

**Jon Schlup**

JPS

**Date:** 08.14.2024

#### Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made according to the terms listed above.

#### Customer Signature:

**Date:** \_\_\_\_\_

The parties agree that in the event of litigation arising from the performance or breach of this agreement, that the prevailing party shall recover from the non-prevailing party its reasonable attorney's fees, court costs, and litigation expenses.





## Contract

Date: 8/14/2024  
Contract #: 24-5973

### Submitted To:

City of Neosho  
203 E. Main Street  
Neosho, MO 64850

**Contact:** Richard Leavens  
**Phone:** 417.451.8050  
**Fax:** 417.451.8065

### Job Location:

Hugh Robinson Airport  
1400 Terry Johnson Drive  
Neosho, MO 64850  
South Hangar Apron

### CRACK SEALING

#### PREPARATION

1. Spray all vegetation in cracks with Roundup Quick Pro Dry Instant Kill where applicable prior to job date.
2. Clean all cracks with compressed air, wire wheel routing and hand work to ensure all loose debris is removed.
3. Inject all cracks 3/16" with Nuvo CS Type C crack sealant not associated with alligatored areas.

#### PROTECTION

1. All barricades will be supplied and set up prior to commencement of work and removed from job site after completion of project.
2. Owner will be responsible for having area cleared.

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cost        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Crack Sealing (19,200 LF)<br>(Concrete areas will be filled with 1/4" tin and asphalt areas will be banded with 2" - 3" overlap wide)<br>NOTE: Does not include crackfilling of alligator areas. Bid to be accepted within 30 days of receipt. In the case that the owner requests the work to be completed later, or this is new construction, pricing would be adjusted based on AC index, raw materials, supplies and labor rates at the time of completion. If any adjustments are needed the customer will be informed prior to the start of work. | 24,000.00   |
| We propose to furnish labor & materials according to specifications for:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$24,000.00 |

Owner is responsible for having lot cleared of vehicles. If towing services are required to perform work, towing charges will be at owner's expense. Bid does not include survey/staking, undercutting soft areas, breaking, blasting, private utility locates, relocation or damage to private utilities, electric conduit or irrigation. Past due accounts are charged 1.5% per month. TERMS: Due Upon Completion. Please see Notice To Owner on reverse side.

Springfield Striping & Sealing, Inc.

Authorized Signature: \_\_\_\_\_

**Jon Schlup**

JPS

**Date:** 08.14.2024

#### Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made according to the terms listed above.

#### Customer Signature:

**Date:** \_\_\_\_\_

The parties agree that in the event of litigation arising from the performance or breach of this agreement, that the prevailing party shall recover from the non-prevailing party its reasonable attorney's fees, court costs, and litigation expenses.

## **NOTICE TO OWNER**

**FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY, WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429, RSMO. TO AVOID THIS RESULT YOU MAY ASK THIS CONTRACTOR FOR "LIEN WAIVERS" FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOUR PAYING FOR LABOR AND MATERIAL TWICE.**



Three references:

Neosho R-V School District  
Tara Twitchell  
418 Fairground Road  
Neosho, MO 64850  
417-451-8600

Schreiber Foods, Inc.  
Shane Flewelling  
2467 Hazel Avenue  
Carthage, MO 64836  
417-466-8715

Jasper Products, LLC  
Rusty Snyder  
3877 E. 27<sup>th</sup> Street  
Joplin, MO 64804  
417-208-1347

Personnel:

Jon Schlup  
16 years experience

Sean Musick  
22 years experience

Randy Sparks  
36 years experience

Dustin Ince  
11 years experience

Larry Ries  
6 years experience

Everett Morelock  
7 years experience

THIS AGREEMENT, made this \_\_\_\_ day of September, 2024, by and between CITY OF NEOSHO, MISSOURI hereinafter called "OWNER" and SPRINGFIELD SEALING SERVICE, INC. doing business as SPRINGFIELD STRIPING & SEALING, hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The CONTRACTOR will commence and complete the crack sealing of Airport Runway 20,800 LF, Airport Taxiway 9,100 LF and North Hangar Apron 22,240 LF as described in the Bid Specifications for the Project, hereinafter called "PROJECT".
2. The CONTRACTOR will furnish all of the materials, supplies, tools, equipment, labor and other services necessary for the construction and completion of the PROJECT described herein.
3. The CONTRACTOR will commence the work required by the CONTRACT DOCUMENTS on the date as stipulated in the NOTICE TO PROCEED and will complete same within 30 consecutive calendar days unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.
4. The CONTRACTOR agrees to perform all of the WORK described in the CONTRACT DOCUMENTS and comply with the terms therein for the sum of ONE HUNDRED ONE THOUSAND SIX HUNDRED TWENTY-SEVEN & 80/100 DOLLARS (\$101,627.80), or as shown in the BID Schedule, including Alternate Bid Items.
5. The term "CONTRACT DOCUMENTS" means and includes the following:
  - (A) Invitation\Advertisement to Bid
  - (B) Instruction to Bidders
  - (C) Specifications
  - (C) Bid
  - (D) Bid Bond
  - (E) Agreement Form
  - (F) Performance Bond
  - (G) Maintenance Agreement
  - (H) Maintenance Bond
  - (I) Notice of Award
  - (J) Notice to Proceed
6. The OWNER will pay to the CONTRACTOR in the manner and at such times as set forth in the Bid Specifications.
7. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in three (3) counterparts, each of which shall be deemed an original on the date first above written.

ATTEST:

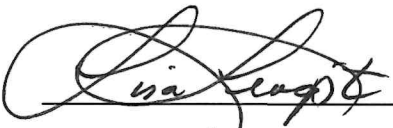
OWNER:  
CITY OF NEOSHO, MISSOURI

\_\_\_\_\_  
Cheyenne Wright, City Clerk

By: \_\_\_\_\_  
Name: Richard Davidson  
Title: Mayor

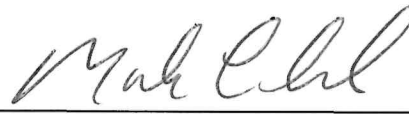
(SEAL)

ATTEST:

  
\_\_\_\_\_  
Lisa Livingston  
Name (Please Type)

CONTRACTOR:

Springfield Sealing Service Inc. \_\_\_\_\_

By:   
\_\_\_\_\_  
Mark Clark

  
Title: General Manager  
3809 E. Energy Place  
Springfield, MO 65803

**Resolution Bill No. 2024-51**

**A RESOLUTION of the City of Neosho, Missouri, approving an agreement with Marion Company, LLC, a Missouri Limited Liability Company, for the purpose of providing construction services for the remodel of the Golf Course Club House for the not to exceed price of Forty-Seven Thousand Two Hundred Five & 00/100 Dollars (\$47,205.00) and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.**

**WHEREAS**, the City of Neosho sought bids for the construction of a parking lot along Spring Street of the City of Neosho, Missouri; and

**WHEREAS**, Marion Company, LLC, was awarded the bid on September 3, 2024.

**NOW, THEREFORE BE IT RESOLVED** by the City of Neosho, Missouri as follows:

That the Agreement for Construction Services by and between the City of Neosho, Missouri, and Marion Company, LLC, a Missouri Limited Liability Company, for the purpose of providing construction services for the remodel of the Golf Course Club House for the not to exceed the price of Forty-Seven Thousand Two Hundred Five & 00/100 Dollars (\$47,205.00), a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit "A," be and the same is hereby approved.

**BE IT FURTHER RESOLVED**, the Mayor is hereby authorized to execute all necessary documents to effectuate the same.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this 3rd day of September, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney



ATTEST:



Carter Marion, EVP  
Name (Please Type)

CONTRACTOR:

Marion Company, LLC.

By   
Tyler Marion

President

Title

12451 Highway 59

Neosho, Missouri 64850

Address

(SEAL)



**BID FORM**

**Description:** (To be completed by bidding party)

Base Bid: Golf Course Club House Remodel --- \$47,205.00 (Includes Bonds)

Voluntary Alternate: New Exterior Aluminum Storefront Entry at Sales Counter --- \$4,765.00

**Price(s) for unit(s) meeting enclosed specifications:**

F.O.B. Neosho, MO

Projected Shipping Date: TBD

After delivery - payment made on third Tuesday of month delivered

I certify that this bid on stated piece(s) of equipment meets or exceeds the bid specifications (unless otherwise noted).

**COMPANY:** Marion Company, LLC

**ADDRESS:** 12451 Highway 59 | Neosho, Missouri 64850

**PHONE:** (417) 451 - 5743

**EMAIL:** tyler.marion@marionllc.net

**BY:** 

## **BID SPECIFICATIONS:**

### **Bid Item:**

Interior modifications for a new kitchen area and dining area at the Neosho Golf Course Clubhouse. Includes removal of existing walls, construction of new walls for the revised layout, electrical modifications, plumbing modifications, and relocation of existing equipment.

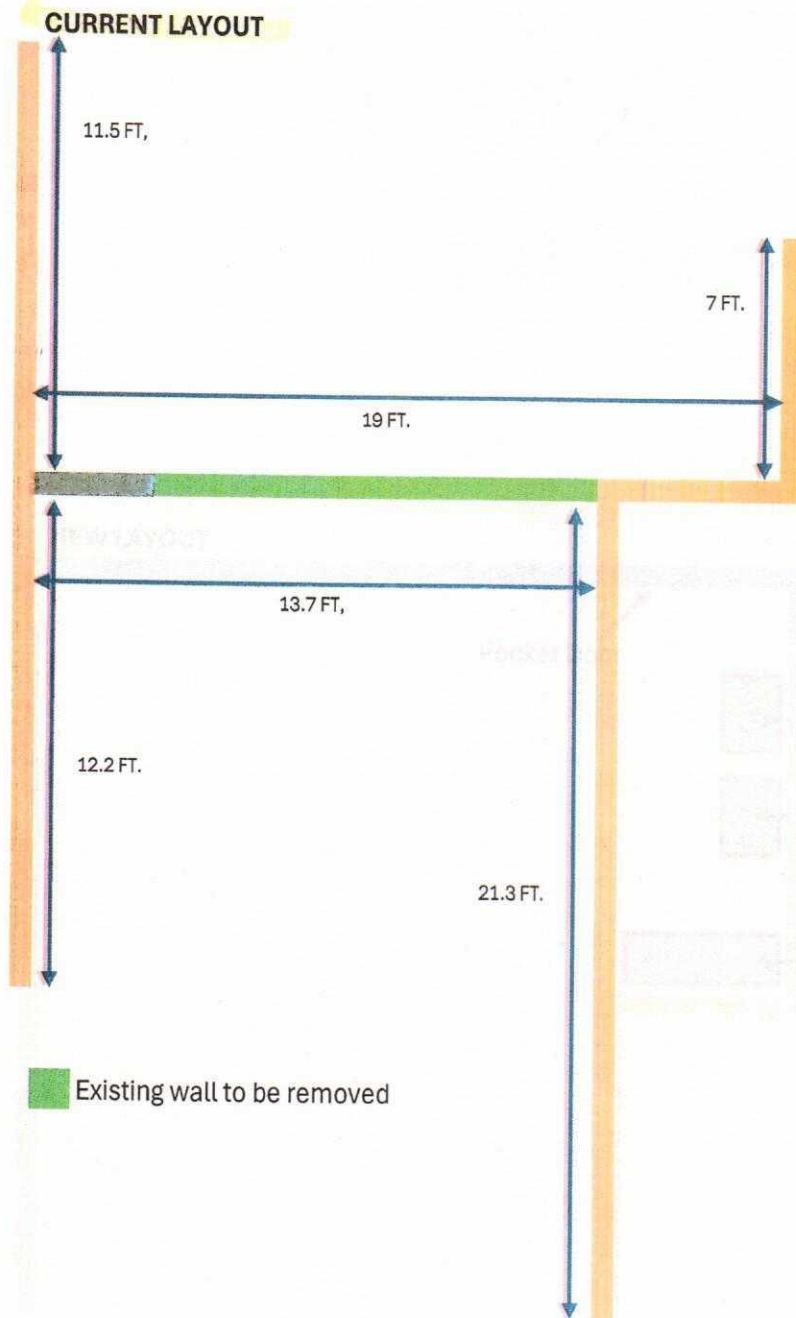
### **Notes:**

1. Prospective bidders are responsible for verifying exact layout, quantities, and footages.
2. Bidders shall visit the site, meet with the owner and confirm measurements prior to bidding.
3. Bidders shall include all necessary items for complete scope of work.

Photos are attached

### **Note:**

This bid should include the start date for this project.



---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Resolution Bill No. 2024-53: National Opioid Settlement

---

**ORIGINATING DEPARTMENT:** City Manager

**ATTACHMENT:**

1. Res. Bill No. 2024-53 Approval of Participating in National Opioid Settlement
  2. Kroger National Opioid Settlement
- 

**PURPOSE:**

To approve a resolution for the national opioid settlement agreement between Kroger Company and Settling States.

**BACKGROUND:**

The City of Neosho, Missouri, approving of participation in a national opioid settlement a/k/a Kroger Co. Settlement and authorizing the City Manager and/or Mayor to execute documentation for such participation for the same by and on behalf of the City of Neosho.

**RECOMMENDATION:**

Approve the resolution as submitted and authorize the Mayor to execute it.

**Resolution Bill No. 2024-53**

**A RESOLUTION of the City of Neosho, Missouri, approving of participation in a national opioid settlement a/k/a Kroger Co. Settlement and authorizing the City Manager and/or Mayor to execute documentation for such participation for the same by and on behalf of the City of Neosho.**

**WHEREAS**, a national opioid settlement agreement was made between Kroger Company and Settling States, including the State of Missouri as a participating State; and

**WHEREAS**, the City of Neosho is a political subdivision within a participating State and is therefore eligible to elect to participate in the Settlement.

**NOW, THEREFORE BE IT RESOLVED** by the City of Neosho, Missouri, that the City Council approves and authorizes participation in the Kroger Co. Settlement.

**BE IT FURTHER RESOLVED**, the Mayor and/or City Manager is hereby authorized to execute all necessary documents to effectuate said participation.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this 3rd day of September, 2024, by a vote of \_\_\_\_\_.

**CITY OF NEOSHO, CITY COUNCIL**

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney

New National Opioids Settlement: Kroger  
Opioids Implementation Administrator  
[opioidsparticipation@rubris.com](mailto:opioidsparticipation@rubris.com)

Neosho city, MO  
Reference Number: CL-793849

***TO LOCAL POLITICAL SUBDIVISIONS:***

**THIS PACKAGE CONTAINS DOCUMENTATION TO PARTICIPATE IN THE NEW NATIONAL OPIOIDS SETTLEMENT. YOU MUST TAKE ACTION IN ORDER TO PARTICIPATE.**

***Deadline: September 11, 2024***

A new proposed national opioids settlement ("*New National Opioids Settlement*") has been reached with Kroger ("*Settling Defendant*"). This *Participation Package* is a follow-up communication to the *Notice of National Opioids Settlement* recently received electronically by your subdivision.

You are receiving this *Participation Package* because Missouri is participating in the Kroger settlement.

If a state does not participate in a particular Settlement, the subdivisions in that state are not eligible to participate in that Settlement.

This electronic envelope contains:

- The *Participation Form* for the Kroger settlement, including a release of any claims.

**The *Participation Form* must be executed, without alteration, and submitted on or before September 11, 2024, in order for your subdivision to be considered for initial participation calculations and payment eligibility.**

Based upon subdivision participation forms received on or before September 11, 2024, the subdivision participation rate will be used to determine whether participation is sufficient for the settlement to move forward and whether a state earns its maximum potential payment under the settlement. If the settlement moves forward, your release will become effective. If a settlement does not move forward, that release will not become effective.

Any subdivision that does not participate cannot directly share in the settlement funds, even if the subdivision's state is settling and other participating subdivisions are sharing in settlement funds. Any subdivision that does not participate may also reduce the amount of money for programs to remediate the opioid crisis in its state. Please note, a subdivision will not necessarily directly receive settlement funds by participating; decisions on how settlement funds will be allocated within a state are subject to intrastate agreements or state statutes.

You are encouraged to discuss the terms and benefits of the *New National Opioids Settlement* with your counsel, your Attorney General's Office, and other contacts within your state. Many states are implementing and allocating funds for this new settlement the same as they did for the prior opioids settlements with McKesson, Cardinal, Cencora (formerly AmerisourceBergen), J&J/Janssen, Teva, Allergan, CVS, Walgreens, and Walmart but states may choose to treat this settlement differently.

Information and documents regarding the *New National Opioids Settlement* and how it is being implemented in your state and how funds will be allocated within your state can be found on the national settlement website at <https://nationalopioidsettlement.com/>. This website will be supplemented as additional documents are created.

### **How to return signed forms:**

There are three methods for returning the executed *Participation Form* and any supporting documentation to the Implementation Administrator:

- (1) *Electronic Signature via DocuSign*: Executing the *Participation Form* electronically through DocuSign will return the signed form to the Implementation Administrator and associate your form with your subdivision's records. Electronic signature is the most efficient method for returning the *Participation Form*, allowing for more timely participation and the potential to meet higher settlement payment thresholds, and is therefore strongly encouraged.
- (2) *Manual Signature returned via DocuSign*: DocuSign allows forms to be downloaded, signed manually, then uploaded to DocuSign and returned automatically to the Implementation Administrator. Please be sure to complete all fields. As with electronic signature, returning a manually signed *Participation Form* via DocuSign will associate your signed forms with your subdivision's records.
- (3) *Manual Signature returned via electronic mail*: If your subdivision is unable to return an executed *Participation Form* using DocuSign, the signed *Participation Form* may be returned via electronic mail to [opioidsparticipation@rubris.com](mailto:opioidsparticipation@rubris.com). Please include the name, state, and reference ID of your subdivision in the body of the email and use the subject line Settlement Participation Form - [Subdivision Name, Subdivision State] - [Reference ID].

Detailed instructions on how to sign and return the *Participation Form*, including changing the authorized signer, can be found at <https://nationalopioidsettlement.com/>. You may also contact [opioidsparticipation@rubris.com](mailto:opioidsparticipation@rubris.com).

**The sign-on period for subdivisions ends on September 11, 2024.**

If you have any questions about executing the *Participation Form*, please contact your counsel, the Implementation Administrator at [opioidsparticipation@rubris.com](mailto:opioidsparticipation@rubris.com), or the Missouri Attorney General's Office at [Rebecca.Pinto@ago.mo.gov](mailto:Rebecca.Pinto@ago.mo.gov) (or 314-340-7945).

Thank you,

New National Opioids Settlement Implementation Administrator

*The Implementation Administrator is retained to provide the settlement notice required by the New National Opioids Settlement and to manage the collection of the Participation Form.*



### **Subdivision Participation and Release Form**

|                                  |           |
|----------------------------------|-----------|
| Governmental Entity: Neosho city | State: MO |
| Authorized Signatory:            |           |
| Address 1:                       |           |
| Address 2:                       |           |
| City, State, Zip:                |           |
| Phone:                           |           |
| Email:                           |           |

The governmental entity identified above (“*Governmental Entity*”), in order to obtain and in consideration for the benefits provided to the Governmental Entity pursuant to the Settlement Agreement dated March 22, 2024 (“*Kroger Settlement*”), and acting through the undersigned authorized official, hereby elects to participate in the Kroger Settlement, release all Released Claims against all Released Entities, and agrees as follows.

1. The Governmental Entity is aware of and has reviewed the Kroger Settlement, understands that all terms in this Participation and Release Form have the meanings defined therein, and agrees that by executing this Participation and Release Form, the Governmental Entity elects to participate in the Kroger Settlement and become a Participating Subdivision as provided therein.
2. The Governmental Entity shall promptly, and in any event no later than 14 days after the Reference Date and prior to the filing of the Consent Judgment, dismiss with prejudice any Released Claims that it has filed. With respect to any Released Claims pending in *In re National Prescription Opiate Litigation*, MDL No. 2804, the Governmental Entity authorizes the Plaintiffs’ Executive Committee to execute and file on behalf of the Governmental Entity a Stipulation of Dismissal with Prejudice substantially in the form found at <https://nationalopioidsettlement.com/>.
3. The Governmental Entity agrees to the terms of the Kroger Settlement pertaining to Participating Subdivisions as defined therein.
4. By agreeing to the terms of the Kroger Settlement and becoming a Releasor, the Governmental Entity is entitled to the benefits provided therein, including, if applicable, monetary payments beginning after the Effective Date.
5. The Governmental Entity agrees to use any monies it receives through the Kroger Settlement solely for the purposes provided therein.
6. The Governmental Entity submits to the jurisdiction of the court in the Governmental Entity’s state where the Consent Judgment is filed for purposes limited to that court’s role as provided in, and for resolving disputes to the extent provided in, the Kroger Settlement. The Governmental Entity likewise agrees to arbitrate before the National



Arbitration Panel as provided in, and for resolving disputes to the extent otherwise provided in, the Kroger Settlement.

7. The Governmental Entity has the right to enforce the Kroger Settlement as provided therein.
8. The Governmental Entity, as a Participating Subdivision, hereby becomes a Releasor for all purposes in the Kroger Settlement, including without limitation all provisions of Section XI (Release), and along with all departments, agencies, divisions, boards, commissions, districts, instrumentalities of any kind and attorneys, and any person in their official capacity elected or appointed to serve any of the foregoing and any agency, person, or other entity claiming by or through any of the foregoing, and any other entity identified in the definition of Releasor, provides for a release to the fullest extent of its authority. As a Releasor, the Governmental Entity hereby absolutely, unconditionally, and irrevocably covenants not to bring, file, or claim, or to cause, assist or permit to be brought, filed, or claimed, or to otherwise seek to establish liability for any Released Claims against any Released Entity in any forum whatsoever. The releases provided for in the Kroger Settlement are intended by the Parties to be broad and shall be interpreted so as to give the Released Entities the broadest possible bar against any liability relating in any way to Released Claims and extend to the full extent of the power of the Governmental Entity to release claims. The Kroger Settlement shall be a complete bar to any Released Claim.
9. The Governmental Entity hereby takes on all rights and obligations of a Participating Subdivision as set forth in the Kroger Settlement.
10. In connection with the releases provided for in the Kroger Settlement, each Governmental Entity expressly waives, releases, and forever discharges any and all provisions, rights, and benefits conferred by any law of any state or territory of the United States or other jurisdiction, or principle of common law, which is similar, comparable, or equivalent to § 1542 of the California Civil Code, which reads:

**General Release; extent.** A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release that, if known by him or her would have materially affected his or her settlement with the debtor or released party.

A Releasor may hereafter discover facts other than or different from those which it knows, believes, or assumes to be true with respect to the Released Claims, but each Governmental Entity hereby expressly waives and fully, finally, and forever settles, releases and discharges, upon the Effective Date, any and all Released Claims that may exist as of such date but which Releasors do not know or suspect to exist, whether through ignorance, oversight, error, negligence or through no fault whatsoever, and which, if known, would materially affect the Governmental Entities' decision to participate in the Kroger Settlement.



11. Nothing herein is intended to modify in any way the terms of the Kroger Settlement, to which Governmental Entity hereby agrees. To the extent this Participation and Release Form is interpreted differently from the Kroger Settlement in any respect, the Kroger Settlement controls.

I have all necessary power and authorization to execute this Participation and Release Form on behalf of the Governmental Entity.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Resolution Bill No. 2024-54: Missouri Department of Transportation Aviation Grant

---

**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. Res. Bill No. 2024-54 T-Hangar Block Grant
  2. MoDOT Funding Application - EOS Hangar - FOR SIGNATURE
- 

**PURPOSE:**

The purpose of this item is to gain the council's acceptance of an ordinance authorizing staff to apply for a grant to build five new T-hangers at Neosho's Hugh Robinson Airport.

**BACKGROUND:**

This grant would fund the second part of a two-part project to build five new T-hangers and the accompanying aprons and taxiways. The city has completed the first part of this project which was the design and construction of the aprons and taxiways to service these hangers. This part of the project would design and construct the five T-hangers. This ordinance authorizes the signatures on the ordinance, application and supporting documents. The total cost of this second part of the project is estimated at \$690,000 including the city match amount of \$69,000.

**RECOMMENDATION:**

Staff recommends the City Council authorize this grant ordinance and application.

**Resolution Bill No. 2024-54**

**A RESOLUTION of the City of Neosho, Missouri, authorizing an application for a federal block grant to construct T-hangars at the Neosho Hugh Robinson Airport.**

**WHEREAS**, the Airport Management of the Neosho Hugh Robinson Airport has proposed that the City of Neosho apply to receive a 90% federal block grant to construct a five (5) unit T-hangar at the Airport; and

**WHEREAS**, the amount of grant sought for the construction is 90% of \$690,000.00 or Six Hundred Twenty-One Thousand and 00/100 Dollars (\$621,000.00) (“grant amount”); and

**WHEREAS**, the City desires to designate the City Manager to execute all application documents on behalf of the applicant.

**NOW, THEREFORE BE IT RESOLVED** by the City of Neosho, Missouri, that the attached Application for federal block grant funding of 90% of \$690,000.00 to construct a 5 unit T-hangar be approved.

**THEREFORE, BE IT FURTHER RESOLVED**, that the City Manager or other designated City Official is authorized to execute all necessary documents to effectuate the same.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this \_\_\_\_\_ day of \_\_\_\_\_, 2024, by a vote of \_\_\_\_ yes, \_\_\_\_ no.

\_\_\_\_\_  
Richard Davidson, Mayor

ATTEST:

\_\_\_\_\_  
Cheyenne Wright, City Clerk

SEAL

APPROVED AS TO FORM:

\_\_\_\_\_  
Derek A. Snyder, City Attorney



# APPLICATION FOR FEDERAL/STATE ASSISTANCE

## Aviation Section

Airport Name:

**Neosho Hugh Robinson (EOS)**

|                                                                                                                                                                                                                                                                                            |                                                                       |                                                                                                      |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>1. TYPE OF SUBMISSION</b>                                                                                                                                                                                                                                                               |                                                                       | <b>2. DATE SUBMITTED</b>                                                                             |                             |
| <b>Application</b>                                                                                                                                                                                                                                                                         | <b>Funding Type Requested</b>                                         |                                                                                                      |                             |
| <input checked="" type="checkbox"/> Construction                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Federal (Block Grant – 90% Funds) | <b>3. DATE RECEIVED BY STATE</b>                                                                     |                             |
| <input type="checkbox"/> Non-Construction                                                                                                                                                                                                                                                  | <input type="checkbox"/> State (Trust Fund – 90% Funds)               |                                                                                                      |                             |
|                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Federal & State                              | <b>ASM Input Date (Internal use only):</b>                                                           |                             |
| <b>4. APPLICANT INFORMATION</b>                                                                                                                                                                                                                                                            |                                                                       |                                                                                                      |                             |
| Sponsor's Name:                                                                                                                                                                                                                                                                            |                                                                       | Organizational Unit:                                                                                 |                             |
| <b>City of Neosho, Missouri</b>                                                                                                                                                                                                                                                            |                                                                       | Department:                                                                                          |                             |
|                                                                                                                                                                                                                                                                                            |                                                                       | Division:                                                                                            |                             |
| Address:                                                                                                                                                                                                                                                                                   |                                                                       | Name and telephone of person to be contacted on matters involving this application (give area code): |                             |
| Street: <b>203 E. Main Street</b>                                                                                                                                                                                                                                                          |                                                                       | Prefix: <b>Mr.</b>                                                                                   | First Name: <b>Richard</b>  |
| City: <b>Neosho</b>                                                                                                                                                                                                                                                                        |                                                                       | Middle Name:                                                                                         |                             |
| County: <b>Newton</b>                                                                                                                                                                                                                                                                      |                                                                       | Last Name: <b>Leavens</b>                                                                            |                             |
| State: <b>Missouri</b>                                                                                                                                                                                                                                                                     | Zip Code: <b>64850</b>                                                | Suffix:                                                                                              |                             |
| Country: United States                                                                                                                                                                                                                                                                     |                                                                       | Email: <b>rleavens@neoshomo.gov</b>                                                                  |                             |
| <b>5. TYPE OF APPLICATION</b>                                                                                                                                                                                                                                                              |                                                                       | Phone Number (give area code)                                                                        | Fax Number (give area code) |
| <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision                                                                                                                                                                            |                                                                       | (417) 451-8050                                                                                       | (417) 451-8065              |
| If Revision, check appropriate type:                                                                                                                                                                                                                                                       |                                                                       | <b>6. TYPE OF APPLICANT</b>                                                                          |                             |
| <input type="checkbox"/> Increase Award                                                                                                                                                                                                                                                    |                                                                       | <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> County                        |                             |
| <input type="checkbox"/> Decrease Award                                                                                                                                                                                                                                                    |                                                                       | Other (Specify)                                                                                      |                             |
| <input type="checkbox"/> Increase Duration                                                                                                                                                                                                                                                 |                                                                       |                                                                                                      |                             |
| <input type="checkbox"/> Decrease Duration                                                                                                                                                                                                                                                 |                                                                       |                                                                                                      |                             |
| <b>7. DESCRIPTIVE TITLE OF SPONSOR'S PROJECT (brief description):</b>                                                                                                                                                                                                                      |                                                                       |                                                                                                      |                             |
| Construct 5-Unit T-Hangar (PHASE II)                                                                                                                                                                                                                                                       |                                                                       |                                                                                                      |                             |
| <b>8. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.):</b>                                                                                                                                                                                                                      |                                                                       | <b>9. MoDOT TRANSPORTATION DISTRICT:</b>                                                             |                             |
| <b>Neosho, Newton County, Missouri</b>                                                                                                                                                                                                                                                     |                                                                       | <b>Southwest</b>                                                                                     |                             |
| <b>10. NUMBER OF BASED AIRCRAFT:</b>                                                                                                                                                                                                                                                       |                                                                       | SE: 22                                                                                               | ME: 1                       |
|                                                                                                                                                                                                                                                                                            |                                                                       | Military: 0                                                                                          | Jet: 0                      |
|                                                                                                                                                                                                                                                                                            |                                                                       |                                                                                                      | Helicopter: 1               |
|                                                                                                                                                                                                                                                                                            |                                                                       |                                                                                                      | Glider: 1                   |
|                                                                                                                                                                                                                                                                                            |                                                                       |                                                                                                      | Ultralight: 0               |
| <b>11. NUMBER OF ANNUAL OPERATIONS (an operation is a takeoff or a landing):</b> 6,172                                                                                                                                                                                                     |                                                                       |                                                                                                      |                             |
| <b>12. PROPOSED PROJECT TIMELINE</b>                                                                                                                                                                                                                                                       |                                                                       | <b>13. STATE &amp; FEDERAL CONGRESSIONAL DISTRICTS OF</b>                                            |                             |
| Start Date:                                                                                                                                                                                                                                                                                | Ending Date:                                                          | a. Sponsor                                                                                           | b. Project Location         |
| <b>08/26/2024</b>                                                                                                                                                                                                                                                                          | <b>12/31/2025 (closeout)</b>                                          | State: 160                                                                                           | State: 160                  |
|                                                                                                                                                                                                                                                                                            |                                                                       | Federal: 7                                                                                           | Federal: 7                  |
| <b>14. ESTIMATED FUNDING:</b>                                                                                                                                                                                                                                                              |                                                                       | <b>15. ESTIMATED FUNDING:</b>                                                                        |                             |
| FEDERAL FUNDING (90%)                                                                                                                                                                                                                                                                      |                                                                       | STATE FUNDING (90%)                                                                                  |                             |
| a. Federal (Varies)                                                                                                                                                                                                                                                                        | \$ 621,000.00                                                         | a. State                                                                                             | \$ .00                      |
| b. Local (Varies)                                                                                                                                                                                                                                                                          | \$ 69,000.00                                                          | b. Local                                                                                             | \$ .00                      |
| c. Other                                                                                                                                                                                                                                                                                   | \$ .00                                                                | c. Other                                                                                             | \$ .00                      |
| d. TOTAL                                                                                                                                                                                                                                                                                   | \$ 690,000.00                                                         | d. TOTAL                                                                                             | \$ .00                      |
| e. TOTAL (combined funding)                                                                                                                                                                                                                                                                |                                                                       | \$ 690,000.00                                                                                        |                             |
| <b>16. IS THE APPLICANT DELINQUENT ON ANY STATE/FEDERAL DEBT?</b> <input type="checkbox"/> Yes, If "Yes", attach an explanation <input checked="" type="checkbox"/> No                                                                                                                     |                                                                       |                                                                                                      |                             |
| <b>17. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT. THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.</b> |                                                                       |                                                                                                      |                             |
| a. Authorized Representative                                                                                                                                                                                                                                                               |                                                                       |                                                                                                      |                             |
| Prefix <b>Mr.</b>                                                                                                                                                                                                                                                                          | First Name: <b>Richard</b>                                            | Middle Name:                                                                                         |                             |
| Last Name: <b>Leavens</b>                                                                                                                                                                                                                                                                  |                                                                       | Suffix:                                                                                              |                             |
| b. Title: <b>Development Services Director</b>                                                                                                                                                                                                                                             |                                                                       | c. Telephone: <b>(417) 451-8050</b>                                                                  |                             |
| d. Signature of Authorized Representative:                                                                                                                                                                                                                                                 |                                                                       | e. Date Signed:                                                                                      |                             |

**PART II****PROJECT APPROVAL INFORMATION**Item 1.

Does this assistance request require State, local, regional, or other priority rating?

☐ Yes ☒ No

Name of Governing Body:

Priority:

Item 2.

Does this assistance request require State, or local advisory, educational or health clearances?

☐ Yes ☒ No

Name of Agency or Board:  
(Attach Documentation)

Item 3.

Does this assistance request require clearinghouse review in accordance with OMB Circular A-95?

☐ Yes ☒ No

(Attach Comments)

Item 4.

Does this assistance request require State, local, regional or other planning approval?

☒ Yes ☐ No

Name of Approving Agency: **MoDOT Aviation (ALP)**

Date: **06/11/09**

Item 5.

Is the proposal project covered by an approved comprehensive plan?

☐ Yes ☒ No

Check one:

☐ State ☐ Local ☐ Regional

Location of Plan:

Item 6.

Will the assistance requested serve a Federal installation?

☐ Yes ☒ No

Name of Federal Installation:

Federal Population benefiting from Project:

Item 7.

Will the assistance requested be on Federal land or installation?

☐ Yes ☒ No

Name of Federal Installation:

Location of Federal Land:

Percent of Project:

Item 8.

Will the assistance requested have an impact or effect on the environment?

☐ Yes ☒ No

(See instructions for additional information to be provided.)

Item 9.

Will the assistance requested cause the displacement of individuals, families, businesses, or farms?

☐ Yes ☒ No

Number of:

Individuals:

Families:

Businesses:

Farms:

Item 10.

Is there other related Federal assistance on this project previous, pending, or anticipated?

☐ Yes ☒ No

(See instructions for additional information to be provided.)

**PART II-A****The Sponsor hereby represents and certifies as follows:**

1. Compatible Land Use - The Sponsor has taken the following actions to assure compatible usage of land adjacent to or in the vicinity of the airport:

Current ALP and Exhibit "A" Property Map are on file with MoDOT.

2. Defaults - The Sponsor is not in default on any obligation to the State of Missouri, United States or any agency of the United States Government relative to the development, operation, or maintenance of any airport, except as stated herewith:

None.

3. Possible Disabilities - There are no facts or circumstances (including the existence of effective or proposed leases, use agreements or other legal instruments affecting use of the Airport or the existence of pending litigation or other legal proceedings) which in reasonable probability might make it impossible for the Sponsor to carry out and complete the Project or carry out the provisions of the Grant Assurances, either by limiting its legal or financial ability or otherwise, except as follows:

None.

4. Consistency with Local Plans - The project is reasonably consistent with plans (existing at the time of submission of this application) of public agencies that are authorized by the State of Missouri to plan for the development of the area surrounding the airport.

5. Consideration of Local Interest - It has given fair consideration to the interest of communities in or near where the project may be located.

6. Consultation with Users - In making a decision to undertake any airport development project under Title 49, United States Code, it has undertaken reasonable consultations with affected parties using the airport which project is proposed.

7. Public Hearings - In projects involving the location of an airport, an airport runway or a major runway extension, it has afforded the opportunity for public hearings for the purpose of considering the economic, social, and environmental effects of the airport or runway location and its consistency with goals and objectives of such planning as has been carried out by the community and it shall, when requested by the Secretary, submit a copy of the transcript of such hearings to the Secretary. Further, for such projects, it has on its management board either voting representation from the communities where the project is located or has advised the communities that they have the right to petition the Secretary concerning a proposed project.

8. Air and Water Quality Standards – In federally-funded projects involving airport location, a major runway extension, or runway location it will provide for the Governor of the State of Missouri to certify in writing to the Secretary of the United States Department of Transportation that the project will be located, designed, constructed, and operated so as to comply with applicable and air and water quality standards. In any case where such standards have not been approved and where applicable air and water quality standards have been promulgated by the Administrator of the Environmental Protection Agency, certification shall be obtained from such Administrator. Notice of certification or refusal to certify shall be provided within sixty days after the project application has been received by the Secretary.



**PART II-A (Continued)**

9. Exclusive Rights – There is no grant of an exclusive right for the conduct of any aeronautical activity at any airport owned or controlled by the Sponsor except as follows:

None.

10. Land. – (a) The sponsor holds the following property interest in the following areas of land\* which are to be developed or used as part of or in connection with the Airport subject to the following exceptions, encumbrances, and adverse interests, all of which areas are identified on the aforementioned property map designated as Exhibit “A”:

The current Exhibit “A” Property Map is on file with MoDOT.

The Sponsor further certifies that the above is based on a title examination by a qualified attorney or title company and that such attorney or title company has determined that the Sponsor holds the above property interests.

(b) The Sponsor will acquire within a reasonable time, but in any event prior to the start of any construction work under the Project, the following property interest in the following areas of land\* on which such construction work is to be performed, all of which areas are identified on the aforementioned property map designated as Exhibit “A”:

N/A

(c) The Sponsor will acquire within a reasonable time, and if feasible prior to the completion of all construction work under the Project, the following property interest in the following areas of land\* which are to be developed or used as part of or in connection with the Airport as it will be upon completion of the Project, all of which areas are identified on the aforementioned property map designated as Exhibit “A”:

N/A

---

*\*State character of property interest in each area and list and identify for each all exceptions, encumbrances, and adverse interests of every kind and nature, including liens, easements, leases, etc. The separate areas of land need only be identified here by the area numbers shown on the property map.*

**PART III  
SECTION A. GENERAL**

MISSOURI DEPARTMENT OF TRANSPORTATION – AVIATION SECTION

FUNDING APPLICATION Rev. 1-2016

MISSOURI DEPARTMENT OF TRANSPORTATION – AVIATION SECTION

FUNDING APPLICATION Rev. 1-2016

| <b>PART III - BUDGET INFORMATION – CONSTRUCTION OR NON-CONSTRUCTION</b>         |                        |                     |                        |                        |
|---------------------------------------------------------------------------------|------------------------|---------------------|------------------------|------------------------|
| <b>SECTION A - CALCULATION OF FEDERAL BLOCK GRANT OR STATE TRUST FUND GRANT</b> |                        |                     |                        |                        |
| Cost Classification                                                             | Use only for revisions |                     | Federal (Varies%)      | State (90%)            |
|                                                                                 | Latest Approved Amount | Adjustment + or (-) | Estimated Costs (100%) | Estimated Costs (100%) |
| 1. Administration expense                                                       | \$ .00                 | \$ .00              | 3,000.00               | \$ .00                 |
| 2. Preliminary expense                                                          | .00                    | .00                 | 3,000.00               | .00                    |
| 3. Architectural/engineering design basic fees                                  | .00                    | .00                 | 29,000.00              | .00                    |
| 4. Other Architectural engineering fees                                         | .00                    | .00                 | .00                    | .00                    |
| 5. Project Construction costs                                                   | .00                    | .00                 | 570,000.00             | .00                    |
| 6. Project inspection fees                                                      | .00                    | .00                 | 85,000.00              | .00                    |
| 7. Land, structures, right-of-way acquisition                                   | .00                    | .00                 | .00                    | .00                    |
| 8. Relocation Expenses                                                          | .00                    | .00                 | .00                    | .00                    |
| 9. Demolition and removal                                                       | .00                    | .00                 | .00                    | .00                    |
| 10. Planning                                                                    | .00                    | .00                 | .00                    | .00                    |
| 11. Environmental                                                               | .00                    | .00                 | .00                    | .00                    |
| 12. Equipment                                                                   | .00                    | .00                 | .00                    | .00                    |
| 13. Miscellaneous                                                               | .00                    | .00                 | .00                    | .00                    |
| 14. Total Estimated Costs (100%)(Lines 1 through 13)                            | \$ .00                 | \$ .00              | \$690,000.00           | \$ .00                 |
| 15. Federal Funding Amount (Varies %)                                           | .00                    | .00                 | 621,000.00             |                        |
| 16. Sponsor Share (Varies%)                                                     | .00                    | .00                 | 69,000.00              |                        |
| 17. State Funding Amount (5%)                                                   | .00                    | .00                 | .00                    | .00                    |
| 18. Sponsor Share                                                               | .00                    | .00                 | .00                    | .00                    |

Part III, Page 5

**PART IV**

**SECTION B - EXCLUSIONS**

| DESCRIPTION     | Ineligible for Participation |
|-----------------|------------------------------|
| a.              | \$                           |
| b.              |                              |
| c.              |                              |
| d.              |                              |
| e.              |                              |
| f.              |                              |
| g. <b>TOTAL</b> | \$                           |

**SECTION C - PROPOSED METHOD OF FINANCING NON-FEDERAL OR NON-STATE SHARE**

|                                  |                 |
|----------------------------------|-----------------|
| <b>Grantee Share</b>             |                 |
| a. Securities                    |                 |
| b. Mortgages                     |                 |
| c. Appropriations (By Applicant) | 69,000          |
| d. Bonds                         |                 |
| e. Tax Levies                    |                 |
| f. Non Cash                      |                 |
| g. Other (Explain)               |                 |
| h. TOTAL - Grantee share         | <b>\$69,000</b> |
| <b>Other Shares</b>              |                 |
| a. Other Government Agency       |                 |
| b. Other                         |                 |
| c. TOTAL - Other Shares          | \$              |
| <b>TOTAL</b>                     | <b>\$69,000</b> |

**SECTION D - REMARKS**

|  |
|--|
|  |
|--|

**Part III, Page 6**

**PROGRAM NARRATIVE**  
(Suggested Format)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROJECT : Construct 5-Unit T-Hangar (PHASE II)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AIRPORT : Neosho Hugh Robinson (EOS)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>1. Objective:</p> <p>Construct a 5-Unit T-Hangar as Phase II of a two-phased project. Phase I constructed the taxiways that will serve the hangar.</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>2. Benefits Anticipated:</p> <p>Additional based aircraft, operations, and fuel sales.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>3. Approach:</p> <p>The design phase will include a review of record drawings. Construction plans and specifications in accordance with FAA criteria and project specific needs, alongside coordination with the Architect and City of Neosho, will provide a complete bidding package for the construction of the hangar. A project budget and opinion of probable construction cost will be produced as well. After completing a final set of final plans and specifications, bids will be solicited from prospective contractors.</p> <p>Prime Consultant – Lochner, Design</p> |
| <p>4. Geographic Location:</p> <p>Neosho Hugh Robinson Airport (EOS), Neosho, Newton County, Missouri</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>5. If Applicable, Provide Additional Information:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>6. Sponsor's Representative: <i>(include address &amp; telephone number)</i></p> <p>Mr. Richard Leavens<br/> Development Services Director<br/> 203 E. Main Street<br/> Neosho, MO 64850<br/> (417) 451-8050</p>                                                                                                                                                                                                                                                                                                                                                                   |

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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Land Lease Spring and Lafayette Streets

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**ORIGINATING DEPARTMENT:** City Manager

**ATTACHMENT:**

1. Bill No. 2023-172 Lease w NSD RE Lafayette and Spring
  2. 220 E. Spring\_Warranty Deed and Agreement
- 

**PURPOSE:**

To renegotiate the terms of an existing lease agreement with the Neosho School District and City of Neosho.

**BACKGROUND:**

The City of Neosho previously discussed a lease agreement with Neosho Schools District for the development of a playground system for the RISE School at Spring and Lafayette Streets. The agreement was approved and signed by the Council, however, not by the district. At that time, the district had bought other properties adjacent to the RISE facility and the project never moved forward.

I have been approached again by the district about the lease. It does appear they still wish to move forward with the playground. However, it was also discussed if this district could purchase the parcel of property. This property was purchased by the City in 2009 as a part of a Downtown Revitalization Grant through CDBG. I spoke with HSTCC, and they indicated that after 5 years the city has the right to sell the property if this is what the council desires to do.

**RECOMMENDATION:**

AN ORDINANCE authorizing the City of Neosho, Missouri, to enter into an Agreement with the Neosho School District, a political subdivision and public school district of the State of Missouri, for the purpose of leasing certain land in the area of Lafayette Street and Spring Street, Neosho, Missouri; and authorizing the Mayor to execute the same by and on behalf of the City of Neosho.

WHEREAS, the City of Neosho, Missouri, is the owner of certain land in the area of Lafayette Street and Spring Street, Neosho, Missouri, Newton County Assessor Property Number 15-4.0-19-003-011-008.00 and 15-4.0-19-003-011-007.000; and

WHEREAS, Neosho School District, a political subdivision and public school district of the State of Missouri, desires to lease a portion of said property for the purpose of building and maintaining a playground for its STEAM Academy.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, as follows:

Section 1. That the Agreement by and between the City of Neosho, Missouri, and the Neosho School District, a political subdivision and public school district of the State of Missouri, for the purpose of leasing certain land in the area of Lafayette Street and Spring Street, Neosho, a true and accurate copy of said Agreement being attached hereto and incorporated as Exhibit "A," be and the same is hereby approved.

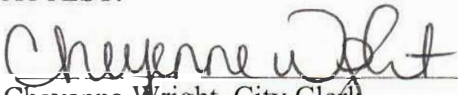
Section 2. That the Mayor of the City of Neosho, Missouri, is hereby authorized and directed to execute said Agreement by and on behalf of the City of Neosho.

Section 3. That this Ordinance shall be in full force and effect from and after its passage.

PASSED BY THE COUNCIL OF THE CITY OF NEOSHO, MISSOURI, this 5<sup>th</sup> day of September, 2023, by a vote of 7-yes  
0-no

  
Richard Davidson, Mayor

ATTEST:

  
Cheyenne Wright, City Clerk

APPROVED AS TO FORM:

  
Jordan L. Paul, City Attorney

## LEASE AGREEMENT

THIS AGREEMENT is made and entered into this 5<sup>th</sup> day of September, 2023, by and between the CITY OF NEOSHO, MISSOURI, a Missouri Municipal Corporation, hereinafter referred to as "Lessor", and the NEOSHO SCHOOL DISTRICT, a political subdivision and public school district of the State of Missouri, hereinafter referred to as "Lessee", and with Lessor and Lessee being referred to collectively as "the Parties."

WHEREAS, Lessor is the owner of certain land in the area of Lafayette Street and Spring Street, Neosho, Missouri, Newton County Assessor Property Number 15-4.0-19-003-011-008.00 and 15-4.0-19-003-011-007.000, and described on Exhibit A, attached hereto and incorporated by reference, hereinafter referred to as the "the Premises"; and

WHEREAS, Lessee desires to lease a portion of the Premises, as depicted on Exhibit A, for the purpose of building and maintaining a playground for its STEAM Academy.

NOW, THEREFORE, in exchange for valuable consideration each received from the other, the receipt and sufficiency of which are hereby acknowledged, the Parties do hereby agree as follows:

1. Recitals Incorporated. The above recitals are incorporated as if restated in full herein.
2. Term. The original term of this Lease shall commence on September 6, 2023, hereinafter referred to as "the Effective Date." The term of this Agreement shall be for one (1) year, from September 6, 2023, to September 5, 2024. This Agreement shall automatically renew for successive terms of one (1) year under the same terms and conditions, unless terminated pursuant to the terms of this Agreement.
3. Premises. Lessor leases to Lessee and Lessee leases from Lessor, a portion of certain land in the area of Lafayette Street and Spring Street, Neosho, Missouri, Newton County Assessor Property Number 15-4.0-19-003-011-008.00 and 15-4.0-19-003-011-007.000, and described on Exhibit A, attached hereto and incorporated by reference, hereinafter referred to as "the Premises."
4. Rent. Intentionally omitted.
5. Use of Premises by Lessee. Lessee is a political subdivision and public school district of the State of Missouri and the Premises shall be used solely by Lessee and solely for the purposes described herein, unless written permission is given by an authorized representative of Lessor. Lessee shall use the Premises solely for the purposes of building and maintaining a playground for its STEAM Academy. Any other use of the Premises is prohibited. Lessee shall not perform any acts or carry on any practices that may injure the Premises or be a nuisance or menace. If this Agreement is terminated, Lessee shall leave the Premises in the same condition as it was prior to the start of this Agreement, excepting its improvements as described herein. Lessee



shall be responsible for securing the Premises. Lessor is not responsible for any loss suffered by Lessee or the public.

6. Fixtures and Alterations. Lessor and Lessee hereby agree that the Premises are Leased in an "AS IS" condition. If this Agreement is terminated, Lessee may remove its improvements as described herein so long as Lessee repairs any resulting damage. If Lessee fails or refuses to remove said improvements by the date of termination, they shall become and remain Lessor's property without any compensation of any kind paid to Lessee.

7. Condition of Leased Premises. Lessee shall at all times keep the Premises in a neat and orderly condition.

8. Right of Entry. Lessor or Lessor's agents shall have the right to enter the Premises at all reasonable times to examine the same. The Parties acknowledge and agree that Lessor is scheduled to build a parking lot and water quality basin adjacent to the Premises and that Lessor may encroach on the Premises during construction of said improvements.

9. Damage or Destruction of Leased Premises. In the event that the Premises are destroyed or damaged so as to be unfit for use by fire, storm, explosion, earthquake or other casualty, so as not to be capable of being economically rebuilt or restored, then this Lease shall be automatically terminated.

10. Default. In the event of any failure by Lessee to perform any of the terms, conditions, or covenants of this Lease to be observed or performed by Lessee for more than thirty (30) days after written notice of such default shall have been given to Lessee, then Lessor may terminate this Agreement and pursue any available relief at law or equity.

11. Termination. Either party may terminate this Lease, without cause, by giving the other party thirty (30) days' written notice of the same.

12. Amendments. The covenants and obligations herein contained are the full and complete terms of this Lease, and no alteration, amendments, or changes to such terms shall be binding unless first reduced to writing and executed with the same formality as this Lease.

13. Assignment. This Lease, including payment hereunder, shall not be sub-let, assigned, or otherwise disposed of, except with the prior written consent of Lessor.

14. Choice of Law and Venue. This Lease has been made, and its validity, performance and effect shall be determined, in accordance with the laws of the State of Missouri and venue for litigation between the parties shall be solely and exclusively in Newton County, Missouri.

15. Compliance with Laws. Lessee shall observe and comply with all Federal, State, and local laws and ordinances that affect those employed or engaged by it on the project, or the material or equipment used, or the conduct of the work, and shall procure all necessary licenses, permits, and insurance.



16. Counterparts. This Agreement may be signed in counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument. Facsimile signatures shall be given the same force and effect as original signatures.

17. Entire Agreement. This Lease (including any Exhibits) contains the entire understanding of the parties with respect to the subject matter hereof. It may not be altered or amended except by an agreement in writing signed by both parties.

18. Headings. The headings of paragraphs in this Lease are for convenience only. The headings form no part of this Lease and shall not affect its interpretation.

19. Indemnification. Lessee hereby assumes all risk of, and responsibility for, and agrees to indemnify and save harmless Lessor, from and against any and all claims, demands, suits, actions, recoveries, judgments, costs, and expenses, therewith made, brought or obtained on account of the loss of life or property or injury or damage to the person or property of any person or persons, whether such person or persons be Lessor, its elected officials, officers, employees, contractors, or agents, Lessee, its elected officials, officers, employees, contractors, or agents, or any third-person, including members of the public, which loss of life or property, or injury or damage to persons or property, shall be due to, or arise out of, result from, or be in any way connected with Lessee's, or Lessee's employees', agents', students', invitees', or trespassers' use of the Premises.

20. Insurance. Lessee shall secure and maintain at its own cost and expense, throughout the duration of this Lease, insurance of such types and in such amounts as may be necessary to protect it and the interests of Lessor against all hazards or risks of loss as hereunder specified or which may arise out of the performance of this Lease, with limits of liability not less than the sovereign immunity limits for Missouri public entities calculated by the Missouri Department of Insurance as of January 1 each calendar year and published annually in the Missouri Register pursuant to Section 537.610, RSMo. (See, <http://insurance.mo.gov/industry/sovimunity.php>)

21. Notices. All notices required or permitted hereinunder and required to be in writing may be given by first class mail addressed to Lessor and Lessee at the addresses as follows:

City of Neosho, Missouri  
ATTN: City Manager  
203 E. Main St.  
Neosho, MO 64850

Neosho School District  
ATTN: Superintendent  
418 Fairground Road  
Neosho, MO 64850

The date of delivery of any notice given by mail shall be the date falling on the second full day after the day of its mailing.

22. Payment for Labor and Materials. Lessee agrees and binds itself to pay for all labor done, and for all the materials used in the construction of any work to be completed pursuant to this contract.

23. Representations. The signatories hereto represent and warrant that they have read

this Lease, that they are fully authorized in the capacities shown, that they understand the terms of this Lease, and that they are executing the same voluntarily and solely for the consideration described herein.

24. Severability. If any of the provisions of this Lease shall be construed to be invalid or illegal, the legality or validity of the other provisions of this Lease shall not be effected thereby. Any illegal or invalid provision of this Lease shall be severable and any other provisions shall remain in full force and effect.

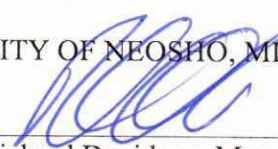
25. Third-Party Beneficiaries. This Lease shall not confer any rights or remedies upon any person other than the parties and their respective successors and permitted assigns.

26. Waiver. Waiver of any provision of this Lease or breach of this Lease shall not thereafter be deemed to be a consent by the waiving party to any further waiver, modification or breach by the other party, whether new or continuing, of the same or any other covenant, condition or provision of this Lease. Failure by one of the parties to this Lease to assert its rights for any breach of this Lease shall not be deemed a waiver of such rights.

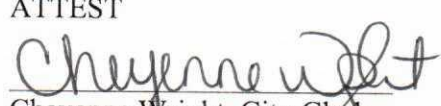
IN WITNESS WHEREOF, the parties have caused these presents to be executed in duplicate as of the day and year first above written.

**LESSOR**

CITY OF NEOSHO, MISSOURI

  
Richard Davidson, Mayor

ATTEST

  
Cheyenne Wright, City Clerk

**LESSEE**

NEOSHO SCHOOL DISTRICT

\_\_\_\_\_  
Jonathan Russell, President

ATTEST

\_\_\_\_\_  
Steffen Wiest, Secretary





## CONTRACT FOR SALE OF REAL ESTATE

**THIS AGREEMENT**, made and entered into this 4<sup>th</sup> day of August, 2009, by and between the Neosho Area Business and Industrial Foundation Inc., hereinafter referred to as Sellers (whether one or more), and **City of Neosho, a municipality of the State of Missouri**, hereinafter referred to as Buyer;

### Witnesseth:

For and in consideration of the sale price herein set forth, the Sellers hereby sell to the Buyer and Buyer hereby purchases from Sellers on the terms and conditions herein set forth, the real estate in Neosho, Missouri, in Newton County, described as follows:

All of Lots 1, 2, and 3 in Block 2 McCord's Addition to the City of Neosho, Newton County, Missouri, according to the recorded plat thereof.

### TERMS AND CONDITIONS:

The total sale price shall be the sum of Sixty Four Thousand and 00/100 (\$64,000.00), payable in full at the time of closing of this transaction; provided, however, that there shall be deducted from the total sale price any amount due to any other parties.

1. Possession of the said premises shall be given to Buyer within 10 days after the date of closing of this transaction.
2. Buyer is a tax exempt municipal corporation. As such no property taxes shall be assessed during a year in which the Buyer has ownership interest of said real estate. Therefore, no real estate tax responsibility shall be assessed against Seller.
3. Upon the closing of this transaction the Sellers shall convey the said premises to Buyer by general warranty deed, free and clear of all liens and encumbrances.
4. Sellers shall provide to Buyer any existing abstract of title for the said real estate, but Sellers shall not be responsible for furnishing title insurance to the said premises, but if written notice of any title defects to be cured. It is understood and agreed that the title required to be furnished is a marketable title as set forth in Title Standard 4 of The Missouri Bar. It is also agreed that any encumbrance or defect in the title which is within the scope of any of the Title Standards of the Missouri Bar shall not constitute a valid objection on the part of the Buyer, provided the Sellers furnish the affidavits, or other title papers, if any, described in the applicable Standard.
5. Notwithstanding the provisions of the preceding paragraph, the Sellers may, at their option, defer correcting any liens or encumbrances shown as a title defect until the time of closing of this transaction if that lien or encumbrance can be corrected by payment of funds available for the sale price. If sellers have not corrected any such lien or encumbrance prior to the time of closing of this transaction then Sellers shall be considered to have automatically

authorized payment, out of the sale price, of the amount required to satisfy any such lien or encumbrance.

6. Unless defects are noted in the title to the said real estate, this transaction shall be closed within 30 days from the date of this agreement. If defects are noted in the abstract of title then this transaction shall be closed promptly after those defects are corrected. But if Sellers are unable, despite taking all reasonable efforts, to correct those defects in the title within 90 days from the date of this agreement then either party may, upon giving at least 10 days written notice to the other party, terminate this agreement. In this event, all parties shall be relieved of further obligations hereunder.
7. If this transaction is not closed as herein required because of default on the part of either party, then the other party may, after giving at least 10 days written notice to the defaulting party, either terminate this agreement (in which event all parties shall be relieved of further obligations hereunder) or, take such action as is authorized by law for breach of contract, including an action for specific performance.
8. Any notices to be given to the parties hereto shall be in writing and shall be considered given one business day after the date that the said notice is deposited in the U.S. Mail, postage prepaid, registered or certified with return receipt requested, and addressed to the party entitled to receive the notice as follows:

For Sellers: Neosho Area Business and Industrial Foundation, Inc. PO Box 605,  
Neosho, MO 64850

For Buyers: City of Neosho, 203 E. Main, Neosho, MO 64850

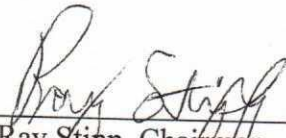
9. This agreement shall be binding upon and shall be for the benefit of the parties hereto, their heirs, administrators, executors, successors, and assigns.

**IN WITNESS WHEREOF**, the parties have executed this agreement as of the day and year above written.

Neosho Area Business and  
Industrial Foundation, Inc.

City of Neosho

By:

  
Ray Stipp, Chairman

By:

  
Jeff Werneke, Mayor



Fi

\$27.00



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Recorded: 09/04/2009 at 09:55:23 AM  
Total Amt: \$27.00 Page 1 of 2  
Newton County Recorder  
Lenora Hyder Recorder of Deeds  
File# 2009-00008450

BK 358 PG 6427



Space Above Reserved for Recorder of Deeds  
MISSOURI  
Corporation Warranty Deed

#43514 \$27.00

Return: Grantee

**This Indenture**, Made on the 2nd day of September, 2009, by and between Neosho Area Business and Industrial Foundation, Inc. a corporation, duly organized under the laws of the State of Missouri, of the County of, State of Missouri, Grantor, party of the first part, and City of Neosho, a municipality of the State of Missouri of the County of Newton, State of Missouri, party, Grantee, of the second part,

(Grantee mailing address of said first name grantee is 220 E Spring, Neosho, MO 64850).

**WITNESSETH: THAT SAID PARTY OF THE FIRST PART**, in consideration of the sum of TEN DOLLARS, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, does by these presents, GRANT, BARGAIN AND SELL, CONVEY AND CONFIRM, unto the said party of the second part, his/her heirs and assigns, the following described lots, tracts or parcels of land, lying, being and situate in the County of Newton and State of Missouri to wit:

All of Lots 1, 2 and 3 in Block 2 McCord's Addition to the City of Neosho, Newton County, Missouri, according to the recorded Plat thereof.

**TO HAVE AND TO HOLD**, The premises aforesaid, with all and singular the rights, privileges, appurtenances and immunities thereto belonging or in anywise appertaining, unto the said party of the second part and unto their heirs and assigns forever, the said Neosho Area Business and Industrial Foundation, Inc. hereby covenanting that it is lawfully seized of an indefeasible estate in fee in the premises herein conveyed; that it has good right to convey the same; that the said premises are free and clear from any encumbrance done or suffered by it or those under whom it claims; and that Neosho Area Business and Industrial Foundation, Inc. will warrant and defend the title of the said premises unto the said party of the second part and unto his/her heirs and assigns forever, against the lawful claims and demands of all persons whomsoever.

**IN WITNESS WHEREOF**, The said party of the first part has caused these presents to be signed by its President and attested by its Secretary, and the corporate seal to be hereto attached, the day and year first above written.

Neosho Area Business and Industrial  
Foundation, Inc.

By

Ray Stipp President

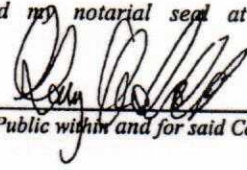
\_\_\_\_\_  
Secretary

STATE OF MISSOURI )  
 ) ss.  
COUNTY OF NEWTON )

On this 2<sup>nd</sup> day of September, 2009  
before me, appeared Ray Stipp to me personally known, who being by me duly sworn, did  
say that he is the President of Neosho Area Business and Industrial Foundation, Inc. a corporation, and  
that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said  
Ray Stipp, acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal at my office in  
Neosho, Missouri, the day and year last above written.

My commission expires: 1-3-2010

  
Notary Public within and for said County and State

GARY HENDRICKS  
Notary Public - Notary Seal  
STATE OF MISSOURI  
Newton County  
Commission # 06439939  
My Commission Expires Jan 3, 2010





Image# 003486990002 Type: LAN  
 Recorded: 11/21/2008 at 09:57:51 AM  
 Total Amt: \$27.00 Page 1 of 2  
 Newton County Recorder  
 Lenora Hyder Recorder of Deeds  
 File# 2008-00009207

BK 357 PG 9178



Return Grantee

## Warranty Deed

# 41698 \$27.00

THIS DEED, Made and entered into this 17 day of November, 2008, by and between Vaughn X. Prost and Monika M. Prost, husband and wife party or parties of the first part, of Boone County, State of Missouri, Grantor(s) and Neosho Area Business and Industrial Foundation, Inc. party or parties of the second part, of Newton County, State of Missouri, Grantee(s).

Grantee's mailing address is: PO Box 605, Neosho MO 64850

WITNESSETH, that the said party or parties of the first part, for and in consideration of the sum of One Dollar and other valuable considerations paid by the said party or parties of the second part, the receipt of which is hereby acknowledged, does or do by these presents GRANT, BARGAIN, AND SELL, CONVEY AND CONFIRM unto the said party or parties of the second part, the following described Real Estate, situated in the County of Newton and State of Missouri, to wit:

All of Lots 1, 2 and 3 in Block 2 McCord's Addition to the City of Neosho, Newton County, Missouri, according to the recorded plat thereof.

TO HAVE AND TO HOLD THE SAME, together with all rights, immunities, privileges and appurtenances to the same belonging, unto the said party or parties of the second part forever, the said party or parties of the first part covenanting that said party or parties and the heirs, executors, administrators and assigns of such party or parties shall and will WARRANT AND DEFEND the title to the premises unto the said party or parties of the second part, and to the heirs and assigns of such party or parties forever, against the lawful claims of all persons whomsoever, excepting however, the general taxes for the calendar year 2008 and thereafter, and special taxes becoming a lien after the date of this deed.

IN WITNESS WHEREOF, the said party or parties of the first part has or have hereunto set their hand or hands the day and year first above written.

Vaughn X. Prost  
 Vaughn X. Prost

Monika M. Prost  
 Monika M. Prost



## AFFIDAVIT AS TO LIENS AND ENCUMBRANCES

On this September 2, 2009, before me personally appeared Neosho Area Business and Industrial Foundation, Inc., Owner of property and/or General Contractor, to me personally known, who, being duly sworn on (his /their) oath(s), did say that all of the persons, firms and corporations, including the general contractor and all subcontractors who have furnished services, labor or materials according to plans and specifications, or extra items, used in the constructions or repair of buildings and improvements on the real estate hereinafter described, have been paid in full and that such work has been fully completed and accepted by the owner.

Affiant further says that no proceedings in bankruptcy or receivership have been instituted by or against him/them.

Affiant further says that no claims have been made to affiant by, nor is any suit now pending on behalf of any contractor, subcontractor, laborer or materialman, and further that no chattel mortgages, conditional bills of sale, retention of title agreements, security agreements, financing statements, or personal property leases have been given or are outstanding as to any fixtures, appliances, or equipment which are now installed in or upon said real property, or the improvements thereon.

Affiant further says that there are no outstanding deeds of trust, mortgages, judgment liens, mechanic's or materialmen's liens filed of record or unfiled claims or any other liens or encumbrances of any kind except as follows:

- NONE -

Affiant on behalf of said Owner of Property and/or General Contractor does for a valuable consideration hereby agree and guarantee to hold Fidelity Abstract and Title Co. (by reason of the fact that it has issued its title insurance policies), harmless against any liens, claims or suit of or by any general contractor, subcontractor, mechanic or materialman, and against chattel mortgages, conditional bills of sales, retention of title agreements, security agreements, financing statements, or personal property leases in connection with the construction, repair or sale of such building or improvements on said real estate.

The real estate and improvements referred to herein are situated in the County of Newton, State of Missouri, and are described as follows, to-wit:

220 E Spring, Neosho, MO 64850  
Lot 1, 2 & 3, Block 2, McCord's Addition

September 2, 2009

Date

Neosho Area Business and Industrial Foundation,  
Inc.

*[Signature]*

STATE OF MISSOURI  
COUNTY OF NEWTON

Sworn to and subscribed before me this 2<sup>nd</sup> day of September, 2009.

My Commission expires: *1-3-2010*

*[Signature]*

Notary Public

GARY HENDRICKS  
Notary Public - Notary Seal  
STATE OF MISSOURI  
Newton County  
Commission # 06439939

My Commission Expires Jan 3, 2010



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**REQUESTED COUNCIL MEETING DATE:** September 3, 2024**ITEM:** Leak Adjustment Versluis Utility Account

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**ORIGINATING DEPARTMENT:** Finance Department**ATTACHMENT:**

1. David Versluis 742 Oak Ridge Drive email
  2. Versluis June 2024 Statement Due July
  3. Versluis July 2024 Statement Due August
  4. Versluis David 010670 000 742 Oak Ridge Drive Usage
  5. Versluis David 010670 000 leak adjustment
  6. February Request and Plumber receipts
- 

**PURPOSE:**

Mr. Versluis requests a variance to our leak adjustment policy and allow for a second adjustment to his account in a twelve-month time span.

**BACKGROUND:**

Mr. Versluis was contacted via email by the billing clerk on June 4th for a high read at his residence. Mr. Versluis had Robin Plumbing check for a leak, and they found something had broken on the new service line installed in February. The leak was repaired by the plumber at no charge to Mr. Versluis on July 22<sup>nd</sup> and on August 2<sup>nd</sup> Mr. Versluis asked the billing clerk if he was able to submit for any relief for this current bill. During that correspondence, he was notified by code staff is only allowed to provide 2 leak adjustments per year and was offered a payment arrangement. Mr. Versluis was also notified that the leak carried over to the upcoming September bill.

The high reads were caused by a broken coupler on a new water line between the meter and the home. Mr. Versluis received a prior leak adjustment for both water and sewer in February for that leak and by city code Section 710.215(D) staff is unable to provide a second adjustment for this leak. A sewer adjustment was given for this second leak due to the nature and location of the leak. The total of the August and September bills are \$2,324.15 before the sewer adjustment. The balance left to pay after the sewer adjustment is \$1,485.04. A water adjustment using the current code of the last 3 readings, which includes when the leak is first detected and customer notified, is \$436.01.

**RECOMMENDATION:**

Staff is seeking the Council's guidance on whether another adjustment is to be approved for water.

---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** FY2025 Form 4379

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**ORIGINATING DEPARTMENT:** Finance Department

**ATTACHMENT:**

1. DOR Form 4379

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**PURPOSE:**

The purpose of this item is to approve the DOR form 4379.

**BACKGROUND:**

DOR form 4379 allows those listed to view the tax information provided by the State of Missouri.

**RECOMMENDATION:**

Staff recommends Council approve the names on the list and allow the Mayor to sign as Chief Executive.

---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** DOR Form 4592

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**ORIGINATING DEPARTMENT:** Finance Department

**ATTACHMENT:**

1. DOR Form 4592

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**PURPOSE:**

The purpose of this item is to approve the DOR form 4592

**BACKGROUND:**

DOR form 4592 allows those listed to view the cigarette tax information provided by the State of Missouri.

**RECOMMENDATION:**

Staff recommends Council approve the names on the list and allow the Mayor to sign as Chief Executive.

---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Irrevocable Consent to Annexation 1372 Neosho Drive

---

**ORIGINATING DEPARTMENT:** Development Services Department

**ATTACHMENT:**

1. 1472 Neosho Drive Irrevocable Consent
  2. 1472 Neosho Drive Voluntary Annexation Application
- 

**PURPOSE:**

The purpose of this item is to gain the Council's approval of an Irrevocable Consent to Annexation for 1372 Neosho Drive.

**BACKGROUND:**

The owner of the property located at or near 1372 Neosho Drive is requesting to connect to the city water system. The property is not contiguous with the city limits and an Irrevocable Consent to Annexation is required by city ordinance. The proper paperwork has been submitted and, should the Council accept the request, will be filed with the County Recorder's Office. The connection is done at the owner's expense and the water rates will apply at 1.5 times the resident rate.

**RECOMMENDATION:**

Staff recommends that the City Council accept the Irrevocable Consent to Annexation request.

**IRREVOCABLE CONSENT TO ANNEXATION  
AND AGREEMENT RELATING THERETO**

This Irrevocable Consent to Annexation and Agreement Relating Thereto is made and entered into this 29 day of August, 2024.

WITNESSETH:

WHEREAS, EM Laughlin LLC, (hereinafter "Owner(s)") are the record Owner(s) of fee simple interest in the following described real property:

*(See Attachment A for legal description)*

WHEREAS, the above-described realty lies outside of the city limits of the City of Neosho, Missouri, (hereinafter the "City"); and

WHEREAS, it is the policy of the City and the Council not to supply water or sewer to realty and persons located outside of the city limits and said policy to remain in effect in the event either or both utilities are no longer owned or operated by the City; and

WHEREAS, Owner(s) have asked the City to provide water and/or sewer service to the real property by permitting Owner(s) to connect on to the City's water and/or sewer system; and

WHEREAS, the City, is willing to deviate from the above stated policy, and is willing to allow Owner(s) to connect on to the City's water and/or sewer system conditioned on Owner(s) irrevocable agreement to consent to any future annexation by the City of the above described realty in the event the City determines such annexation would be in the best interests of the City and to authorize the City to file a Voluntary Petition for Annexation on behalf of the Owner(s) when the property becomes contiguous and compact to the then existing corporate limits of the City.

NOW THEREFORE, it is hereby agreed by and between the parties as follows:

1. The City hereby agrees to permit Owner(s) to connect to the City's water and/or sewer system and Owner(s) hereby irrevocably consent, on behalf of themselves, their successors and assigns, to any future annexation of the above-described realty by the City irrespective of who initiated the annexation process. If in the event the Owner(s) connect to the City's water system at a time when City sewer service is unavailable, the Owner(s) agrees to connect to City

sewer services at the Owner's expense whenever City sewer services come within the footage regulations as defined in the Water and Sewer Extension Plan.

2. The City shall charge, and Owner(s) shall pay, such fees as the City determines necessary, appropriate or reasonable for all water and/or sewer service supplied Owner(s).

3. At such time the City declares that annexation of hereinbefore described realty is in the best interests of the City and that such property is contiguous and compact to the then existing corporate limits of the City, then the Owner(s) hereby grant exclusive authority to the City to present the attached Voluntary Petition for Annexation, as executed by the Owner(s) as of the date of this Irrevocable Consent, to the Council as provided by Section 71.012 RSMo.

4. Alternatively, in the event the City initiates an annexation proceeding in the court system of this state which ultimately requires voter approval, and in the further event such annexation proceeding involves the above-described realty; Owner(s), their successors and/or assigns hereby agree to permit and consent to said annexation and furthermore to cooperate fully with the City and the Council in the annexation process, and Owner(s), their successors and/or assigns agree they will in no way object to or do anything which would impede the annexation process.

5. In the event Owner(s), their successors and/or assigns, or anyone acting by, through to on behalf of any of them, shall fail to cooperate fully with the City and the City Council in any future annexation proceeding, irrespective of the form of that proceeding, or should Owner(s), their successors and/or assigns object to or do anything which would impede any such annexation proceeding, then the City may thereafter, without notice, terminate water and/or sewer service to the above-described realty and disconnect said property from the City's water and/or sewer system and Owner(s) shall be liable to the City for any costs for installation, termination, and or legal expenses incurred for the utility services provided and or terminated and for legal costs to enforce this Irrevocable Consent.

6. This Agreement, including the Irrevocable Consent to Annexation contained herein, and the Voluntary Petition for Annexation shall be enforceable by

specific performance, at the option of the City, and, if litigation is initiated, the parties agree that venue shall be proper only in the Circuit Court of Newton County, Missouri, and all parties expressly waive any rights to venue inconsistent therewith and that Owner(s) their heirs, legal representatives, successors and assigns shall pay any legal expenses incurred by the City to enforce this Agreement.

7. This Agreement, the Irrevocable Consent to Annexation, and the Voluntary Petition for Annexation contained herein shall remain in full force and effect so long as Owner(s) continue to receive water and/or sewer service from the City and/or are connected to the City's water and/or sewer system.

8. This agreement, the Irrevocable Consent to Annexation contained herein shall be deemed to be a covenant running with the land and shall be binding upon Owner(s), their heirs, legal representatives, successors and assigns.

OWNER SIGNATURE:  DATE: 8/29/24  
CO-OWNER SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
OWNER NAME (print): EM Loughlin Abraham Loughlin  
CO-OWNER NAME (print): \_\_\_\_\_



## Planning and Zoning Department

City Hall 203 E. Main Neosho, MO 64850 Phone 451-8050

# AFFIDAVIT FOR A CORPORATION

Abraham Laughlin  
President

EM Laughlin LLC  
Corporation

STATE OF MISSOURI     )  
                                      ) ss.  
COUNTY OF NEWTON    )

On this 30<sup>th</sup> day of Aug, 2024, before me personally appeared Abraham Laughlin, to me personally known, who being duly sworn, did declare that he/she is President of EM Laughlin LLC, that the seal was affixed to this instrument on behalf of said corporation by authority of its Board of Directors and the said Abraham Laughlin acknowledged said instrument to be the free act and deed of said corporation and that the statements therein contained are all true.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in Neosho MO - Newton Co. MO, the day and year first above written.

Nancy Tomlinson  
Notary Public

My commission expires:





Recorded in Newton County, Missouri

Recording Date/Time: 03/01/2023 at 03:27:25 PM

Book: 372 Page: 1197

Instr #: 202301218

Type: WD

Pages: 3

Fee: \$30.00 S



Electronically Recorded

Jennifer A. Childers  
Recorder of Deeds

Form reviewed and approved by:  
Kendall R. McPhail  
Attorney at Law  
2838 S. Ingram Mill Rd  
Springfield, MO 65804  
Missouri Bar No: 31363

WACO Title Company Springfield  
File No. 2300047-138

## Corporation Warranty Deed

**THIS DEED**, Made and entered into this 1st day of March, 2023, by and between **HARTLAND MOTORS, INC., A MISSOURI CORPORATION**, duly organized under the laws of the State of Missouri, as Grantor, and **EM LAUGHLIN LLC, A MISSOURI LIMITED LIABILITY COMPANY**, as Grantee, whose mailing address is:

27984 Masada Ln. Stark City, MO 64866

WITNESSETH, that the Grantor, in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby grant, bargain, sell, convey and confirm unto Grantee, Grantee's heirs and assigns, the following described lots, tracts and parcels of land situated in the County of **NEWTON** and State of **Missouri**, to wit:

**SEE ATTACHED EXHIBIT "A"**

TO HAVE AND TO HOLD the same, together with all rights and appurtenances to the same belonging, unto the said Grantee and unto Grantee's heirs and assigns forever; the Grantor hereby covenanting that Grantor is lawfully seized of an indefeasible estate in fee of the premises herein conveyed; that Grantor has good right to convey the same; that the said premises are free and clear from any encumbrance done or suffered by Grantor or those under whom Grantor claims, except as stated above and except for all taxes and assessments, general and special, not now due and payable, and that Grantor will warrant and defend the title to the said premises unto Grantee and unto Grantee's heirs and assigns forever, against the lawful claims and demands of all persons whomsoever. If two or more persons constitute the Grantee, the word "Grantee" will be construed to read "Grantees" whenever the

sense of this Deed requires.

IN WITNESS WHEREOF, The Grantor has caused these presents to be signed by its President on the day and year above written.

**HARTLAND MOTORS, INC.,  
A MISSOURI CORPORATION**



**BY: STEVEN HART, PRESIDENT**

STATE OF MISSOURI

)

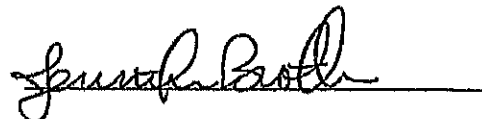
) ss

COUNTY OF NEWTON

)

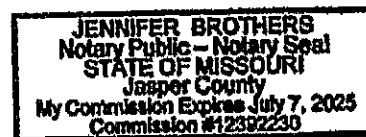
On this 1st day of March, 2023, before me, personally appeared STEVEN HART, to me known, who being by me duly sworn, did say that he is the President of HARTLAND MOTORS, INC., a corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and said HARTLAND MOTORS, INC., A MISSOURI CORPORATION acknowledged and executed the same for the purposes therein stated and as the free act and deed of said corporation.

Witness my hand and Notarial Seal subscribed and affixed in said County and State, the day and year in this certificate above written.



Notary Public - Jennifer Brothers

My Term Expires: July 7, 2025



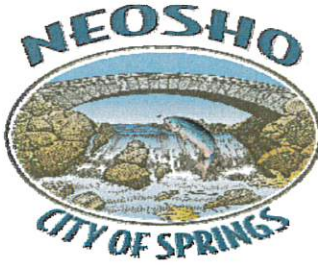
## **Exhibit "A"**

Part of the South Half of the West Half of the Northwest Quarter of Section 18, Township 25 North, Range 31 West, Newton County, Missouri, described as beginning at an iron pin in the East right-of-way line of U.S. Highway 60, said pin being situated 885.2 feet West and 18 feet North of the Southeast corner of the West Half of the Northwest Quarter of Section 18; thence East parallel to and 18 feet North of the South line of said West Half of the Northwest Quarter a distance of 215.9 feet to an iron pin; thence at an angle of 79 degrees 30 minutes left a distance of 147 feet to an iron pin; thence at an angle of 4 degrees 24 minutes left a distance of 98 feet to an iron pin; thence at an angle of 15 degrees 50 minutes left a distance of 97.5 feet to an iron pin; thence at an angle of 86 degrees 37 minutes left a distance of 194.8 feet to an iron pin situated 4 feet West of the center of two drilled wells (the last described line runs through the center line between the 2 drilled wells leaving 1 well on this property & one on the adjacent property) thence at an angle of 66 degrees 40 minutes left a distance of 65 feet to an iron pin; thence at an angle of 25 degrees 36 minutes right a distance of 40 feet to an iron pin in the East right-of-way line of U.S. Highway 60; thence at an angle of 43 degrees 24 minutes left along the East right of way line of Highway 60 a distance 224.3 feet to the point of beginning and;

- 

- As shown on Survey prepared by Area Land Surveying, LLC License # PLS-20050084 as Job # 230202 and dated February 22, 2023

Subject to easements, restrictions, reservations, and covenants of record, if any.



## Planning and Zoning Department

City Hall 203 E. Main Neosho, MO 64850 Phone 451-8050

# ANNEXATION APPLICATION

### LEGAL OWNER(s):

NAME(S): E M Laughlin LLC

STREET ADDRESS OWNER(s): 27984 Masada Lane

CITY, STATE, ZIP CODE: Stark City MO 64866

MAILING ADDRESS: Same as above

PHONE: 417-592-9982

OWNER(s) REPRESENTATIVE (if applicable): Name, Address, Phone: \_\_\_\_\_

Abraham Laughlin 27984 Masada Lane Stark City MO 64866 417-592-9982

### PROPERTY INFORMATION:

LOCATION (ADDRESS) OF PROPERTY: 1472 Neosho Drive

ARE ANY RESIDENCES LOCATED ON PROPERTY: yes

NAME, ADDRESS, CABLE CO., CELL PHONE PROVIDER & TAX ID NO. FOR

**BUSINESS(ES)** ON PROPERTY: \_\_\_\_\_

REQUESTED ZONING: \_\_\_\_\_

ELECTRIC PROVIDER: Liberty

NATURAL GAS PROVIDER: Spire

TELEPHONE PROVIDER (LANDLINE): \_\_\_\_\_

### REQUIRED ENCLOSURES:

1. Voluntary Petition For Annexation
2. Copy of Deed
3. Parcel Map
4. Annexation fee of \$100 + Publication Cost

**To the best of my knowledge and belief, data in this application and all attachments are true and correct.**

OWNER SIGNATURE: \_\_\_\_\_

DATE: 8/30/2024

OWNER NAME (print): Abraham Laughlin

CO-OWNER SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

CO-OWNER NAME (print): \_\_\_\_\_

### Staff Use Only

Application Accepted. By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

☐ Parcel Map Received

☐ Application Fee Received

☐ Deed Received

☐ Publication Fee Received



## Planning and Zoning Department

City Hall 203 E. Main Neosho, MO 64850 Phone 451-8050

# VOLUNTARY PETITION FOR ANNEXATION TO THE CITY OF NEOSHO

We, the undersigned, hereinafter referred to as the Petitioners, for our petition to the City Council of the City of Neosho state and allege as follows:

- That we are the owner of all fee interests of record in the real estate in Newton County, Missouri, described as follows, to wit:

*(LEGAL DESCRIPTION ATTACHED)*

- That the said real estate is not now a part of any incorporated municipality.
- That the said real estate is contiguous to the existing corporate limits of the City of Neosho, Missouri.
- That we request that the said real estate be annexed to, and included within the corporate limits of, the City of Neosho, Missouri, as authorized by the provisions of Section 71.012, RSMo.
- That we request the City Council of the City of Neosho to cause the required notice to be published and to conduct the public hearing required by law and thereafter adopt an ordinance extending the limits of the City of Neosho to include the above described real estate.

Dated this 30<sup>th</sup> day of August, 2024.

OWNER SIGNATURE: \_\_\_\_\_

DATE: 8/30/2024

OWNER NAME (print): Abraham Laughlin

CO-OWNER SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

CO-OWNER NAME (print): \_\_\_\_\_

CO-OWNER SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

CO-OWNER NAME (print): \_\_\_\_\_

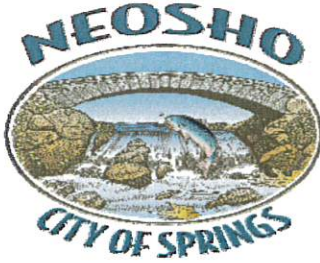
### Staff Use Only

Received By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_





## Planning and Zoning Department

City Hall 203 E. Main Neosho, MO 64850 Phone 451-8050

# AFFIDAVIT FOR A CORPORATION

Abraham Laughlin  
President

E.M. Laughlin LLC  
Corporation

STATE OF MISSOURI     )  
                                          ) ss.  
COUNTY OF NEWTON    )

On this 30<sup>th</sup> day of August, 2024, before me personally appeared Abraham Laughlin, to me personally known, who being duly sworn, did declare that he/she is President of E.M. Laughlin LLC, that the seal was affixed to this instrument on behalf of said corporation by authority of its Board of Directors and the said Abraham Laughlin acknowledged said instrument to be the free act and deed of said corporation and that the statements therein contained are all true.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in Neosho MO - Newton Co MO, the day and year first above written.

Nancy Tomlinson  
Notary Public

My commission expires:



sense of this Deed requires.

IN WITNESS WHEREOF, The Grantor has caused these presents to be signed by its President on the day and year above written.

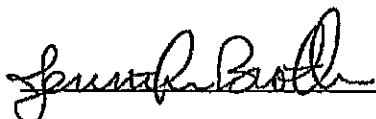
**HARTLAND MOTORS, INC.,  
A MISSOURI CORPORATION**

  
BY: STEVEN HART, PRESIDENT

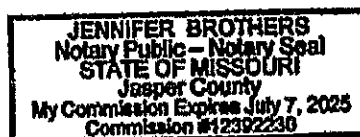
STATE OF MISSOURI                    )  
                                              )  
COUNTY OF NEWTON                )    ss

On this 1st day of March, 2023, before me, personally appeared STEVEN HART, to me known, who being by me duly sworn, did say that he is the President of HARTLAND MOTORS, INC., a corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and said HARTLAND MOTORS, INC., A MISSOURI CORPORATION acknowledged and executed the same for the purposes therein stated and as the free act and deed of said corporation.

Witness my hand and Notarial Seal subscribed and affixed in said County and State, the day and year in this certificate above written.

  
Notary Public - Jennifer Brothers

My Term Expires: July 7, 2025



## **Exhibit "A"**

Part of the South Half of the West Half of the Northwest Quarter of Section 18, Township 25 North, Range 31 West, Newton County, Missouri, described as beginning at an iron pin in the East right-of-way line of U.S. Highway 60, said pin being situated 885.2 feet West and 18 feet North of the Southeast corner of the West Half of the Northwest Quarter of Section 18; thence East parallel to and 18 feet North of the South line of said West Half of the Northwest Quarter a distance of 215.9 feet to an iron pin; thence at an angle of 79 degrees 30 minutes left a distance of 147 feet to an iron pin; thence at an angle of 4 degrees 24 minutes left a distance of 98 feet to an iron pin; thence at an angle of 15 degrees 50 minutes left a distance of 97.5 feet to an iron pin; thence at an angle of 86 degrees 37 minutes left a distance of 194.8 feet to an iron pin situated 4 feet West of the center of two drilled wells (the last described line runs through the center line between the 2 drilled wells leaving 1 well on this property & one on the adjacent property) thence at an angle of 66 degrees 40 minutes left a distance of 65 feet to an iron pin; thence at an angle of 25 degrees 36 minutes right a distance of 40 feet to an iron pin in the East right-of-way line of U.S. Highway 60; thence at an angle of 43 degrees 24 minutes left along the East right of way line of Highway 60 a distance 224.3 feet to the point of beginning and;

- 

- As shown on Survey prepared by Area Land Surveying, LLC License # PLS-20050084 as Job # 230202 and dated February 22, 2023

Subject to easements, restrictions, reservations, and covenants of record, if any.



---

**REQUESTED COUNCIL MEETING DATE:** September 3, 2024

**ITEM:** Shoal Creek Wastewater Treatment Plant Evaluation

---

**ORIGINATING DEPARTMENT:** City Clerk

**ATTACHMENT:**

1. Shoal Creek WWTP High, Med. & Low Priority Project Cost Estimate (Shoal & Crowder Improvements)
  2. Shoal Creek WWTP High, Med. & Low Priority Project Cost Estimate (Shoal Creek Improvements)
  3. Neosho SC WWTP Evaluation (Revised 8-5-24)
  4. Neosho SC WWTP Evaluation (Sealed 7-23-24)
- 

**PURPOSE:**

Present the engineering report from Allgeier, Martin and Associates, INC. (AMA) regarding our wastewater system.

**BACKGROUND:**

The City of Neosho contracted in 2022 to develop and an engineering maintenance plan for our wastewater facilities and equipment. The report is complete and ready to be discussed with the Council. AMA associates will be present to present the report and answer any questions the Council may have.

**RECOMMENDATION:**

**Shoal Creek WWTP High, Medium & Low Priority Improvement Project Cost Estimate  
(Existing Shoal Creek Facilities and Improvements to Treat Crowder Flow)**

| <b>Improvement</b>                                                             | <b>Priority</b> | <b>Construction Cost</b> |
|--------------------------------------------------------------------------------|-----------------|--------------------------|
| Raw Sewage Pumping Structure Renovation (Existing Shoal Creek)                 | High            | \$ 645,000.00            |
| Oxidation Ditch Retrievable Diffuser Installation (Existing Shoal Creek)       | High            | \$ 2,715,000.00          |
| Clarifier Center Feed Equipment Installation (Existing Shoal Creek)            | High            | \$ 1,050,000.00          |
| RAS/WAS Pump Station Renovation (Existing Shoal Creek)                         | High            | \$ 1,010,000.00          |
| Backup Generator ATS Installation (Existing Shoal Creek)                       | High            | \$ 50,000.00             |
| Crowder Lift Station Renovation                                                | High            | \$ 1,092,000.00          |
| Crowder Pressure Sewer Line Reroute                                            | High            | \$ 77,000.00             |
| Grit Removal Facility Construction and Splitter Box Improvements               | High            | \$ 1,093,450.00          |
| Concentric Basin Extended Aeration System Construction - Phase I               | High            | \$ 7,162,080.00          |
| Additional Sludge Storage Construction                                         | High            | \$ 928,550.00            |
| UV Disinfection Structure Construction                                         | High            | \$ 1,631,625.00          |
| Control Building Construction & Generator Installation                         | High            | \$ 560,000.00            |
| Miscellaneous Improvements to Crowder WWTP                                     | High            | \$ 614,000.00            |
| Centrifuge Sludge Handling Facility Construction                               | Medium          | \$ 2,275,000.00          |
| Inlet Structure Slide Gates and Bar Screens Replacement (Existing Shoal Creek) | Medium          | \$ 55,000.00             |
| Concentric Basin Extended Aeration System Construction - Phase II              | Low             | \$ 7,136,900.00          |
| Tertiary Filter Construction                                                   | Low             | \$ 4,854,520.00          |
| Oxidation Ditch Drain Improvements (Existing Shoal Creek)                      | Low             | \$ 154,000.00            |
| Sludge Storage Aerator and Decant Valving Replacement (Existing Shoal Creek)   | Low             | \$ 445,000.00            |
| Peak Flow Pump Control Improvements (Existing Shoal Creek)                     | Low             | \$ 150,000.00            |
| <b>Construction Cost Subtotal</b>                                              |                 | <b>\$ 33,699,125.00</b>  |
| Contingency (10%)                                                              |                 | \$ 3,369,913.00          |
| Engineering - Facility Plan Revisions for SRF Program                          |                 | \$ 25,000.00             |
| Engineering - Rate Study Update                                                |                 | \$ 20,000.00             |
| Engineering - Survey                                                           |                 | \$ 40,000.00             |
| Engineering - Design                                                           |                 | \$ 2,095,000.00          |
| Engineering - Bidding                                                          |                 | \$ 20,000.00             |
| Engineering - Construction                                                     |                 | \$ 836,000.00            |
| Engineering - Resident Project Representation*                                 |                 | \$ 565,000.00            |
| Engineering - Start-Up Services                                                |                 | \$ 45,000.00             |
| Engineering - Follow-Up Services                                               |                 | \$ 40,000.00             |
| Engineering - O&M Manual Update                                                |                 | \$ 75,000.00             |
| Geotechnical Investigation                                                     |                 | \$ 35,000.00             |
| Legal, Abstract, Title Work                                                    |                 | \$ 20,000.00             |
| Loan Fee (5%)                                                                  |                 | \$ 2,044,252.00          |
| <b>Total Project Cost</b>                                                      |                 | <b>\$ 42,929,290.00</b>  |

\*Full Time Resident Project Representation (Up to 480 Days)

**Shoal Creek WWTP High, Medium & Low Priority Improvement Project Cost Estimate  
(Existing Shoal Creek Facilities)**

| <b>Improvement</b>                                      | <b>Priority</b> | <b>Construction Cost</b> |
|---------------------------------------------------------|-----------------|--------------------------|
| Raw Sewage Pumping Structure Renovation                 | High            | \$ 565,000.00            |
| Oxidation Ditch Retrievable Diffuser Installation       | High            | \$ 2,715,000.00          |
| Clarifier Center Feed Equipment Installation            | High            | \$ 1,050,000.00          |
| RAS/WAS Pump Station Renovation                         | High            | \$ 1,010,000.00          |
| Backup Generator ATS Installation                       | High            | \$ 50,000.00             |
| Crowder Lift Station Renovation                         | Medium          | \$ 1,092,000.00          |
| Inlet Structure Slide Gates and Bar Screens Replacement | Medium          | \$ 55,000.00             |
| Peak Flow Pump Control Improvements                     | Low             | \$ 150,000.00            |
| Grit Removal Facilities Construction                    | Low             | \$ 922,910.00            |
| Oxidation Ditch Drain Improvements                      | Low             | \$ 154,000.00            |
| Sludge Storage Aerator and Decant Valving Replacement   | Low             | \$ 445,000.00            |
| Centrifuge Sludge Handling Facility Construction        | Low             | \$ 2,075,000.00          |
| Tertiary Filter Construction                            | Low             | \$ 4,120,520.00          |
| UV Disinfection Equipment Replacement                   | Low             | \$ 600,000.00            |
| <b>Construction Cost Subtotal</b>                       |                 | <b>\$ 15,004,430.00</b>  |
| Contingency (10%)                                       |                 | \$ 1,500,443.00          |
| Engineering - Facility Plan Revisions for SRF Program   |                 | \$ 25,000.00             |
| Engineering - Rate Study Update                         |                 | \$ 20,000.00             |
| Engineering - Survey                                    |                 | \$ 30,000.00             |
| Engineering - Design                                    |                 | \$ 1,050,500.00          |
| Engineering - Bidding                                   |                 | \$ 20,000.00             |
| Engineering - Construction                              |                 | \$ 420,000.00            |
| Engineering - Resident Project Representation*          |                 | \$ 435,000.00            |
| Engineering - Start-Up Services                         |                 | \$ 35,000.00             |
| Engineering - Follow-Up Services                        |                 | \$ 30,000.00             |
| Engineering - O&M Manual Update                         |                 | \$ 45,000.00             |
| Geotechnical Investigation                              |                 | \$ 20,000.00             |
| Legal, Abstract, Title Work                             |                 | \$ 20,000.00             |
| Loan Fee (5%)                                           |                 | \$ 932,800.00            |
| <b>Total Project Cost</b>                               |                 | <b>\$ 19,588,173.00</b>  |

\*Full Time Resident Project Representation (Up to 370 Days)

# ENGINEERING REPORT: SHOAL CREEK WASTEWATER TREATMENT PLANT EVALAUTION

Prepared for:

Neosho, Missouri

Revised August 2024



Prepared by



**ALLGEIER, MARTIN and ASSOCIATES, INC.**

**Consulting Engineers • Hydrologists • Surveyors**

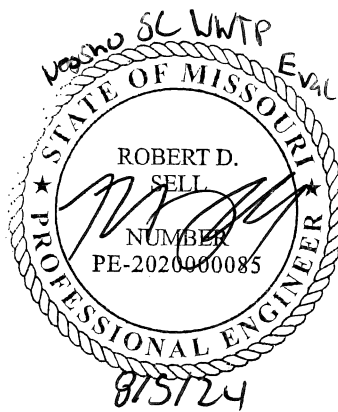
**Joplin, MO • Rolla, MO • Springfield, MO • Kansas City, MO • Tulsa, OK • Bentonville, AR**

# ENGINEERING REPORT: SHOAL CREEK WASTEWATER TREATMENT PLANT EVALAUTION

Prepared for:

**Neosho, Missouri**

Revised August 2024



Prepared by



**ALLGEIER, MARTIN and ASSOCIATES, INC.**

**Consulting Engineers • Hydrologists • Surveyors**

**Joplin, MO • Rolla, MO • Springfield, MO • Kansas City, MO • Tulsa, OK • Bentonville, AR**

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## **APPENDICES**

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## 1.0 EXECUTIVE SUMMARY

The City of Neosho is a community of approximately 12,590 people. The City operates two wastewater treatment plants (WWTPs) under Missouri State Operating Permit Number MO-0104906. The main facility is the Shoal Creek WWTP which discharges into Shoal Creek and is the focus of this evaluation. The second facility is the Crowder WWTF which pumps effluent to the Shoal Creek Plant to combine with the Shoal Creek Plant's effluent and then pass through the UV structure for disinfection before discharging to Shoal Creek. The most recent major improvements to the Shoal Creek Plant occurred in the late-2000s with much of the facility being original from the 1980's. Consequently, much of the equipment at the Shoal Creek Plant is older and nearing the end of its useful life.

In order to not only address the immediate needs of the Shoal Creek Plant but also assess its future needs, an evaluation of the facilities was undertaken. The needs of the Shoal Creek Plant were evaluated based on two different scenarios. The first is where the Shoal Creek Plant and the Crowder Plant remain separate as they are now. As such, improvements to the Shoal Creek Plant would only consider conditions representative of the Plant treating the same portion of the City's flow as it does now with Crowder treating the rest. The second scenario considers the Shoal Creek Plant treating wastewater from Crowder and the Crowder Plant being taken out of service. For each scenario, various improvements were evaluated and categorized as either high, medium, or low priority. The priority of an improvement is based on its importance for ensuring adequate treatment capacity as well as proper operation of the Shoal Creek Plant for the future.

Considering keeping the two plants separate, the existing treatment facilities at the Shoal Creek WWTP require various improvements to allow for continued reliable and effective operation. While some components do not have adequate capacity for current or future design conditions, such as the pumping capacity of the raw sewage pumps or the oxygen supply capacity of the rotors, the main issue with the existing facilities is simply their age. Nearly all equipment has greatly surpassed the end of its useful life. As such, constant maintenance and repair of the system is required, beyond what should be expected for a properly functioning system.

To address these issues at the Shoal Creek Plant, it is recommended that the improvements identified as being a high priority be pursued at a minimum. This will allow for improved operation and decreased maintenance for the facilities and allow them to meet projected demands for the foreseeable future. Table 9-1 provides a total project cost estimate for these improvements. The construction cost is estimated to be \$5,390,000 with the total project cost, considering additional costs such as engineering, estimated to be \$7,269,885.

The existing facilities at the Crowder WWTP are also in need of improvements, though a detailed evaluation of these facilities was outside the scope of this report. Considering the age and general condition of the plant, based on observations and discussions with plant personnel, it is likely that the necessary improvements will be just as extensive and costly, if not more so, than what would be involved in constructing new facilities at the Shoal Creek Plant. For this reason, it is thought that funds for such improvements would be better spent to consolidate the City's treatment facilities into a single plant. This would require that additional facilities be constructed at the Shoal Creek Plant. Not only would this reduce overall operation and maintenance for the treatment facilities, but it would also provide the City with brand-new and up-to-date facilities instead of trying to retrofit new equipment into an existing system of a dated design.

Should the City wish to consolidate treatment facilities, further improvements will be required in addition to those recommended for the Shoal Creek Plant alone. Mainly, this includes the construction of an additional treatment train to allow for increased treatment capacity along with various other improvements. Table 9-2 provides a cost estimate for all improvements necessary for the Crowder Plant to be taken offline and the Shoal Creek Plant to treat all wastewater for the City of Neosho. For these improvements, the estimated construction cost is \$17,536,705 with the total project cost being estimated at \$24,138,005.

Finally, the City of Neosho will be required to comply with 10 CSR 20-7.015 Effluent Regulations by January 1, 2033. This will require that phosphorus levels from plant effluent be consistently below 1.0 mg/L. In order to have adequate data available for determining the necessary improvements needed to achieve compliance, it is recommended that the City continue to sample phosphorus effluent levels and start sampling influent phosphorus levels.

## 2.0 INTRODUCTION

### 2.1 Background

The City of Neosho operates a sewage collection system and two mechanical wastewater treatment plants under the Missouri State Operating Permit No. MO-0104906, a copy of which is included in Appendix A of this report. The permit establishes limits for the discharge of treated wastewater and disposal of sludge from the City's treatment facilities. The last evaluation of the wastewater collection and treatment facilities was conducted in 2007, with the last improvements implemented at the Shoal Creek Plant dating back to 2009.

The continuing authority for the wastewater treatment facilities is the City of Neosho. City Hall is located at 203 East Main Street, Neosho, MO 64850, and can be reached at 417-451-8050. Alliance Water Resources is contracted by the City to operate the City's water and wastewater systems, including the treatment facilities. For the Shoal Creek Plant, Jerry Humphrey is the certified operator (certification number 10405) and contact person. The phone number for the Shoal Creek Plant is 417-451-8075.

### 2.2 Scope

The following report is intended to provide the City of Neosho with recommendations for their Shoal Creek Wastewater Treatment Plant to meet the City's wastewater needs for the next twenty years. As a part of this plan, data was compiled to establish design conditions for the City's wastewater treatment plant in the year 2043. Population growth projections were utilized in conjunction with data relative to existing wastewater flows and loads to establish design criteria. A limited infiltration/inflow analysis is presented to evaluate the adequacy of existing and proposed facilities to handle wet weather flows. It should be noted that, since the focus of this study is on Shoal Creek WWTP, the evaluation does not include the facilities at the Crowder WWTP. Aspects of the Crowder Plant discussed in this report are done only as needed in order to evaluate their impact on the Shoal Creek Plant.

Plans are presented to improve the Shoal Creek Plant to meet future demands, and cost estimates are provided for the described work. Finally, funding options are reviewed to provide the City with information relative to the financial impact of the expansion project on system users.

### 3.0 GENERAL INFORMATION

#### 3.1 Location

The City of Neosho is located in Newton County, Missouri, serving as the county seat. Neosho is located approximately 11 miles east of Seneca and approximately 20 miles south of Joplin.

#### 3.2 Population

At the time of the 2010 census, the City's population was 11,835; the population in 2020 was 12,590. Neosho is comprised of mainly residential dwellings and commercial establishments, with only a few industrial users.

#### 3.3 Economics

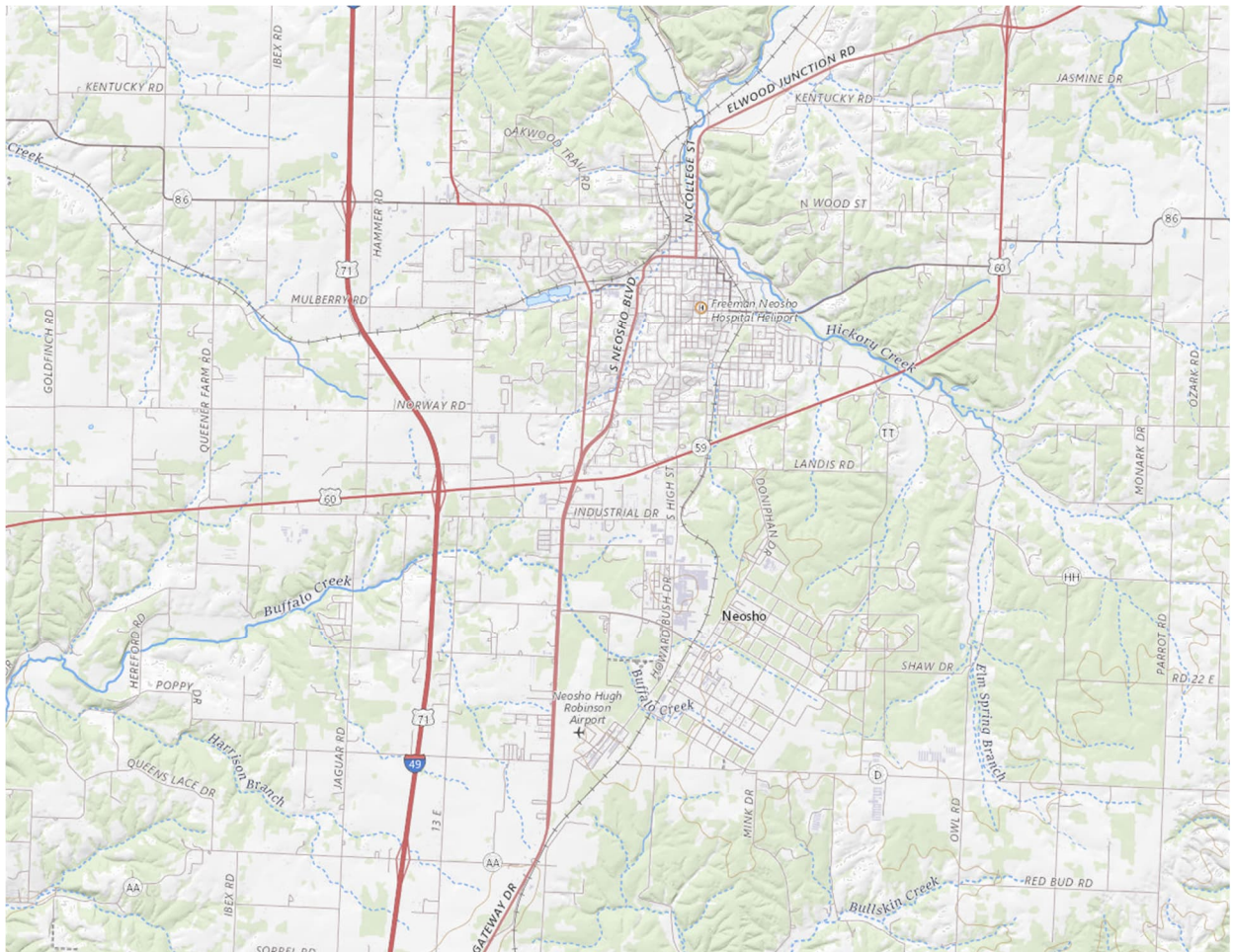
In 2010, the median household income was approximately \$32,488, based on the census data current at the time. Considering 2020 census data, the current median household income is approximately \$43,925. The low-income and moderate-income percentage (LMI) is 47.46%, based on data for 2015.

#### 3.4 Environmental

##### 3.4.1 *Topography and Geology*

The City of Neosho's Shoal Creek WWTP is located in Section 13, Township 25 N, Range 32 W in Newton County, Missouri, and Outfall #001 into Shoal Creek is located north of the facility in Section 12, Township 25 N, Range 32 W. Neosho is located within the Ozark Plateaus, which are major structural features of the area. As can be seen in the topographic map shown in Figure 3-1, the City lies in a valley between gently rolling hills and ridges with Shoal Creek flowing north towards Joplin from the north end of the City. Hickory Creek runs along the east end of the City. The elevation varies from approximately 980 ft near Outfall #001 to Shoal Creek, located towards the north end of the City, to about 1290 ft near Crowder College at the south end of the City.

**Figure 3-1. Map of Neosho, Missouri Area**



### 3.4.2 Climate

The average annual precipitation for the area around Neosho is approximately 51.70 inches. The monthly precipitation averages for the area are given as follows:

**Table 3-1. Precipitation Data**

| Month    | Precipitation (in.) | Month     | Precipitation (in.) |
|----------|---------------------|-----------|---------------------|
| January  | 4.13                | July      | 5.11                |
| February | 3.44                | August    | 2.85                |
| March    | 5.89                | September | 2.25                |
| April    | 4.57                | October   | 5.88                |
| May      | 9.98                | November  | 3.11                |
| June     | 3.29                | December  | 2.08                |

Source: <https://www.weather.gov/>. 2000-2022 Average Precipitation.

The majority of the precipitation occurs during the spring, summer, and fall months, with the winter months being relatively dry. The spring, summer, and fall precipitation usually comes in the form of showers or thunderstorms. Most of the winter precipitation is rain, freezing rain, or short-lived snow cover rarely lasting more than a few days.

The temperature is relatively mild in the area, however sudden temperature changes are common. Generally, winters are cold, and summers are hot, however prolonged periods of either extreme are rare. Periods of cool, dry weather occur during the predominantly hot, humid summers, and periods of mild, above-freezing temperatures occur during the cold, dry winters. The average winter temperature will not typically fall below zero, however when it does occur, it is usually on only one or two days per year. The first freeze at the average elevations in the planning area normally occurs in the last week of October, while the last freeze normally occurs in the middle of April.

### 3.4.3 Receiving Stream

The combined effluent from the Shoal Creek and Crowder wastewater treatment facilities flows from the outfall structure, discharging into Shoal Creek, as shown in Figure 3-3. Shoal Creek is listed on the 303(d) list for E. Coli and zinc and is a Class "P" stream, which indicates that it is a stream that maintains permanent pools that support aquatic life.

### 3.5 Wastewater Facilities

The City of Neosho operates and maintains a wastewater collection system and two mechanical treatment plants. As indicated previously, the scope of this report is the evaluation of the Shoal Creek WWTP and excludes evaluations of the Crowder WWTP and the overall collection system beyond their immediate impacts on the Shoal Creek Plant, though general information pertaining to these facilities is provided in this section.

#### 3.5.1 *Wastewater Collection System*

The existing public collection system consists of approximately 348,580 lineal feet of gravity sewer and 42,320 lineal feet of pressure sewer.

#### 3.5.2 *Crowder Wastewater Treatment Plant*

The Crowder WWTP was previously permitted independently from the Shoal Creek WWTP under permit number MO-0039926. This facility consists of two flow equalization basins, a bar screen, two pre-aeration basins, two primary clarifiers, three trickling filters, a recirculation basin, three secondary clarifiers, chlorine disinfection, a chlorine contact basin, dechlorination, two primary aerobic sludge digesters, and a sludge drying bed.

The facility is designed to treat 3 MGD and the sludge produced in treatment is hauled off and land applied. The design sludge production of the facility is approximately 812 dry tons/year per the current operating permit. The Crowder WWTP discharges to the ultraviolet disinfection system located at the Shoal Creek WWTP via a lift station located at the tail end of the Crowder Plant. Combined effluent is then discharged into Shoal Creek.

While this report does not include an evaluation of the Crowder Plant, considerations must be given as to the facility's impact on the Shoal Creek Plant for both current and future conditions. As such, an observational site visit of the Crowder Plant was conducted to discuss the operations and needs of the facility in general terms. Based on this visit, it appears that significant improvements to the existing facilities are needed to allow the plant to continue to function properly into the foreseeable future. The facilities needed to convey wastewater from Crowder to the Shoal Creek Plant already exist. As such, it likely makes more sense from an economic and operational standpoint to consider treating flows from the Crowder Plant in improvement alternatives to the Shoal Creek Plant rather than pursuing major improvements to the Crowder Plant. Figure 3-2 provides a layout of the Crowder Wastewater Treatment Plant.



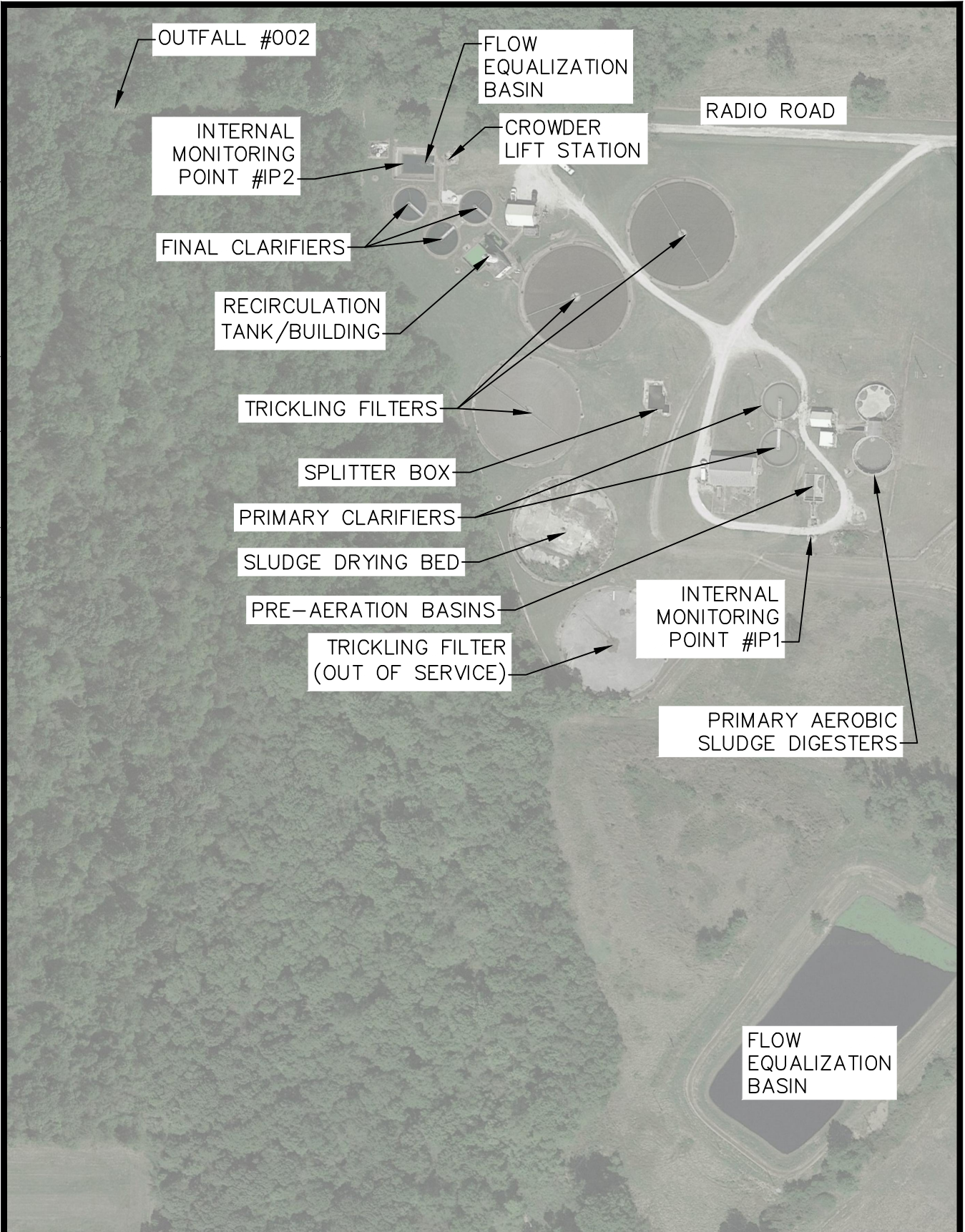


FIGURE 3-2. CROWDER WWTP EXISTING FACILITIES  
SHOAL CREEK WWTP EVALUATION

NEOSHO, MISSOURI  
JULY 2024

### 3.5.3 *Shoal Creek Wastewater Treatment Plant*

Neosho's Shoal Creek Wastewater Treatment Plant is an extended aeration (oxidation ditch) mechanical plant that discharges into Shoal Creek. The facility is designed to treat an average flow of 3 MGD, though plant personnel indicate that it can handle up to 6.0 MGD. The plant has a design sludge production capacity of approximately 630 dry tons per year, according to the operating permit. Ultraviolet disinfection is provided to meet seasonal E. coli limits. The most recent major upgrades to the Neosho Shoal Creek WWTP occurred in the late-2000s with the construction of the flow equalization basin. This facility includes a flow equalization basin, a bar screen, two oxidation ditches, two secondary clarifiers, ultraviolet disinfection, an aerobic sludge digester, and sludge holding basins. Biosolids are land applied.

Figure 3-3 shows the layout of the existing facilities at the Shoal Creek Wastewater Treatment Plant.



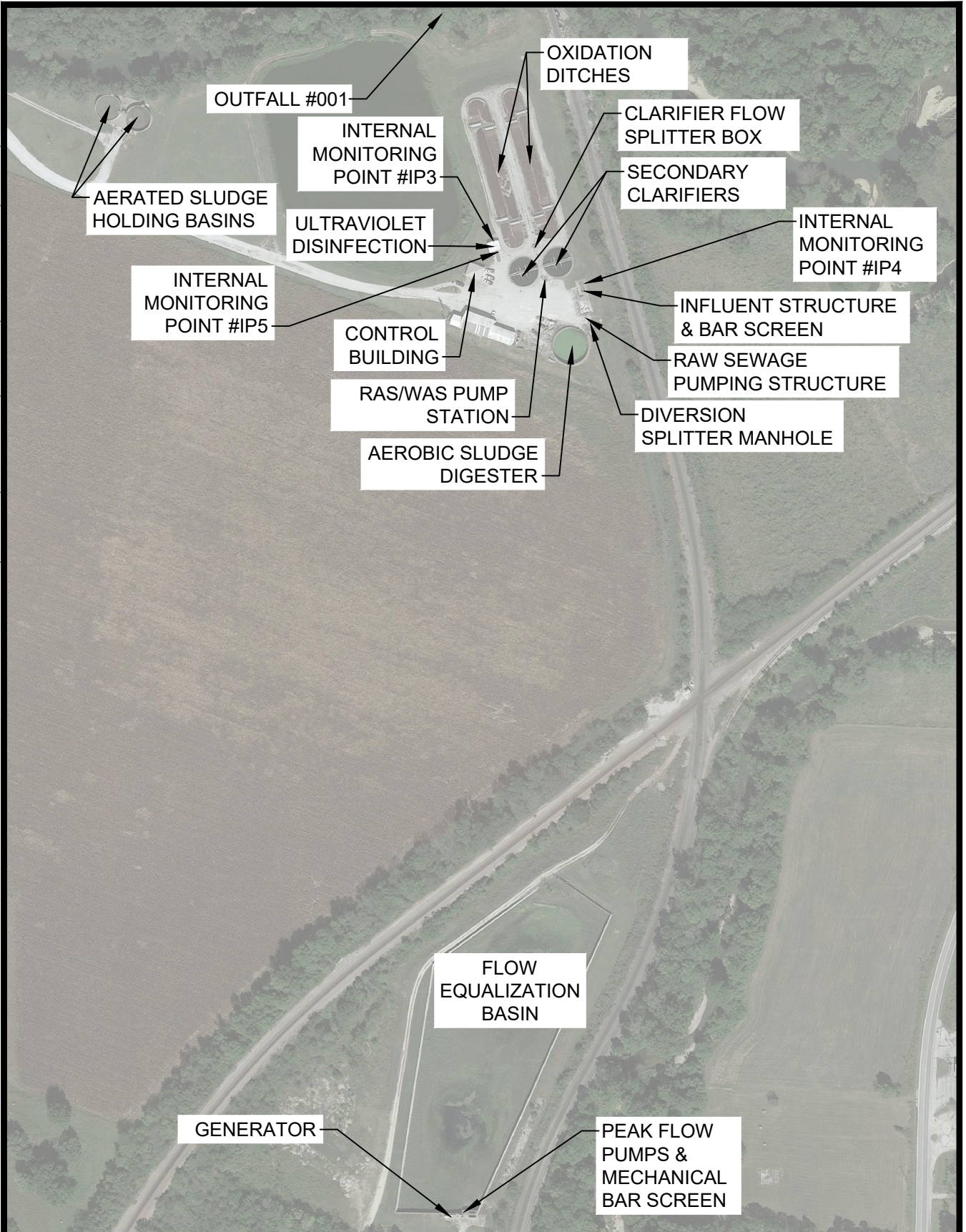


FIGURE 3-3. SHOAL CREEK WWTP EXISTING FACILITIES  
SHOAL CREEK WWTP EVALUATION

NEOSHO, MISSOURI  
JULY 2024



**ALLGEIER, MARTIN and ASSOCIATES, INC**

CONSULTING ENGINEERS and SURVEYORS  
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680 - 7200

## 4.0 INFLUENT, EFFLUENT, AND INSTREAM LIMITATIONS

### 4.1 Summary of Receiving Water Quality

Neosho's Shoal Creek Wastewater Treatment Plant discharges into Shoal Creek. Shoal Creek is a Class "P" stream, which indicates that it is a stream that maintains permanent pools that support aquatic life. Shoal Creek is a 303(d) listed stream for *E. coli* and zinc.

Missouri Water Quality Standards indicate that Shoal Creek has nine beneficial use designations, including protection of aquatic life, warm-water habitat, cool-water habitat, drinking water supply, industrial water supply, human health protection as it relates to the consumption of fish, irrigation for use on crops utilized for human or livestock consumption, livestock and wildlife protection, secondary contact recreation, and whole-body contact recreation that supports swimming.

### 4.2 Permit Requirements

As stated previously, both the Shoal Creek and Crowder wastewater treatment plants operate under the same permit given that the Crowder Plant's discharge mixes with the Shoal Creek Plant's effluent under normal conditions. The combined effluent shares a common outfall located at the Shoal Creek Plant. However, the Crowder Plant does have two other outfalls that are permitted for discharge. For this reason, five internal monitoring points are also included in the permit to act as defined locations for data collection as well as to function as points with effluent limitations and monitoring requirements of their own. The following sections discuss these requirements in greater detail for each of the locations outlined in the permit. The current operating permit expired as of April 30, 2022.

#### 4.2.1 *Influent Monitoring Requirements*

The City's operating permit establishes influent monitoring requirements for 5-day biochemical oxygen demand (BOD<sub>5</sub>) and total suspended solids (TSS) requiring the monthly average concentrations to be reported in order to determine removal efficiency for these constituents at each plant. Internal Monitoring Point 1 (#IP1) is located at the influent of the Crowder WWTP, shown in Figure 3-2. Internal Monitoring Point 4 (#IP4) is located at the influent of the Shoal Creek WWTP, shown in Figure 3-3.

#### 4.2.2 *Current Effluent Limitations and Monitoring Requirements*

The City's current operating permit establishes criteria for the required quality of effluent from the wastewater treatment process, as well as procedures for disposal of the waste solids (sludge). Current effluent limits are based on an average plant design flow of 3,000,000 gallons per day (GPD) for the Crowder WWTP and 3,000,000 gallons per day (GPD) for the Shoal Creek WWTP. Each plant has at least one monitoring point that is specific to that facility with Outfall #1 being the point of discharge to Shoal Creek of the combined flow from both facilities. The location of this outfall is shown in Figure 3-3.

Outfall #002, Outfall #003, Internal Monitoring Point 2 (#IP2), and Internal Monitoring Point 3 (#IP3) are specific to the Crowder WWTF. Outfall #002 is the original point of discharge from the facility to a tributary of Buffalo Creek. While the Crowder Facility can meet the limits established for this outfall, normal operations do not see a discharge at this point as flow is sent to the Shoal Creek Plant. Outfall #003 is the discharge point to the golf course irrigation storage ponds while #IP2 represents the point of discharge from the last storage pond. City personnel have indicated that the piping that allows the Crowder Plant to send flow to the golf course storage ponds has been removed. Therefore, discharge to and from the storage ponds is not currently possible. Considering this, and that none of these three locations impact the Shoal Creek Plant in any way, these locations will not be discussed further in this evaluation.

Internal Monitoring Point 3 is the location where effluent monitoring for flow sent from the Crowder Plant to the Shoal Creek Plant occurs and serves as the primary basis for effluent limits and monitoring requirements for the Crowder Plant. Considering that effluent at this location impacts the Shoal Creek Plant, this monitoring location must be accounted for in this evaluation. Figure 3-2 shows the location of Outfall #002, Outfall #003, #IP2, and #IP3.

Finally, Internal Monitoring Point 5 (#IP5) is the point at which effluent from the Shoal Creek Plant is monitored before mixing with effluent from the Crowder Plant. Figure 3-3 shows the location of this monitoring point.

Full values and requirements for effluent limitations and monitoring for all outfalls and internal monitoring points can be found in the NDPES permit in Appendix A. Table 4-1 provides the effluent limits applicable to Outfall #001, #IP3, and #IP5 as they are pertinent to the evaluation of the Shoal Creek Plant.

**Table 4-1. Current Effluent Limitations and Monitoring Requirements**

| Location     | Effluent Parameter            | Units   | Limitations |             |              |
|--------------|-------------------------------|---------|-------------|-------------|--------------|
|              |                               |         | Daily Max   | Weekly Avg. | Monthly Avg. |
| Outfall #001 | Ammonia as N (Apr 1 - Sep 30) | mg/L    | 6.1         | -           | 1.2          |
|              | Ammonia as N (Oct 1 - Mar 31) | mg/L    | 11.9        | -           | 2.2          |
|              | E. coli (Apr 1 - Oct 31)      | #/100mL | -           | 630         | 126          |
|              | Oil & Grease                  | mg/L    | 15          | -           | 10           |
|              | Phenol                        | ug/l    | 4200.5      | -           | -            |
|              | Cadmium, Total Recoverable    | ug/l    | 0.6         | -           | 0.3          |
|              | Iron, Total Recoverable       | ug/l    | 1849.6      | -           | 702.5        |
|              | Selenium                      | ug/l    | 9.2         | -           | 3.2          |
| #IP3         | BOD <sub>5</sub>              | mg/L    | -           | 65          | 45           |
|              | Total Suspended Solids        | mg/L    | -           | 65          | 45           |
| #IP5         | BOD <sub>5</sub>              | mg/L    | -           | 45          | 30           |
|              | Total Suspended Solids        | mg/L    | -           | 45          | 30           |

#### 4.2.3 *Future Effluent Limitations and Monitoring Requirements*

Recent revisions to 10 CSR 20-7.015 Effluent Regulations, which became effective on October 30, 2023, establish phosphorus effluent limitations for applicable treatment facilities. Among the impacted facilities are those that have a design flow greater than or equal to 1 million gallons per day. Under this condition, both of Neosho's treatment plants are affected by this regulation. In general, the new regulations will require that discharged phosphorus levels are consistently below 1.0 mg/L and that the percent removal of phosphorus from influent to effluent is at least 75%. Compliance must be achieved by January 1, 2033.

Reviewing Daily Monitoring Report data from January 2020 to December 2022, effluent from Outfall #001 had an average P concentration of 1.36 mg/L with a maximum value of 1.8 mg/L and a minimum of 0.16 mg/L. While the average value is over the proposed limit of 1.0 mg/L, compliance will likely be able to be achieved without drastic modifications to the facilities, assuming the data available is an accurate depiction of typical conditions. Continuing to sample phosphorus effluent levels will be important to ensure adequate data is available for verifying discharge concentrations. Further, it is recommended that influent phosphorus sampling be conducted at both plants as well in order to determine influent phosphorus loadings. This data will be important in calculating percent removal as well as helping determine the improvements necessary for meeting effluent requirements.

Phosphorus removal can be achieved chemically or biologically. The likely first step is to adjust operations to try to achieve as much biological removal as possible. Considering it is nearly 10 years until compliance with the new regulation is required, there is time to monitor results and further adjust operations to assess how confident the City is with being able to consistently meet P effluent levels of less than 1.0 mg/L. It is recommended that this process begin in the near future. If the proposed P limit is not able to be met biologically, then an evaluation of additional improvements will need to occur.

#### 4.2.4 *Instream Monitoring Requirements*

The City's operating establishes instream monitoring requirements on a quarterly basis for both upstream of Outfall #001 (#SM1) and downstream of Outfall #001 (#SM2). The permit and monitoring requirements can be found in Appendix A.

## 5.0 WASTEWATER FLOWS AND LOADS

### 5.1 Current Conditions

#### 5.1.1 *Source*

The City of Neosho supplies all its own water from a combination of surface water (approximately 73%) and groundwater (approximately 27%). The primary sources of wastewater for the Shoal Creek WWTF are residential and commercial users, though industrial users contribute flow into the Crowder system which then passes through the UV structure. No permitted industrial users currently discharge directly to the Shoal Creek system. However, flow from the Crowder plant can be routed directly into the Shoal Creek facilities.

#### 5.1.2 *Hydraulic Loading*

A key aspect in evaluating any existing treatment facility is establishing a solid basis for existing wastewater flows. Utilizing data from monthly Discharge Monitoring Reports (DMRs) is typically the best means of acquiring accurate flow data. For this report, DMR data from January 2020 to December 2022 was compiled and evaluated. Considering that flow from the Crowder Plant is sent to the ultraviolet disinfection process at the Shoal Creek Plant and can be routed through the Shoal Creek facility as well, flows from both facilities must be accounted for when evaluating the Shoal Creek Plant. From this data, the total flow being discharged from each facility was evaluated, which therefore includes not only flow from residential, commercial, and industrial sources but also extraneous water that enters the system as I&I as well.

For the Crowder Plant, DMR flow data for 2020 through 2022 was not available. City personnel indicate that the average daily flow at the Crowder Plant is approximately 600,000 gpd with peak flows reaching approximately 5.0 MGD. While current flow data is not available, flow values from 2013 and 2014 indicate an average daily flow of 900,000 and a peak of 4.3 MGD. To be conservative, 900,000 gpd will be used as the existing average daily flow while 5.0 MGD will be used for the current peak flow rate. These two values yield a peaking factor of 5.6. Using the equation from the MDNR Minimum Design Standards,  $PF = (18 + \sqrt{P}) / (4 + \sqrt{P})$  where P = population in thousands, the theoretical peaking factor for the City of Neosho would be 2.85. Comparing this theoretical value to the actual peaking factor for the Crowder Plant, the actual value is nearly double that of the theoretical. While this likely indicates high levels of I&I are affecting the Crowder basin, a peaking factor of 5.6 is not unusual.



Flow data for the Shoal Creek Plant is based on data collected at Internal Monitoring Point 5. From this information, the average dry weather flow is approximately 2.2 MGD with the average monthly flow being approximately 3.2 MGD throughout the wettest part of the year. The overall average flow for the facility is 2.4 MGD. Considering a peak flow of 5.5 MGD compared to the average monthly flow yields a peaking factor of 2.3. Comparing this value to the previously calculated theoretical value of 2.85 shows that peak flows experienced at the Shoal Creek Plant appear to be slightly lower than what would be estimated. Wastewater treatment plant flows for the Shoal Creek facility from January 2020 through December 2022 are summarized in Appendix B.

As stated, there is the potential for Crowder flows to be routed through the Shoal Creek Plant. As such, consideration should be given to this condition as it relates to the capacity of the Shoal Creek Plant when planning for the future. Combining the average daily flows from both the Crowder and Shoal Creek Plants produces an average daily wastewater flow of 3.3 MGD. Comparing this value to the current population of 12,590 yields an average per capita flow of approximately 262 gpcd. This value, when compared to an average value of 100 gpcd is 2.62 times higher than the anticipated daily flow.

When considering a combined peak flow, both peak values could be totaled to yield a potential peak flow of 10.5 MGD. Given this assumes that peak flows in both systems occur on the same day, this value is likely somewhat conservative. However, this peak flow is not necessarily unreasonable for a peak inflow value for both systems. Current flow data for both the Shoal Creek Plant and the Crowder Plant is summarized in Table 5-1.

**Table 5-1. Shoal Creek and Crowder Plant Current Flows**

|                        | <b>Crowder</b> | <b>Shoal Creek</b> | <b>Shoal Creek and Crowder</b> |
|------------------------|----------------|--------------------|--------------------------------|
| <b>Average (MGD)</b>   | 0.9            | 2.4                | 3.3                            |
| <b>Max Month (MGD)</b> | 1.7            | 4.4                | 6.0                            |
| <b>Peak (MGD)</b>      | 5              | 5.5                | 10.5                           |
| <b>Peaking Factor</b>  | 5.6            | 2.3                | 3.2                            |

### 5.1.3 Pollutant Loading

Influent BOD<sub>5</sub> and total suspended solids are measured for percentage removal calculations only. No other constituents are required to be measured for the influent according to the MSOP. Samples for the Crowder Plant are taken at Internal Monitoring Point 1 and samples for the Shoal Creek Plant are collected at Internal Monitoring Point 4. DMR data analyzed includes results from once-weekly effluent and influent grab samples to calculate removal efficiency. This data includes measurements of BOD<sub>5</sub> and TSS.

Influent BOD<sub>5</sub> and TSS data were combined with corresponding effluent flow measurement data (estimated as being equal to influent flow) to estimate influent loads in lb/day according to the following equation:

$$\text{Influent Loading} \left( \frac{\text{lb}}{\text{day}} \right) = \text{Flow (MGD)} \times \text{Concentration} \left( \frac{\text{mg}}{\text{L}} \right) \times 8.345$$

For the Shoal Creek Plant, corresponding influent concentration data and flow values were available to be able to calculate daily loading values. As indicated, however, such flow data was not available for the Crowder Plant. In order to estimate Crowder daily flow values that correspond to influent concentration readings, it will be assumed that flow ratios between the Shoal Creek and Crowder plants are similar on a daily basis. Based on this assumption, Crowder's daily flow values can be estimated using Shoal Creek's ratio of daily flow to its average flow relative to Crowder's average flow. From these flow values, daily influent concentrations can be used to estimate daily BOD<sub>5</sub> and TSS loadings for the Crowder Plant.

As stated previously, the condition of the Crowder Plant would likely require major improvements to allow it to maintain proper operation going into the future. Considering the existing facilities are available and in use to convey flow from Crowder to Shoal Creek, it is more reasonable to assume that the Shoal Creek Plant will need to be able to treat the raw wastewater from Crowder at the time improvements to Crowder would be pursued. As such, a loading condition for the Shoal Creek Plant that reflects receiving untreated flow from Crowder is a more reasonable condition to plan for instead of continuing to receive treated effluent from the existing Crowder facilities. Based on this, a combined loading condition for Shoal Creek treating raw wastewater from Crowder, assuming no treatment occurs through the existing Crowder facilities, will be a scenario evaluated in this report.

Table 5-2 provides a summary of BOD and TSS influent sampling data from January 2020 to December 2022 along with corresponding influent loads. The raw DMR sampling data and calculated loading values for both plants are provided in Appendix B.

**Table 5-2. Shoal Creek and Crowder Plant Current Loads**

|                           | Shoal Creek      |       | Crowder          |      | Combined         |       |
|---------------------------|------------------|-------|------------------|------|------------------|-------|
|                           | BOD <sub>5</sub> | TSS   | BOD <sub>5</sub> | TSS  | BOD <sub>5</sub> | TSS   |
| <b>Avg. (mg/l)</b>        | 52               | 91    | 444              | 203  | -                | -     |
| <b>Peak (mg/l)</b>        | 630              | 566   | 2420             | 1540 | -                | -     |
| <b>Avg. (lb/day)</b>      | 1260             | 1850  | 2828             | 1399 | 3915             | 3233  |
| <b>Max Month (lb/day)</b> | 5937             | 5885  | 6021             | 4775 | 6809             | 8919  |
| <b>Peak (lb/day)</b>      | 12085            | 13217 | 16281            | 7366 | 17877            | 14873 |

Table 5-3 displays typical constituent concentrations for medium-strength wastewater from Metcalf & Eddy (2014), *Wastewater Engineering Treatment and Reuse*, Fifth Edition. Typically, systems that collect relatively low per-capita flows tend to produce higher-strength wastes, and systems that collect relatively high per-capita flows tend to produce lower-strength wastes.

**Table 5-3. Typical Constituent Concentrations for Municipal Wastewater**

| Item                                                                                                                                                   | Low Strength Wastewater <sup>(1)</sup> | Medium Strength Wastewater <sup>(1)</sup> | High Strength Wastewater <sup>(1)</sup> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|-----------------------------------------|
| Per-capita Flowrate                                                                                                                                    | 150 gal/capita-day                     | 100 gal/capita-day                        | 50 gal/capita-day                       |
| BOD <sub>5</sub>                                                                                                                                       | 133 mg/L                               | 200 mg/L                                  | 400 mg/L                                |
| TSS                                                                                                                                                    | 130 mg/L                               | 195 mg/L                                  | 389 mg/L                                |
| 1. Adapted from <i>Metcalf and Eddy</i> , <i>Wastewater Engineering: Treatment and Resource Recovery</i> , 5 <sup>th</sup> edition (2014), Table 3-18. |                                        |                                           |                                         |

Based on these typical ranges, wastewater at the Shoal Creek Plant tends to be low strength in terms of BOD<sub>5</sub> and TSS while wastewater at the Crowder Plant could be considered to generally be high strength for BOD<sub>5</sub> and TSS. Crowder's influent being higher strength is most likely because the facility receives industrial waste from permitted facilities.

#### 5.1.4 Infiltration/Inflow

##### 5.1.4.1. Theoretical Wastewater Flows

Water sales data serves as an indicator of the theoretical wastewater flows that would be anticipated if there were no infiltration/inflow entering the City sewer system. The City of Neosho operates a water treatment facility and provides its own drinking water. Water usage data shows that the City of Neosho sold an average of 1,239,757 gallons per day between residential, commercial, and industrial users from 2020 to 2022. It is typical to assume that wastewater flows would be approximately 80% of water sales if no I&I was present in the system. Using this assumption yields a theoretical wastewater flow of 991,805 gallons per day. The difference between the theoretical and actual wastewater flow most likely represents a rough estimate of the average I&I entering the Neosho system. Table 5-4 provides a comparison of the total theoretical wastewater flow to the average daily flow for both the Shoal Creek and Crowder facilities to produce an estimated average daily I&I flow value.

**Table 5-4. Wastewater Flow Based on Water Usage Data**

| <b>Daily Avg. Water Usage</b> | <b>Estimated Daily Avg. Wastewater*</b> | <b>Actual Daily Avg. Wastewater Flow</b> | <b>Estimated Daily Avg. I&amp;I</b> |
|-------------------------------|-----------------------------------------|------------------------------------------|-------------------------------------|
| 1.240 MGD                     | 0.992 MGD                               | 3.300 MGD                                | 2.308 MGD                           |

\*80% of the Water Usage

##### 5.1.4.2. Cost-Effective Analysis

“Excessive” I&I is the quantity of infiltration/inflow that can be economically eliminated from a sewer system by rehabilitation, as determined by a cost-effective analysis that compares the costs for I&I correction with total costs for transportation and treatment of I&I.

Based on the information presented in Table 5-4, it can be concluded that 2.308 MGD represents a rough estimate of the additional daily flow entering Neosho’s wastewater system as I&I. This indicates that on average, approximately 30% of flow within the system comes from users (residential, commercial, and industrial) and nearly 70% of the total average daily volume is from infiltration and inflow which enters the system through leaking sewer pipes, manholes, and from the private side of the collection system (service laterals, sump pump connections, foundation drains, etc.).

Inflow and infiltration increase operating and maintenance costs for both the collection and treatment systems. In the collection system, excess flow that cannot make its way to the treatment facilities solely by gravity, is required to be pumped at one point or another. This brings increased

power consumption and wear on the pumping equipment. In conjunction with the increases in power costs and equipment maintenance costs associated with transporting and treating peak flows, additional operator time is required to monitor collection system lift stations, etc. Similarly, additional costs are also incurred at the treatment facilities as the excess flow must also be treated, increasing power consumption, operator time, equipment maintenance, and chemical costs.

Considering that I&I flow has a reduced treatment cost due to lesser organic loadings and that many of the existing facilities within the system would still operate in a similar manner even without I&I, it will be assumed that the cost to treat I&I is 30% of the operating costs. With an average total annual operating cost of \$1,617,445 for the wastewater system, not considering debt service, \$485,233 (30%) can be roughly estimated to be associated with I&I flow. With an estimated 743,570,000 gallons of I&I going through the City's system in a year, the average O&M cost associated with I&I can be estimated as \$0.65 per 1,000 gallons.

#### 5.1.4.3. I&I Findings

Considering the large portion of the City's flow that is estimated as being I&I, it is recommended that the City pursue efforts at reducing the extraneous flow entering the system. Beyond increased O&M costs, excessive I&I decreases collection and treatment system capacity which necessitates large and costly facility improvements to accommodate these flows. As such, it is prudent to spend the necessary resources now to regain capacity in the existing facilities. This will help prevent costly expansions in the future that serve mainly to convey and treat I&I while still not solving the issue.

Unfortunately, meaningfully reducing I&I within the system is typically costly and is a long-term goal that is generally achieved after years of work. Estimating the amount of I&I reduction relative to the degree of efforts pursued is also simply not feasible. These things considered, it is still necessary to evaluate the needs of the wastewater system based on current and future flows that do not reflect a reduction in I&I. Further, it is not recommended to delay any necessary improvements to existing facilities in the hopes that I&I will be reduced sufficiently and quickly enough to eliminate the need for said improvements. Addressing current and future system needs while also working to reduce I&I are efforts that should be pursued simultaneously. If the City decides to focus on I&I abatement, a detailed flow monitoring, acoustic sounding, and smoke testing campaign would be required to be conducted first.

## 5.2 Future Conditions

### 5.2.1 General

Future conditions must be considered when studying Neosho's wastewater treatment facility. This section will provide estimates of wastewater treatment needs through the year 2043.

### 5.2.2 Population Projections

Recent trends in population growth in Neosho will serve as the primary indicator of future growth patterns, and therefore future wastewater flows. The past six decades were analyzed for future population projections.

**Table 5-5. Census Data**

| Year | Population | Increase<br>or<br>Decrease | Percent<br>Change |
|------|------------|----------------------------|-------------------|
| 1960 | 7,452      | N/A                        | N/A               |
| 1970 | 7,517      | 65                         | 0.9 %             |
| 1980 | 9,493      | 1976                       | 26.3 %            |
| 1990 | 9,254      | -239                       | - 2.5 %           |
| 2000 | 10,505     | 1251                       | 13.5 %            |
| 2010 | 11,835     | 1330                       | 12.7 %            |
| 2020 | 12,590     | 755                        | 6.4 %             |

To propose an improvement program for the future, it is necessary to project the population for the design year of 2043 so that proposed facilities can be designed to accommodate future flows and loads. Four methods of projecting the population were utilized: Arithmetic Projection, Geometric Projection, Average Percent Increase Projections Per Annual Basis, and Average Percent Increase Per Decade Basis. The calculations for the individual projection methods are provided in Appendix C of this report.

Each method has both advantages and disadvantages when projecting the future population. For a community the size of Neosho, the addition of a large housing subdivision or a moderately large industry locating to the area may significantly impact the population growth. Excluding such a factor, it is reasonably accurate to arrive at a composite figure based on the average of the population projections described in Table 5-6.

**Table 5-6. Population Projections**

| Method                                              | Projected Population |
|-----------------------------------------------------|----------------------|
| Arithmetic Projection for 2043                      | 14,560               |
| Geometric Projection for 2043                       | 15,393               |
| Average Annual Percent Increase Projection for 2043 | 15,660               |
| Average Decade Percent Increase Projection for 2043 | 15,523               |
| Average                                             | 15,284               |

The average of the 2043 population projections of 15,284 people will be used for this report. This reflects a population increase of approximately 21% from the current population.

### 5.2.3 *Hydraulic Loading*

The population projection indicates an approximately 21% increase in population over the next 20 years. It's reasonably accurate to assume that the increase in average daily wastewater flows will mirror that of the population; especially if the I&I problem is not mitigated. Additionally, it is anticipated that the peaking factor calculated previously will remain applicable.

The projected wastewater flows for both the Crowder and Shoal Creek treatment facilities in the year 2043 are presented in Table 5-7.

**Table 5-7. Shoal Creek and Crowder Plant Projected Flows**

|                        | Crowder | Shoal Creek | Shoal Creek and Crowder |
|------------------------|---------|-------------|-------------------------|
| <b>Average (MGD)</b>   | 1.1     | 2.9         | 4.0                     |
| <b>Max Month (MGD)</b> | 2.1     | 5.3         | 7.3                     |
| <b>Peak (MGD)</b>      | 6.1     | 6.7         | 12.7                    |
| <b>Peaking Factor</b>  | 5.6     | 2.3         | 3.2                     |

#### 5.2.4 Pollutant Loading

As with hydraulic loading, it is reasonable to estimate that the organic loading will increase at a rate that reflects the increase in population. As such, a 21% increase in organic loads in 2043 compared to current loads can be expected. Table 5-8 represents these estimated future load values for the Crowder and Shoal Creek plants.

**Table 5-8. Shoal Creek and Crowder Plant Projected Loads**

|                           | Shoal Creek      |       | Crowder          |      | Combined         |       |
|---------------------------|------------------|-------|------------------|------|------------------|-------|
|                           | BOD <sub>5</sub> | TSS   | BOD <sub>5</sub> | TSS  | BOD <sub>5</sub> | TSS   |
| <b>Avg. (mg/l)</b>        | 52               | 91    | 444              | 203  | -                | -     |
| <b>Peak (mg/l)</b>        | 630              | 566   | 2420             | 1540 | -                | -     |
| <b>Avg. (lb/day)</b>      | 1525             | 2239  | 3422             | 1692 | 4737             | 3912  |
| <b>Max Month (lb/day)</b> | 7183             | 7120  | 7286             | 5778 | 8239             | 10792 |
| <b>Peak (lb/day)</b>      | 14622            | 15993 | 19700            | 8913 | 21631            | 17996 |



## 6.0 WASTEWATER TREATMENT FACILITY DESIGN CRITERIA

### 6.1 Influent Design Criteria

In establishing influent design criteria, current and future conditions as well as the impacts of directing flow from the Crowder Plant through the Shoal Creek Plant for treatment must be considered. This presents four different parameters for evaluating the capacity of existing facilities and alternatives for system improvements. Table 6-1 summarizes information discussed in Section 5.0 to present these four conditions.

**Table 6-1. Shoal Creek Influent Design Conditions**

|                                 | Shoal Creek |                           |              | Shoal Creek and Crowder |                           |              |
|---------------------------------|-------------|---------------------------|--------------|-------------------------|---------------------------|--------------|
|                                 | Flow (MGD)  | BOD <sub>5</sub> (lb/day) | TSS (lb/day) | Flow (MGD)              | BOD <sub>5</sub> (lb/day) | TSS (lb/day) |
| <b>Current (2023) Avg.</b>      | 2.4         | 1260                      | 1850         | 3.3                     | 3915                      | 3233         |
| <b>Current (2023) Max Month</b> | 4.4         | 5937                      | 5885         | 6.0                     | 6809                      | 8919         |
| <b>Current (2023) Peak</b>      | 5.5         | 12085                     | 13217        | 10.5                    | 17877                     | 14873        |
| <b>Future (2043) Avg.</b>       | 2.9         | 1525                      | 2239         | 4.0                     | 4737                      | 3912         |
| <b>Future (2043) Max Month</b>  | 5.3         | 7183                      | 7120         | 7.3                     | 8239                      | 10792        |
| <b>Future (2043) Peak</b>       | 6.7         | 14622                     | 15993        | 12.7                    | 21631                     | 17996        |

### 6.2 Effluent Design Criteria

As described previously, a phosphorus effluent limit of 1.0 mg/L will come into effect on January 1, 2033. Initially, efforts should be made to try to meet this limit biologically. If this cannot be accomplished, further evaluation will be required to reduce phosphorus effluent levels chemically via additional improvements to the treatment facilities.

With no other known limits to be considered for the immediate future, effluent design criteria for both current and future conditions will be the same as those outlined for the Shoal Creek Plant in the existing operating permit. As such, it is also assumed that the current limits for Outfall #001 and the more stringent limits of #IP5 will still apply to effluent from Shoal Creek under the circumstance that flow from the Crowder Plant is sent through Shoal Creek to receive treatment. These design limits are presented in Table 6-2.

**Table 6-2. Shoal Creek Design Effluent Limitations**

| Effluent Parameter            | Units   | Limitations |             |              |
|-------------------------------|---------|-------------|-------------|--------------|
|                               |         | Daily Max   | Weekly Avg. | Monthly Avg. |
| Ammonia as N (Apr 1 - Sep 30) | mg/L    | 6.1         | -           | 1.2          |
| Ammonia as N (Oct 1 - Mar 31) | mg/L    | 11.9        | -           | 2.2          |
| E. coli (Apr 1 - Oct 31)      | #/100mL | -           | 630         | 126          |
| Oil & Grease                  | mg/L    | 15          | -           | 10           |
| Phenol                        | ug/l    | 4200.5      | -           | -            |
| Cadmium, Total Recoverable    | ug/l    | 0.6         | -           | 0.3          |
| Iron, Total Recoverable       | ug/l    | 1849.6      | -           | 702.5        |
| Selenium                      | ug/l    | 9.2         | -           | 3.2          |
| BOD <sub>5</sub>              | mg/L    | -           | 45          | 30           |
| Total Suspended Solids        | mg/L    | -           | 45          | 30           |

## 7.0 EVALUATION OF EXISTING TREATMENT FACILITIES

### 7.1 Process Description and Evaluation

The features and general conditions of each component of the facility are described below. Further, each component is evaluated based on its ability to accommodate both current and future design conditions.

#### 7.1.1 *Crowder Lift Station*

At the end of the Crowder Plant is a lift station that conveys treated flow to the Shoal Creek Plant for UV disinfection and then discharge to Shoal Creek. This lift station is equipped with two 50 HP line shaft vertical turbine pumps capable of producing approximately 1,500 gpm at 97 feet TDH. This gives the pumping facility a firm capacity of 1,500 gpm (2.16 MGD) assuming one pump is out of service. Wastewater conveyed by these pumps travels through approximately 5.7 miles of 16" diameter pressure sewer to make it to the Shoal Creek Plant. Since this facility pumps flow to the Shoal Creek Plant, it must also be evaluated for any improvement needs and its ability to meet current and future flow conditions.

Comparing the pumping capacity of this facility to the current flow values for Crowder, it has adequate capacity for the average (0.9 MGD) and max month (1.7 MGD) conditions, but not the peak flow (5.0 MGD). This is validated by the fact that plant personnel have indicated that flow equalization basins at the plant fill up during peak flows. Similarly, for future conditions, the existing pumps could accommodate the average (1.1 MGD) and max month (2.1 MGD) flows, but not the peak flows (6.1 MGD). While flow equalization is available to help attenuate the peak flows, additional pumping capacity is likely needed to make sure that future flows do not exceed the capacity of the equalization basins.

In addition to the need for more pumping capacity, the existing pumps are simply in need of replacement due to age. At the time that additional capacity is pursued, it is recommended that the entire lift station be renovated to ensure adequate operation going into the future.

### 7.1.2 *Flow Equalization Basins*

The Shoal Creek Treatment Plant utilizes a flow equalization basin located roughly 1,600 feet upstream of where the main interceptor line ties into the plant. The basin has concrete walls with a clay/bentonite lined bottom and has a nominal capacity of approximately 12.1 million gallons. The basin is also equipped with a mechanically cleaned bar screen ahead of three submersible pumps. Each pump is 40 HP and designed to operate at 4,020 gpm (5.79 MGD) at 42 TDH. Both the screen and the pumps are located in the main channel that sees wastewater flow before being diverted to the basin.

Upon observation of the mechanical screen, it appears that some flow may be able to bypass the screen by flowing around the screen. This is thought to have no adverse impacts on the operation of the system and is not something that needs to be addressed. The screen appears to have adequate hydraulic capacity for both current and future flows, including if flow from Crowder is diverted through the screen. A submersible mixer is also located in the channel. The equipment and controls at the basin are equipped with a backup 130 kW generator.

A level transducer and backup float switch control the pumps to turn on based on the water level. As the water level in the channel reaches the defined set points, the pumps turn on to transfer flow over the channel wall and into the flow equalization basin. As peak flows subside, stored wastewater is allowed to gravity flow back into the sewer line via a manually operated sluice gate and continue to the Shoal Creek Plant.

Plant personnel have indicated that the pumps turn on to divert flow to the equalization basin too soon when the plant is still has capacity. This causes the equalization basin to fill too quickly. As such, the plant operators choose to operate the pumps manually instead of relying on the controls that are currently in place. When considering that each pump has a capacity of 5.79 MGD and is equipped with soft starts, it seems very likely that the pumping capacity of each pump is simply too great. Diverting that much flow at once relative to current flows, including peak flows, would leave very little flow to go to the plant. To provide better operation, it is recommended that the controls and operating characteristics of the pumps be altered to allow for better control of the facilities.

The Crowder Treatment Plant also has two flow equalization basins. The first basin is located near the head of the plant and has an estimated volume of 5,900,000 gallons. The other basin is much smaller and is located next to the lift station at the end of the plant that pumps flow to the Shoal Creek Plant. It has an estimated capacity of 100,000 gallons. Together, this provides

approximately 6,000,000 gallons of flow storage capacity at the Crowder Plant. No immediate improvements are needed to these facilities.

### 7.1.3 *Diversion Splitter Manhole*

Wastewater enters the Shoal Creek Treatment Plant via a 30" interceptor sewer which discharges into the diversion splitter manhole at the head of the plant. This structure allows the flow to be diverted using valves into either of the two pumps at the raw sewage pumping structure via two 24" pipes.

The existing facilities are in good working condition and are not anticipated to need to be replaced or improved in the near future. No other issues or needed improvements are identified for this structure. The diversion splitter manhole is thought to be adequate in its current condition to meet current and future needs.

### 7.1.4 *Raw Sewage Pumping Structure*

The raw sewage pumping structure consists of two, 8' diameter manholes each of which is equipped with a Fairbanks Morse vertical turbine pump. Each pump is rated for 3.0 MGD at 33' TDH. Each pump discharges through a 16" pipe before combining into a common 20" pipe that carries flow to the inlet structure. One pump is equipped with a VFD and both pumps operate off air bubbler systems. Plant personnel indicate that replacement parts for the pumps are hard to get. Considering the age of the existing pumps, it is likely that this will continue to be an issue until the pumps are replaced.

Considering there are only two pumps, the firm pumping capacity of this structure would be 3.0 MGD with one pump out of service. With that, the available pumping capacity is considered to be inadequate when compared to max month and peak flows for both current and future conditions at the Shoal Creek Plant. The ability to divert peak flows to the flow equalization basin does alleviate the need for this pumping structure to be able to handle all the flow during peak conditions. However, considering the condition of the existing pumps and the current capacity relative to design flow conditions, improvements to the facility will need to be made to allow for continued reliable operation. Greater pumping capacity will certainly be needed if Shoal Creek begins to treat flow from Crowder and flow from Crowder is rerouted to enter the Shoal Creek Plant ahead of the raw sewage pumps.

### 7.1.5 *Inlet Structure*

Wastewater pumped from the raw sewage pumping structure enters the west channel in the inlet structure, which contains multiple non-mechanical bar screens. As such, screens are manually cleaned, and waste is disposed of in a nearby dumpster. Valving located near the structure allows for flow from the 16" pressure sewer from Crowder to either be taken directly to the UV structure at the end of the Shoal Creek Plant or to be diverted into the eastern channel of the inlet structure after the bar screens. The former is how the facilities are normally operated. Further, both the east and west clarifiers send return-activated sludge to the east channel of the inlet structure. RAS going into the inlet structure is measured using a 9" Parshall Flume. Flow to either of the oxidation ditches can be shut off by slide gates located on the discharge end of the inlet structure channels. From the inlet structure, wastewater gravity flows to the oxidation ditches through 24" pipes.

Plant personnel have indicated that the slide gates at the end of the channels are hard to operate and could benefit from replacement. It was also noted that flow does not equalize well between the two channels in the inlet structure. This may be because the location of inflow from Crowder and/or the separation of influent and RAS channels causes unequal distribution of flow. While this is not necessarily an issue for current conditions, the need for additional facilities for treating flow from Crowder will require improvements for better control of the flow split between treatment trains.

Considering that all flow passes through the mechanical bar screen at the flow equalization basin, except for flow from Crowder, there appears to be a significant amount of debris that is getting caught on the bar screens in the inlet structure. According to plant personnel, this may be because septic haulers dump just upstream of the raw sewage pumps. As such, debris from these haulers is likely not only causing excessive buildup on the screens but is also being transferred through the raw sewage pumps. This creates the potential to damage and reduce the life of the pumps. For this reason, the current situation concerning the location or the outright ability of septic haulers to dump at the plant should be evaluated for possible revision to lessen potential adverse impacts on plant operations.

The bar screens themselves are also in fairly poor condition and should likely be replaced if screening at the inlet structure continues to be needed. Finally, personnel have indicated that there is significant sediment and grit buildup in the channels. As such, the implementation of improvements to remove grit from the waste stream and prevent it from migrating further into the plant is recommended.

#### 7.1.6 Oxidation Ditches

Secondary treatment of the wastewater is provided by two oxidation ditches, each equipped with four 50 HP Hydro Rotors to provide aeration and mixing of the influent wastewater and RAS. The rotors are mounted on revolving horizontal shafts which are partially submerged in the wastewater. Three of the rotors in each ditch provide firm capacity while the fourth is a standby for emergency cases and maintenance. According to plant personnel, running two rotors does not provide sufficient oxidation, and running a fourth rotor leads to a higher solids concentration in the flow exiting the ditch. The higher concentrations with four rotors running are likely because the fourth rotor stirs up solids that have settled in the bottom of the ditches.

The rotors can vary in speed from 54-66 rpm as necessary and have a minimum and maximum submergence of 8" and 13", respectively. Each ditch is approximately 290' long by 44' wide, with oval ends. The channels are 16' in total depth with a 14' water depth which provides a volume of 1.5 MG per ditch and a total volume of 3.0 MG. Based on the current flows of the plant, the operators are able to facilitate treatment with only one of the oxidation ditches in use. Effluent from the ditches is discharged through rotating weirs to the clarifier splitter box. The weirs of both ditches have been replaced previously and work well.

MDNR design guidelines provide recommended loading ranges for activated sludge processes (*Wastewater Guidelines and Standards Document*, Table 9-6). For an oxidation ditch, it is recommended that the volumetric BOD<sub>5</sub> loading be in the range of 5-30 lb BOD<sub>5</sub>/day/1000 cf and the hydraulic retention time (V/Q) in the range of 8-36 hours. With a combined total of 3.0 MG between the two ditches, the operating range of the oxidation ditches is 2,005 lb BOD<sub>5</sub>/day to 12,030 lb BOD<sub>5</sub>/day and 2.0 MGD to 9.0 MGD, based on the described MDNR guidelines. At the design flow of 3.0 MGD, the hydraulic retention time is 24 hours.

Evaluating daily flows for the Shoal Creek Plant from January 2020 through December 2022, no instances were recorded that were greater than 9.0 MGD, meaning that the hydraulic retention time was never less than the minimum eight hours. Further, over this period, there was only one instance where BOD loading exceeded the maximum load established per MDNR guidelines of 12,030 lb BOD<sub>5</sub>/day. A value of 12,084 lb BOD<sub>5</sub>/day was recorded on January 3, 2020, barely exceeding the upper threshold value established by the guidelines. The next highest day for BOD loading had a value of 8,411 lb BOD<sub>5</sub>/day, below 12,030 lb BOD<sub>5</sub>/day. Further, the current maximum monthly loading was 5,937 lb BOD<sub>5</sub>/day which is also well below the capacity of the ditches. As such, the oxidation ditches have adequate capacity for current conditions treating flows going to the Shoal Creek Plant.

For future conditions reflecting only treating Shoal Creek flows, the existing ditches are still adequate. While the estimated peak value of 14,622 lb BOD<sub>5</sub>/day from Table 6-1 exceeds the plant capacity, it still reflects only a singular peak loading day. The maximum monthly loading is 7,183 lb BOD<sub>5</sub>/day which is a more reasonable design criteria and does not exceed the plant capacity. The 9.0 MGD hydraulic capacity of the ditches is also greater than the future flows presented in Table 6-1.

Using the same values established previously by MDNR guidelines for BOD<sub>5</sub> loading rate and hydraulic retention time, current and future conditions at the Shoal Creek Plant when it treats all of Crowder's flow must also be considered relative to the criteria established in Table 6-1. Based on these values, the existing ditches would likely struggle under current and future peak BOD<sub>5</sub> loading conditions if also treating flow from Crowder. Hydraulically, the current capacity of the ditches meets maximum month flows but cannot handle peak flows for both current and future conditions. Considering the use of flow equalization, the hydraulic capacity of the ditches is adequate. However, additional capacity would be needed to be able to consistently and effectively treat the additional BOD loads from the Crowder Plant.

The oxidation ditches must also be evaluated based on the ability of the rotors to supply oxygen relative to the oxygen required for the proper treatment of the wastewater. Considering six rotors each having an effective length of 18', an average submergence depth of 13", and a speed of 66 rpm, each rotor can supply 126 lbs of O<sub>2</sub> per hour (per the O&M manual for the rotors) to provide a total firm capacity of 756 lbs of O<sub>2</sub> per hour.

To calculate the actual oxygen required (AOR) for BOD<sub>5</sub> removal, it is assumed that 1.4 lbs of O<sub>2</sub> per lb of influent BOD<sub>5</sub> is required considering the maximum monthly BOD<sub>5</sub> load. Similarly, it is assumed that 4.6 lbs of O<sub>2</sub> per lb of influent NH<sub>3</sub> is also required for ammonia removal. Since influent NH<sub>3</sub> concentration data is not available, NH<sub>3</sub> loadings will be based on an assumed concentration of 30 mg/L and the respective maximum monthly design flow. Together, the oxygen required for the removal of BOD<sub>5</sub> and NH<sub>3</sub> gives the AOR. Further, the equation below is used to calculate the standard oxygen required (SOR) for the various design conditions.



$$SOR = \frac{(AOR)(C_s)}{(\alpha)(\theta^{(T-20)}[(\beta)(C_{sc} - C_L)])}$$

Where: SOR is Standard Oxygen Requirement  
AOR is Actual Oxygen Requirement  
 $\alpha$  (0.85) is the Oxygen Transfer Correction Factor  
 $\beta$  (0.95) is the Salinity – Surface Tension Correction Factor  
 $\theta$  (1.024) is the Oxygen Transfer Coefficient  
T (12) is Degrees Celsius Temperature of Water  
C<sub>sc</sub> (10.5) is the Dissolved Oxygen Concentration at 40% depth at the site elevation and temperature in mg/L  
C<sub>s</sub> (9.02) is the Dissolved Oxygen Saturation Concentration in clean water at 20 Degrees C in mg/L  
C<sub>L</sub> (2.00) is the Operating Dissolved Oxygen Concentration in mg/L

Table 7-1 provides the AOR and SOR for current and future design conditions.

**Table 7-1. Standard Oxygen Required at Design Conditions**

|                       | Shoal Creek    |                | Shoal Creek and Crowder |                |
|-----------------------|----------------|----------------|-------------------------|----------------|
|                       | AOR<br>(lb/hr) | SOR<br>(lb/hr) | AOR<br>(lb/hr)          | SOR<br>(lb/hr) |
| <b>Current (2023)</b> | 557            | 885            | 685                     | 1088           |
| <b>Future (2043)</b>  | 674            | 1071           | 829                     | 1317           |

Comparing the firm capacity of the existing rotors to the calculated SOR values, the ability of the current facilities to supply oxygen for proper treatment is inadequate for all design conditions. As such, additional oxygen supply capabilities are recommended.

Plant personnel have indicated that the bearings for the rotor shafts have experienced failures over the years. Due to this, the rotor shafts have bent, and this has caused the motor to move while in operation. The facility has increased the size of the shafts when they have needed to be replaced, but this seems to have only exacerbated the issues and caused more rotor shaft failures. Considering this, the rotors appear to need major repairs, if not replacement.

It was also noted that 6" drain lines from the ditches to the diversion splitter manhole take quite some time to drain the ditches. Upsizing these lines is something that should be considered.

### 7.1.7 Clarifier Flow Splitter Box

The clarifier flow splitter box receives effluent from both oxidation ditches and directs flow to either or both secondary clarifiers via 24" pipes. Each channel of the splitter box is fitted with a slide gate to be able to isolate the clarifiers and weirs to control the flow split between the clarifiers. Flow exits the splitter box through 24" pipes to go to the clarifiers. No issues are reported with the existing clarifier flow splitter box.

### 7.1.8 Secondary Clarifiers

After exiting the clarifier splitter box, wastewater enters the secondary clarifiers, each of which is 65' in diameter and has a side water depth of 12' and a total depth of 13.75' around the perimeter. The clarifiers are full-bridge peripheral feed, center flow clarifiers. Wastewater enters the clarifiers through the side skirts which help reduce the velocity of the incoming flow. Biomass settles at the bottom of the clarifier and the treated effluent discharges at the center of the clarifier through a 24" pipe to go to the UV disinfection system.

Based on MDNR design guidelines (*Wastewater Guidelines and Standards Document*, Table 7-3), the surface overflow rate (SOR) of the clarifiers at design peak hourly flow should be less than 1,000 gpd/ft<sup>2</sup>. Each clarifier has a surface area of 3,318.3 for a total area of 6,636.6 ft<sup>2</sup>. Based on a maximum SOR of 1,000 gpd/ft<sup>2</sup>, each clarifier can handle up to 3.32 MGD and both clarifiers together have a capacity of approximately 6.64 MGD.

Comparing the hydraulic capacity of the clarifiers to the design flows established in Table 6-1, the existing facilities do not have adequate capacity for the future Shoal Creek peak flow as well as current and future peak flows if also treating flow from Crowder. While the existing facilities may be able to accommodate future peak flows for just the Shoal Creek Plant when accounting for flow equalization, an increase in hydraulic capacity would be needed if Shoal Creek were to start treating flow from the Crowder Plant.

The solids loading rate through the clarifiers must also be considered for both current and future conditions. MDNR guidelines indicate that the peak solids loading rate should not exceed 40 lb/day/ft<sup>2</sup>. Peak solids loading rates can be calculated using the formula below.

$$Peak\ SLR\ \left(\frac{lb/sf}{day}\right) = \frac{\left((PF\ (MGD) + 1.5 \times ADF\ (MGD)) \times MLSS\ Conc.\ \left(\frac{mg}{L}\right) \times 8.345\right)}{Clarifier\ Surface\ Area\ (sf)}$$

Based on an average MLSS concentration of 3,000 mg/l and the respective design flows, Table 7-2 provides calculated peak solids loading rates for the various design conditions.

**Table 7-2. Peak Solids Loading Rates**

|                              | Shoal Creek | Shoal Creek and Crowder |
|------------------------------|-------------|-------------------------|
| Current Peak SLR (lb/day/sf) | 34          | 58                      |
| Future Peak SLR (lb/day/sf)  | 42          | 70                      |

Based on the values from Table 7-2, the existing clarifiers have adequate solids loading capacity at current and future conditions for Shoal Creek. Even though the future SLR of 42 lb/day/ft<sup>2</sup> exceeds the MDNR value, it does so just barely. As such, the existing facilities are thought to be accurate but will be at capacity for future Shoal Creek conditions. However, additional clarifier capacity will be needed for the Shoal Creek Plant to treat both the current and future flows from Crowder.

The weir loading rate must be evaluated as well. With a side length of 25' for the square weir in each clarifier, each clarifier has a weir length of 100 ft for a total of 200 ft of weir between the two clarifiers. Per MDNR guidelines, the maximum weir loading rate of 30,000 gpd/ft is allowed. Considering the peak flows for the various design conditions, Table 7-3 provides the respective weir loading rates.

**Table 7-3. Weir Loading Rates**

|                          | Shoal Creek | Shoal Creek and Crowder |
|--------------------------|-------------|-------------------------|
| Current Weir LR (gpd/ft) | 27500       | 52500                   |
| Future Weir LR (gpd/ft)  | 33275       | 63525                   |

Based on the values presented in Table 7-3, the existing clarifier weirs only have adequate length for current peak flows treating only flow for Shoal Creek. To accommodate future peak flows and both current and future flows from Crowder, additional weir length is needed.

The skirts on both of the clarifiers were replaced in 2009 as the then-existing skirts were deteriorating. The same is now also true for the current skirts. In addition to that, the current peripheral feed, center flow type clarifiers are an older type of design. Installation of new equipment that provides easier operation and maintenance, replacing the existing would be a more beneficial improvement than just replacing the existing skirts again. The replacement of the skirts is needed at a minimum if the existing clarifier equipment is not replaced entirely as part of larger improvements to the existing clarifier facilities.

### 7.1.9 *Return Activated and Waste Activated Sludge Pump Station*

The RAS/WAS Pump Station consists of two pumps for pulling return and waste-activated sludge from the clarifiers. Each pump sits in a 30" ductile iron pipe that acts as a wet well and connects to a 10" sludge line from each clarifier. A 10" line with a plug valve interconnects the two 30" DIP wet wells. When the valve is shut, each pump can only pull from its respective clarifier. Opening the valve allows for a pump to pull from either clarifier. Return sludge is pumped back to the inlet structure through a 12" line. RAS flow is measured by a 9" Parshall flume. Wasted sludge is pumped via a 6" line to the sludge storage facilities. The sludge pumps are rated at 500 gpm.

Plant personnel have indicated that they have limited control over pulling sludge from one clarifier or the other. As such, personnel have difficulty removing equal amounts of sludge from each clarifier. Considering the configuration of the facility, it is likely that this is related to the plug valve intended to allow for the separation of the two wet wells. It was also noted that the existing valves are difficult to operate and need replacement. It is recommended that the existing valves be replaced as well as additional valves installed as needed to provide improved operation of the facilities.

Plant personnel have also indicated that the existing sludge pumps have long since passed the end of their useful life. The pumps require regular maintenance and due to their age, replacement parts are no longer manufactured. Therefore, parts are difficult to get at best or must be manufactured. Either way, this creates long lead times for pump repairs leading to prolonged periods of pumps being out of service. Considering the issues with the pumps, it is recommended that the sludge pumps be replaced at a minimum and improvements be made to the station to allow the facility to continue to operate effectively in the future.

### 7.1.10 *Sludge Storage and Disposal*

Sludge that is not returned to the inlet structure is wasted to the sludge storage facilities. Sludge storage consists of one 80' diameter by 14' deep tank and two 55' diameter by 11' deep storage tanks. All sludge initially wasted from the clarifiers is pumped to the 80' storage tank via a 6" line. To make it to the 55' diameter tanks, the sludge is pumped from the 80' tank via sludge pumps in a wet well located west of the 80' diameter tank.

All three sludge storage tanks have floating aerators to provide aerobic digestion of the sludge. The supernatant that is decanted from the 80' diameter tank flows back to the nearby influent diversion splitter manhole. Decant from the two 55' diameter tanks is pumped back into the plant

via a nearby pump station. For disposal, sludge is pumped from the tanks and hauled to fields for land application.

Assuming two feet of freeboard, the 80' diameter tank has approximately 451,240 gallons of storage capacity. Similarly, for the 55' diameter tanks, each would have approximately 160,000 gallons of storage capacity for a total of 320,000 gallons. All three tanks together provide approximately 771,240 gallons of sludge storage. Based on sludge data from 2020 to 2022, the Shoal Creek Plant averages approximately 134 dry tons of sludge per year. The Crowder Plant averages approximately 110 dry tons of sludge per year. Assuming an average solids concentration of 2.5%, this equates to approximately 1,285,370 gallons of sludge annually for the Shoal Creek Plant and 1,055,150 gallons of sludge annually for the Crowder Plant. Applying the same 21% increase in flow for future conditions to the sludge production gives a future Shoal Creek value of 1,555,300 gallons per year and Crowder a value of 1,276,730 gallons per year.

Considering the available sludge storage volume at the Shoal Creek Plant, the existing facilities provide approximately 219 days of storage for current Shoal Creek flows and 181 days for future Shoal Creek conditions. Accounting for Crowder's flows as well, the current storage capacity of the Shoal Creek tanks would provide approximately 120 days of sludge storage at current flows and 99 days at future conditions. Per MDNR design guidelines, a minimum range of 120 to 180 days of sludge storage should be provided for the design life of the facility. As such, the existing facilities at the Shoal Creek Plant are adequate for current and future conditions when only treating Shoal Creek flows, but storage providing a minimal additional 21 days would be needed to accommodate future flows from Crowder.

The tanks themselves are in good condition. The aerators in the tanks work well but are nearing the end of their useful life and could benefit from replacement. Similarly, the decant valves work well but could be replaced in order to maintain proper functionality going into the future.

#### *7.1.11 UV Disinfection*

Disinfection is accomplished using ultraviolet disinfection equipment. The effluent flows to a Parshall flume structure for metering. The structure has two 12" wide flumes, one of which measures flow from the clarifiers of the Shoal Creek WWTP and one that measures flow from the Crowder WWTP. Ultrasonic level transducers measure the depth in each channel. Combined flows from both WWTPs are disinfected in a single channel. There are two banks of UV bulbs, each rated to disinfect up to 3 MGD which provides a total capacity of 6.0 MGD. Each bank of UV lights is either fully on or fully off and does not vary with the incoming flow. At the end of the UV

disinfection system, there is a modulated weir gate to vary discharge based on the flow through the equipment.

The 6.0 MGD capacity of the existing UV facilities is less than that of the future Shoal Creek peak flows and the combined peak flows for Shoal Creek and Crowder, both current and future. While peak flow equalization will allow the existing facilities to be adequate for future Shoal Creek flows, it is likely that additional capacity will be needed to handle the additional flow from Crowder.

The existing UV equipment is in good working condition, though it is starting to show its age having been almost 20 years since it was installed. Plant personnel have indicated that equipment set at an angle would improve the ease of maintenance compared to the existing equipment which is set horizontally. However, the dimensions of the existing channel will not allow for the installation of non-horizontal equipment. As such, new channels would have to be constructed if different equipment were to be installed.

Replacing the existing equipment is not an immediate need but is something that should be planned for in the future. If, however, Shoal Creek treating Crowder's flow is pursued, replacement of the UV facilities should be implemented alongside other improvements to the plant.

#### *7.1.12 Electrical and Back-Up Power Facilities*

Back-up power to the Shoal Creek Plant is currently provided by a 400 kW diesel generator. Plant personnel have indicated that the UV equipment is not tied into the generator and is likely because the existing generator does not have enough capacity to accommodate those facilities. Considering that it is only the UV structure that may not be on backup power, additional generator capacity is not thought to be necessary. However, with the construction of improvements to accommodate flow from Crowder, additional backup power capacity will be needed.

Personnel have also noted that the generator at the Shoal Creek Plant does not have an automatic transfer switch. As such, in the event of a power failure, personnel must travel out to the generator to switch over to backup power. Manual operation of the transfer switch is also a safety concern for personnel regarding the potential for arc flash. Therefore, the installation of an automatic transfer switch is highly recommended to eliminate the need for manual operation.

### 7.1.13 Process Evaluation Summary

Table 7-4 provides a summary of the evaluation of each process described previously in this section.

**Table 7-4. Shoal Creek Process Evaluation Summary**

| Component                                    | Improvement Needed                                                      | Reason For Improvement                                                                                                                                                       | Improvement Priority                                       |
|----------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Crowder Lift Station</b>                  | Additional pumping capacity and renovation of the lift station          | The current pumping capacity is not adequate for future flow conditions. The existing facilities are nearing the end of their useful life and need upgrades.                 | Medium Priority / High Priority (if treating Crowder Flow) |
| <b>Flow Equalization Basin - Shoal Creek</b> | Additional equipment for better operational control                     | The current setup turns pumps on too early filling up the basin when the plant still has treatment capacity. As such, personnel turn on pumps manually.                      | Low Priority                                               |
|                                              | Relocate Crowder discharge point                                        | If Shoal Creek treats wastewater from Crowder, the current location of discharge would not allow Crowder's flow to be screened.                                              | High Priority (if treating Crowder Flow)                   |
| <b>Flow Equalization Basin - Crowder</b>     | None                                                                    | -                                                                                                                                                                            | -                                                          |
| <b>Diversion Splitter Manhole</b>            | None                                                                    | -                                                                                                                                                                            | -                                                          |
| <b>Raw Sewage Pumping Structure</b>          | Pump replacement with increased capacity and renovation of the facility | Existing pumps are old, requiring frequent and time-consuming maintenance. Parts are difficult to find. Pumps have inadequate firm capacity for most design flow conditions. | High Priority                                              |

| Component                | Improvement Needed                                         | Reason For Improvement                                                                                                                                                                                                                                                                                                                                   | Improvement Priority                     |
|--------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Inlet Structure</b>   | Replace slide gates and bar screens.                       | Existing gates are hard to operate. Existing screens are in poor condition.                                                                                                                                                                                                                                                                              | Medium Priority                          |
|                          | Revise allowances for septic haulers dumping at the plant. | The location of dumping creates the potential for solids to be transferred through pumps and into the plant.                                                                                                                                                                                                                                             | Medium Priority                          |
|                          | Construction of flow splitter box structure.               | The construction of additional treatment facilities to accommodate flow from Crowder requires a structure to be constructed to better control flow distribution between trains.                                                                                                                                                                          | High Priority (if treating Crowder Flow) |
|                          | Construction of grit removal facility                      | A new facility would greatly reduce the amount of solids that make their way into the plant which increases treatment effectiveness and reduces maintenance.                                                                                                                                                                                             | Low Priority                             |
| <b>Oxidation Ditches</b> | Replace existing Hydro Rotors with new equipment           | The shafts on the existing rotors are frequently failing, even after attempted repairs. Maintenance of the existing facilities has become a constant struggle to keep the rotors in operation. Further, the existing rotors are unable to provide adequate oxygen for the proper treatment of wastewater, especially when considering future conditions. | High Priority                            |
|                          | Construct additional oxidation ditch capacity              | The existing facilities do not have adequate volumetric BOD loading capacity and hydraulic retention time to accommodate untreated flow from Crowder.                                                                                                                                                                                                    | High Priority (if treating Crowder Flow) |
|                          | Increase the size of the drain line from oxidation ditches | The current 6" drain line takes a long time to drain the ditches, increasing the downtime during maintenance.                                                                                                                                                                                                                                            | Low Priority                             |



| Component                                             | Improvement Needed                                   | Reason For Improvement                                                                                                                                                                                                                                                                                        | Improvement Priority                     |
|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Clarifier Flow Splitter Box</b>                    | None                                                 | -                                                                                                                                                                                                                                                                                                             | -                                        |
| <b>Secondary Clarifiers</b>                           | Install new clarifier equipment                      | The existing skirts are deteriorating again. Further, replacing the existing equipment with that of a different design would be beneficial to overall operation and maintenance. New equipment would also provide additional weir length to allow the two basins to be adequate for future Shoal Creek flows. | High Priority                            |
|                                                       | Construct additional clarifier capacity              | The existing clarifiers do not have adequate capacity to meet Surface Overflow Rate and Peak Solids Loading Rate criteria when treating flow from Crowder.                                                                                                                                                    | High Priority (if treating Crowder Flow) |
| <b>Return and Waste Activated Sludge Pump Station</b> | Replace existing pumps and renovate the pump station | Existing valves are difficult to operate. The system cannot currently isolate which clarifier sludge is wasted from. Existing pumps require constant maintenance and repairs with parts having to be fabricated. As such, pumps are constantly out of service.                                                | High Priority                            |
| <b>Sludge Storage</b>                                 | Construct additional sludge storage capacity         | The existing sludge storage capacity is not adequate to accommodate sludge generated by treating flow from Crowder.                                                                                                                                                                                           | High Priority (if treating Crowder Flow) |
|                                                       | Replace decant valving                               | The existing decanting valves are deteriorating, and replacement should be considered.                                                                                                                                                                                                                        | Low Priority                             |
|                                                       | Replace floating aerators                            | The existing aerators function properly, but due to their age should be expected to need replacement in the near future.                                                                                                                                                                                      | Low Priority                             |
| <b>UV Disinfection</b>                                | Replace existing UV equipment                        | The existing equipment is nearing the age where replacement should be considered.                                                                                                                                                                                                                             | Low Priority                             |
|                                                       | Construct additional UV disinfection capacity        | The existing facilities do not have adequate capacity for treating future flows from Crowder.                                                                                                                                                                                                                 | High Priority (if treating Crowder Flow) |

| Component                    | Improvement Needed                                          | Reason For Improvement                                                                                                                         | Improvement Priority                     |
|------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Electrical Facilities</b> | Provide additional backup power                             | Backup power is currently adequate. However, more will be required to accommodate the additional facilities needed to treat flow from Crowder. | High Priority (if treating Crowder Flow) |
|                              | Install automatic transfer switch to the existing generator | Without an ATS, the use of backup power requires manual operation.                                                                             | High Priority                            |

## 7.2 Facility Operation and Performance

In general, most facilities at the Shoal Creek Plant are original from when the plant was built in the mid-1980s. As such, a majority of the facilities have passed the end of their useful life, causing them to require frequent maintenance and repairs. Considering the age of the facilities, it is common for replacement parts to be difficult to find, if they can be found at all. This therefore requires parts to often be fabricated and custom-made. All of this leads to increased operation and maintenance costs in the form of additional materials and labor required to keep the plant operating properly.

Table 7-5 provides a summary of DMR effluent data from January 2020 to December 2022 for pollutants with established effluent limitations for Outfall #001 and #IP5 (discharge from the Shoal Creek Plant).

**Table 7-5. Discharge Monitoring Report (DMR) Summary**

|                            | Outfall #001              |                      |              |              |              |                  |               | #IP5                       |               |
|----------------------------|---------------------------|----------------------|--------------|--------------|--------------|------------------|---------------|----------------------------|---------------|
|                            | NH <sub>3</sub><br>(mg/l) | E. coli<br>(#/100ml) | Se<br>(ug/l) | Fe<br>(ug/l) | Cd<br>(ug/l) | Phenol<br>(ug/l) | O&G<br>(mg/l) | BOD <sub>5</sub><br>(mg/l) | TSS<br>(mg/l) |
| <b>Daily Max (High)</b>    | 7.3                       | -                    | 1            | 61.8         | 0.41         | 300              | 14.8          | -                          | -             |
| <b>Daily Max (Avg.)</b>    | 0.35                      | -                    | 0.89         | 51.6         | 0.28         | 62.5             | 5.8           | -                          | -             |
| <b>Weekly Avg. (High)</b>  | -                         | 414                  | -            | -            | -            | -                | -             | 18.9                       | 20.6          |
| <b>Weekly Avg. (Avg.)</b>  | -                         | 63.1                 | -            | -            | -            | -                | -             | 3.3                        | 4.8           |
| <b>Monthly Avg. (High)</b> | 3.7                       | 35.2                 | 1            | 61.8         | 0.41         | 62.5             | 14.8          | 6.1                        | 4.9           |
| <b>Monthly Avg. (Avg.)</b> | 0.26                      | 12.9                 | 0.89         | 51.6         | 0.28         | 30.0             | 5.8           | 2                          | 3.7           |

A review of Discharge Monitoring Reports (DMRs) shows the following exceedances from the period of 2020-2022:

- Cadmium Monthly Average: December 2021 (value of 0.41 mg/l exceeded limit of 0.3 mg/l)
- BOD<sub>5</sub> Percent Removal: April 2021 (value of 75%, not meeting limit of 85%), April 2022 (value of 77%, not meeting limit of 85%)
- Ammonia Monthly Average: December 2021 (value of 3.7 mg/l exceeded limit of 2.2 mg/l)
- TSS Percent Removal: April 2022 (value of 70%, not meeting limit of 85%), December 2022 (value of 77%, not meeting limit of 85%)

Considering these violations over the past three years, the Shoal Creek Plant has essentially had minimal issues meeting the established permit limits. The cadmium and ammonia violations appear to be isolated incidents, as do the BOD and TSS removal violations. However, the BOD and TSS removal violations appear to be indicative of low influent concentrations, making the percent removal not a concern as the facility still met effluent concentration limits. A copy of the most recent MDNR inspection report of the Shoal Creek Plant is in Appendix D.

## 8.0 WASTEWATER TREATMENT ALTERNATIVES

In order to accommodate the year 2043 conditions described previously, various alternatives are outlined in this section. These alternatives include regionalization, land application, and renovation and expansion improvements to the existing wastewater treatment facility. For the consideration of improvements to the existing facilities, the future conditions presented in Table 6-1 will be used as the basis for design.

### 8.1 No-Action Alternative

MDNR requires a do-nothing alternative to be considered [10 CSR 20-8.110(5)(D)]. This alternative presents the option for Neosho to not pursue any improvements to the existing Shoal Creek Plant. Considering the condition of the existing facilities as well as their capacity to accommodate future Shoal Creek flows and loads in some respects, a no-action alternative is not viable. Further, a no-action alternative is certainly not an option should the City wish to rely on the Shoal Creek facilities to treat flow from Crowder as additional facilities would need to be constructed.

### 8.2 Flow and Waste Reduction

Flow reduction measures are usually directed toward removing “excessive” infiltration/inflow from the collection system. As detailed in Section 5.1.4, flow reduction measures directed towards removing “excessive” infiltration/inflow from the collection system could have an impact on reducing flows to the WWTP. Although this report does recommend that the City explore I&I reduction measures, those measures alone cannot be counted on to sufficiently reduce the flows to a level where the current plant can effectively handle design flow conditions. Flow reduction is too long of a process and the results are too unpredictable to postpone improvements for more immediate needs. Further, a reduction in I&I does nothing to reduce the organic loading at the plant. To accommodate the organic loads from Crowder, additional facilities are needed. Finally, the condition of much of the existing equipment at the Shoal Creek Plant is such that it needs replacement. All that said, flow and waste reduction alone will not be a reasonable alternative.

### 8.3 Optimum Operation of Existing Facilities

Optimizing the operation of the existing facility does not address the fact that most of the equipment has passed the end of its useful life and needs replacement. Further, the existing facilities cannot be optimized to be able to accommodate the additional flows and loads from the Crowder Plant, should the option be pursued.

### 8.4 Regionalization Alternative

Regionalization involves sharing physical infrastructure in a defined geographic area when a political or private entity provides wastewater service by means of physically connecting existing and future communities to a regional or central plan. When multiple entities work together, each utility often benefits from reduced capital and operational costs, and increased economies of scale.

The City of Joplin is the nearest city with even the potential to be able to accommodate Neosho's wastewater flows. Therefore, it is theoretically possible to pump Neosho's wastewater from the location of the current WWTP to the Joplin Shoal Creek WWTP, and then contract with the City of Joplin to treat the wastewater. To do so would require the construction of at least one major lift station and approximately 112,000 lineal feet of pressure sewer. Assuming a flow rate of 7.3 MGD (5,070 gpm) must be conveyed to Joplin to accommodate Neosho's future peak flows with higher flows being attenuated by flow equalization, it is estimated that a minimum pressure sewer diameter of 24" would be required. Assuming 24" PVC pressure sewer costs approximately \$350/LF installed, the pipe alone would cost \$39,200,000. This illustrates that the cost of regionalization is simply not economically feasible, especially when compared to the costs of other alternatives discussed in the report.

## 8.5 Land Application

Surface land application is defined as the application of wastewater to the land surface at a controlled rate. Surface land application benefits the crop and soil and eliminates a discharge to the waters of the state. A land application system typically consists of three major components including a waste stabilization pond to provide primary treatment, a storage basin to retain wastewater flows when inclement weather conditions prevent irrigation operations, and an irrigation system. Both treatment and storage can be accomplished in a single-cell lagoon having varied operating depths. Irrigation system components typically include an irrigation pump and building along with a sprinkler system, such as a center pivot irrigator.

Given the size of Neosho, large tracts of land would be needed to accommodate the necessary storage and irrigation rates. Assuming a minimum volume to provide 75 days of storage in a new basin for the anticipated 4.0 MGD flows at future average day conditions, approximately 300 million gallons of usable storage would be required. The primary treatment lagoon must also be sized such that the surface area provides treatment for BOD<sub>5</sub> loadings less than 34 lb/day/acre. At the future estimated average day BOD<sub>5</sub> loading rate of 4,737 lb/day for Shoal Creek and Crowder, a minimum of 197.5 acres of lagoon surface area at the three-foot operating depth will be required. At this area, this roughly equates to an operating depth of 5 feet to achieve 300 million gallons of usable storage. Accounting for two feet of depth below the minimum operating level for seal protection and sludge storage as well as three feet of freeboard until the emergency spillway and another foot above that, a total estimated basin depth of 11 feet is expected.

In addition to the minimum size of the treatment and storage lagoon, maximum irrigation rates must also be considered. It is important that the daily application of water does not result in runoff from the field, therefore it is appropriate to limit the application rate to less than 0.5 inches per day (and less than 24 inches per year) by providing adequate irrigation area. Based on an average future daily flow of 4.0 MGD for both Shoal Creek and Crowder flows, this equates to approximately 1.46 billion gallons of wastewater annually. Based on that volume, it is reasonable to assume that at least 2,240 acres would be irrigated, resulting in a yearly application of up to 24 inches.

Considering only the estimated size of the storage/treatment lagoon and the irrigated area required, the facilities needed are simply too large for land application to be a practical alternative.

## 8.6 Improvements to Existing Facilities

Another option is to retain as much of the existing facilities as possible while implementing improvements necessary to address deficiencies described previously in this report. This section describes the various improvements needed for the existing facilities to meet the projected future demands. For facilities where further modifications are required to accommodate treating flow from the Crowder Plant, additional discussion and construction costs are provided.

### 8.6.1 Crowder Lift Station

#### **Lift Station Renovation – Medium Priority / High Priority (If Treating Crowder Flow)**

The Crowder Lift Station is a key facility and therefore, it is important that it remains in proper operating condition. While the existing pumping capacity appears to be adequate for future average and max month flows, the condition of the Crowder Lift Station is such that it is nearing time for improvements.

In general, the proposed improvements would involve constructing a new lift station to replace the existing one. The existing vertical turbine pumps would be replaced with new submersible pumps and controls. Submersible pumps work better in raw sewage conditions than the existing pumps, providing for operations that are more efficient and that require less maintenance. The new pumps would be equipped with VFDs to allow better control of operations. More specifically, this will allow for more efficient use of the existing flow equalization facilities, especially if Shoal Creek were to treat flow from Crowder. For instance, if the Shoal Creek plant is seeing too much flow, the pumps at the Crowder Lift Station could be slowed to fill up the equalization basins at Crowder more quickly and not fill up the basin at Shoal Creek as quickly. To provide additional pumping capacity, it is estimated that two 130-HP pumps, each capable of producing 2,300 gpm at 130 TDH would be installed. To accommodate the larger pumps, it is assumed that a new 10' wet well will be installed along with a new valve pit and valving.

Considering the condition of the 16" pressure sewer is unknown, the line should be inspected prior to implementing the improvements to the Crowder lift station. If there are concerns about the integrity of the existing pressure sewer and its ability to handle increased pressures from larger pumps, these should be addressed before new facilities go into operation. While the cost for inspecting the pressure sewer is included in the provided cost estimate, the cost for any repairs has not been included as the extent of repairs, if any, cannot be estimated.

If only pursuing improvements to the existing facilities at the Shoal Creek WWTP, improvements to the Crowder Lift Station are considered a medium priority. While it is a critical structure, the described improvements are not immediately necessary for the continued operation of the existing Shoal Creek facilities. The Crowder WWTP currently has a permitted outfall that it could discharge to in the event that the Crowder Lift Station was out of service and the peak flow basins were full. However, with the Crowder WWTP out of service, such circumstances would cause a discharge of untreated wastewater. As such, the reliable operation of the Crowder Lift Station will become even more crucial if the Crowder WWTP is not in service. Considering this,



renovating the Crowder Lift Station is considered a high priority if the Crowder WWTP is not operational.

Table 8-1 provides a cost estimate for constructing the described improvements to the Crowder Lift Station.

**Table 8-1. Cost Estimate for Crowder Lift Station Improvements**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                                | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|--------------------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Submersible Pumps                          | \$ 230,000.00 | \$ 230,000.00          |
| 2                                 | 1        | LS   | Pump Controls                              | \$ 130,000.00 | \$ 130,000.00          |
| 3                                 | 1        | LS   | Removal of Existing Improvements           | \$ 10,000.00  | \$ 10,000.00           |
| 4                                 | 1        | LS   | 10' Dia. WW, Valve Pit, Piping and Valving | \$ 300,000.00 | \$ 300,000.00          |
| 5                                 | 1        | LS   | Jib Crane                                  | \$ 25,000.00  | \$ 25,000.00           |
| 6                                 | 1        | LS   | Connection to Ex. 24" Dia. Gravity Line    | \$ 15,000.00  | \$ 15,000.00           |
| 7                                 | 1        | LS   | Connection to Ex. 16" Dia. Pressure Sewer  | \$ 12,000.00  | \$ 12,000.00           |
| 8                                 | 1        | LS   | Connection to Flow Equalization Basin      | \$ 15,000.00  | \$ 15,000.00           |
| 9                                 | 1        | LS   | Magnetic Flow Meter and Pit                | \$ 40,000.00  | \$ 40,000.00           |
| 10                                | 1        | LS   | Misc. Site Piping                          | \$ 20,000.00  | \$ 20,000.00           |
| 11                                | 1        | LS   | Surface Restoration and Misc. Site Work    | \$ 20,000.00  | \$ 20,000.00           |
| 12                                | 1        | LS   | 350 kW Generator                           | \$ 225,000.00 | \$ 225,000.00          |
| 13                                | 1        | LS   | Electrical                                 | \$ 50,000.00  | \$ 50,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                            |               | <b>\$ 1,092,000.00</b> |

## 8.6.2 Flow Equalization Basin

### **Peak Flow Pump Control Improvements – Low Priority**

The pumps at the Shoal Creek flow equalization basin currently operate via a level transducer and float switch to control when the pumps are turned on and off. In the current configuration, the pumps turn on too soon, diverting flow to the basin when the Shoal Creek Plant could still accommodate more. As such, plant operating personnel operate the pumps manually. To provide better control and operations of these facilities, variable frequency drives should be installed on the existing peak flow pumps. This will allow the pump speed to be automatically altered based on the water level in the channel. At lower water levels, the pumps will divert a lesser amount, but the diversion rate will increase if the water level continues to rise. This will provide more control over how much flow gets diverted to the peak flow basin and how much flow is going to the Shoal Creek Plant.

Table 8-2 provides a cost estimate for the proposed improvements to the peak flow pumps at the Shoal Creek Flow Equalization Basin.

**Table 8-2. Cost Estimate for Improvements to the Peak Flow Pumps**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                    | UNIT PRICE   | TOTAL                |
|-----------------------------------|----------|------|--------------------------------|--------------|----------------------|
| 1                                 | 3        | EA   | VFD's for Existing 40 HP Pumps | \$ 40,000.00 | \$ 120,000.00        |
| 2                                 | 1        | LS   | Modifications to Pump Controls | \$ 25,000.00 | \$ 25,000.00         |
| 3                                 | 1        | LS   | Replace Transducer             | \$ 5,000.00  | \$ 5,000.00          |
| <b>Construction Cost Estimate</b> |          |      |                                |              | <b>\$ 150,000.00</b> |

### 8.6.3 Raw Sewage Pumping Structure

#### **Facility Renovation – High Priority**

The current firm capacity of the raw sewage pumping structure of 3.0 MGD is insufficient for current and future Shoal Creek max month and peak flow conditions. While peak flow equalization is available, additional pumping capacity is recommended for accommodating max month and peak flows for both current and future Shoal Creek flows. Also, considering the condition of the pumps, replacement and renovation of the existing facilities are recommended.

The proposed improvements would involve installing submersible pumps in the two existing 8' diameter wet wells. Considering future flows for Shoal Creek alone, three pumps capable of producing 3,000 gpm each would provide a firm capacity of 6,000 gpm (8.64 MGD) with one pump out of service. This would provide more than adequate pumping capacity for future peak flows. Two pumps would be installed in one existing wet well and one pump in the other with a spot for a fourth pump. Each pump would be equipped with a VFD to allow for more efficient operation. Table 8-3 provides a cost estimate for these improvements.

**Table 8-3. Cost Estimate for Raw Sewage Pump Station Improvements**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                      | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|----------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Submersible Pumps                | \$ 230,000.00 | \$ 230,000.00        |
| 2                                 | 1        | LS   | Pump Controls                    | \$ 130,000.00 | \$ 130,000.00        |
| 3                                 | 1        | LS   | Removal of Existing Improvements | \$ 10,000.00  | \$ 10,000.00         |
| 4                                 | 1        | LS   | Jib Crane                        | \$ 25,000.00  | \$ 25,000.00         |
| 5                                 | 1        | LS   | Magnetic Flow Meter and Pit      | \$ 40,000.00  | \$ 40,000.00         |
| 6                                 | 1        | LS   | Misc. Piping and Valving         | \$ 50,000.00  | \$ 50,000.00         |
| 7                                 | 1        | LS   | Misc. Renovation Work            | \$ 50,000.00  | \$ 50,000.00         |
| 8                                 | 1        | LS   | Electrical                       | \$ 30,000.00  | \$ 30,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                  |               | <b>\$ 565,000.00</b> |

#### 8.6.4 Inlet Structure

##### **Replace Slide Gates and Bar Screens – Medium Priority**

As described previously, the existing slide gates and bar screens in the Inlet Structure need replacement. Table 8-4 provides a cost estimate for the replacement of these items.

**Table 8-4. Cost Estimate for Inlet Structure Replacements**

| ITEM | QUANTITY | UNIT | DESCRIPTION                       | UNIT PRICE   | TOTAL               |
|------|----------|------|-----------------------------------|--------------|---------------------|
| 1    | 2        | EA   | Replace Slide Gates               | \$ 20,000.00 | \$ 40,000.00        |
| 2    | 1        | LS   | Replace Bar Screens               | \$ 15,000.00 | \$ 15,000.00        |
|      |          |      | <b>Construction Cost Estimate</b> |              | <b>\$ 55,000.00</b> |

##### **Septic Hauler Dumping – Medium Priority**

Another concern at the inlet structure is the waste being dumped from septic haulers ahead of the raw sewage pumps which is likely causing excess buildup of debris on the bar screens. Based on data provided by the City, approximately 74,023 gallons of hauled waste were dumped at the treatment plant between December 2022 and January 2023. For this amount, the City was paid approximately \$14,880 which equates to approximately \$0.20 per gallon.

One concern with this septic dumping is the fact that the dump location is ahead of the raw sewage pumps. There is a manual bar screen at the dump site. However, it is unlikely that this screen catches all solids material which is evident by the material caught by the bar screens at the inlet structure. While not as easily quantified, the excess wear on the pumps caused by handling the septic debris reduces the life of the pumps, causing increased replacement and maintenance costs. Plant personnel have also indicated that allowing septic haulers to dump takes time away from other duties.

Considering the small amount of revenue generated, which is actually less considering the other factors discussed, it does not appear that allowing septic haulers to dump at the plant produces a meaningful net positive impact on facility operations and financials. It is likely to be a net negative impact, though not a drastic one. Considering this, it is recommended that the City consider revising the current conditions for receiving waste from septic haulers.

### **Grit Removal Facilities – Low Priority**

Construction of a grit removal structure is another consideration for improvements to the facilities. While more likely to be considered a low priority improvement, constructing a grit removal structure is beneficial to plant operations by limiting the amount of solids and grit material that is allowed to make its way through the plant. This reduces the wear on various components of the plant, decreases maintenance, and also improves plant efficiency by mitigating capacity loss due to sediment.

The influent line before the raw sewage pumps is approximately 15' deep. There is also very little room between the raw sewage pumps and the Inlet structure for a grit removal facility to be installed. Considering these factors, it is more reasonable to install a grit removal facility after the raw sewage pumps. More precisely, it appears that the facility could be added to the west side of the existing inlet structure. The existing facility would be modified to direct flow from the western influent channel to the new grit facility. Flow would pass through the grit chamber and back into the existing splitter box upstream of the existing weirs. Table 8-5 provides a cost estimate for the construction of the new facility and the modifications to the existing inlet structure.

**Table 8-5. Cost Estimate for Grit Removal Facility**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|-------------------------------------|---------------|----------------------|
| 1                                 | 80       | CY   | Excavation                          | \$ 12.00      | \$ 960.00            |
| 2                                 | 20       | CY   | Backfill                            | \$ 15.00      | \$ 300.00            |
| 3                                 | 1        | LS   | Demo Concrete Wall                  | \$ 5,000.00   | \$ 5,000.00          |
| 4                                 | 37       | CY   | Concrete                            | \$ 1,000.00   | \$ 37,000.00         |
| 5                                 | 1        | LS   | Connect 36" DIP to Existing Channel | \$ 15,000.00  | \$ 15,000.00         |
| 6                                 | 3        | EA   | Slide Gates                         | \$ 15,000.00  | \$ 45,000.00         |
| 7                                 | 1        | EA   | 36" Dia. Sluice Gate                | \$ 25,000.00  | \$ 25,000.00         |
| 8                                 | 40       | LF   | 36" DIP                             | \$ 500.00     | \$ 20,000.00         |
| 9                                 | 100      | LF   | 12" DIP                             | \$ 300.00     | \$ 30,000.00         |
| 10                                | 1        | LS   | Surface Restoration                 | \$ 5,000.00   | \$ 5,000.00          |
| 11                                | 1        | LS   | Grit Removal Equipment              | \$ 500,000.00 | \$ 500,000.00        |
| 12                                | 1        | EA   | Weir Gate                           | \$ 40,000.00  | \$ 40,000.00         |
| 13                                | 1        | LS   | Existing Weir Modifications         | \$ 10,000.00  | \$ 10,000.00         |
| 14                                | 1        | LS   | Electrical                          | \$ 110,000.00 | \$ 110,000.00        |
| 15                                | 1        | LS   | Site Work                           | \$ 10,000.00  | \$ 10,000.00         |
| 16                                | 75       | LF   | Hand Rail                           | \$ 150.00     | \$ 11,250.00         |
| 17                                | 240      | SF   | Grating                             | \$ 150.00     | \$ 36,000.00         |
| 18                                | 30       | LF   | Side Walk                           | \$ 80.00      | \$ 2,400.00          |
| 19                                | 1        | LS   | Misc Modifications                  | \$ 20,000.00  | \$ 20,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 922,910.00</b> |

### 8.6.5 Oxidation Ditches

#### **Install Retrievable Fine Bubble Diffusers – High Priority**

Considering the condition of the existing Hydro Rotors and the fact that they are not able to supply adequate oxygen for all current and future conditions, replacement of the rotors should be considered a high priority. For a retrofit installation in the existing ditches, retrievable fine bubble diffusers are recommended. The main benefit of these types of diffusers is how much easier they are to maintain. As opposed to a fixed system, whether that be discs or tubes, the retrieval systems are mounted to racks and attached to a guide rail that allows them to be removed from the surface with minimal effort. Another benefit is the efficiency of the system. Being fine bubble allows for greater oxygen transfer efficiency. Further, the use of blowers operating on variable frequency drives and controlled by a DO probe allows for a much more efficient delivery of oxygen to the system.

The equation below can be used to calculate SOR requirements for diffused air systems.

$$SOR = \frac{(AOR)(C_s)}{(\alpha)(F)(\theta^{(T-20)})[(\beta)(C_{SC} - C_L)]}$$

Where:

- SOR is Standard Oxygen Requirement
- AOR is Actual Oxygen Requirement
- $\alpha$  (0.85) is the Oxygen Transfer Correction Factor
- $\beta$  (0.95) is the Salinity – Surface Tension Correction Factor
- $\theta$  (1.024) is the Oxygen Transfer Coefficient
- T (12) is Degrees Celsius Temperature of Water
- $C_{SC}$  (10.5) is the Dissolved Oxygen Concentration at 40% depth at the site elevation and temperature in mg/L
- $C_s$  (9.02) is the Dissolved Oxygen Saturation Concentration in clean water at 20 Degrees C in mg/L
- $C_L$  (2.00) is the Operating Dissolved Oxygen Concentration in mg/L
- F (0.85) is the fouling factor

Considering the AOR requirements for Shoal Creek's current and future conditions established in Table 7-1 and the above equation, Table 8-6 provides diffused air SOR values for the Shoal Creek Plant.

**Table 8-6. Shoal Creek Plant Diffused Air SOR**

|                       | SOR (lb/hr) |
|-----------------------|-------------|
| <b>Current (2023)</b> | 1042        |
| <b>Future (2043)</b>  | 1260        |

Table 8-7 provides a construction cost estimate for the removal of the existing aeration equipment and the installation of retrievable diffuser racks as described.

**Table 8-7. Cost Estimate for Installation of Retrievable Diffusers**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                    | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|--------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Removal of Existing Equipment  | \$ 25,000.00  | \$ 25,000.00           |
| 2                                 | 1        | LS   | Removal of Sediment in Ditches | \$ 40,000.00  | \$ 40,000.00           |
| 3                                 | 250      | LF   | Air Piping                     | \$ 500.00     | \$ 125,000.00          |
| 4                                 | 4        | EA   | Blowers                        | \$ 125,000.00 | \$ 500,000.00          |
| 5                                 | 30       | CY   | Concrete Pads                  | \$ 1,000.00   | \$ 30,000.00           |
| 6                                 | 8        | EA   | Mixers                         | \$ 40,000.00  | \$ 320,000.00          |
| 7                                 | 24       | EA   | Diffuser Racks                 | \$ 40,000.00  | \$ 960,000.00          |
| 8                                 | 1        | LS   | DO Probe                       | \$ 15,000.00  | \$ 15,000.00           |
| 9                                 | 4        | EA   | VFD and Cabinet                | \$ 40,000.00  | \$ 160,000.00          |
| 10                                | 1500     | LF   | Handrail                       | \$ 150.00     | \$ 225,000.00          |
| 11                                | 1        | LS   | Pre-Engineered Shelter         | \$ 15,000.00  | \$ 15,000.00           |
| 12                                | 1        | LS   | Electrical                     | \$ 300,000.00 | \$ 300,000.00          |
| <b>Construction Cost Estimate</b> |          |      |                                |               | <b>\$ 2,715,000.00</b> |

### **Increase Oxidation Ditch Drain Size – Low Priority**

The existing 6" lines out of the oxidation ditches that drain back to the head of the plant are reported to be undersized by plant personnel and thus drain the ditches slowly. To increase the rate at which the ditches can be drained, replacing the existing 6" lines with 10" lines is proposed.

Table 8-8 provides a cost estimate for increasing the size of these lines.

**Table 8-8. Cost Estimate for Oxidation Ditch Drain Line Replacement**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                              | UNIT PRICE   | TOTAL                |
|-----------------------------------|----------|------|------------------------------------------|--------------|----------------------|
| 1                                 | 400      | LF   | 10" DIP                                  | \$ 225.00    | \$ 90,000.00         |
| 2                                 | 2        | EA   | 10" Plug Valve                           | \$ 6,000.00  | \$ 12,000.00         |
| 3                                 | 2        | EA   | Install 10" Drain in Oxidation Ditch     | \$ 15,000.00 | \$ 30,000.00         |
| 4                                 | 1        | LS   | Connection to Diversion Splitter Manhole | \$ 10,000.00 | \$ 10,000.00         |
| 5                                 | 400      | LF   | Crushed Stone Pavement Replacement       | \$ 30.00     | \$ 12,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                          |              | <b>\$ 154,000.00</b> |

### **8.6.6 Secondary Clarifiers**

### **Install Center Feed Equipment – High Priority**

The condition of the existing clarifier skirts requires that replacement be considered in the near future. More so though, the peripheral feed type of the current facilities is of a dated design. To provide for easier operation and maintenance of the clarifier facilities in addition to simply replacing equipment that has passed the end of its useful life, the installation of center feed type clarification equipment in the existing clarifier basins is proposed. Table 8-9 provides a cost estimate for replacing the existing clarifier equipment with new, center feed equipment.

**Table 8-9. Cost Estimate for Installation of Center Feed Clarifier Equipment**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                    | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|--------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Removal of Existing Equipment  | \$ 25,000.00  | \$ 25,000.00           |
| 2                                 | 1        | LS   | Cleaning of Clarifiers         | \$ 10,000.00  | \$ 10,000.00           |
| 3                                 | 1        | LS   | Clarifier Equipment & Controls | \$ 750,000.00 | \$ 750,000.00          |
| 4                                 | 450      | LF   | Handrail                       | \$ 100.00     | \$ 45,000.00           |
| 5                                 | 1        | LS   | Misc. Piping                   | \$ 50,000.00  | \$ 50,000.00           |
| 6                                 | 1        | LS   | Misc. Repairs                  | \$ 30,000.00  | \$ 30,000.00           |
| 7                                 | 1        | LS   | Retrofit Launderers            | \$ 40,000.00  | \$ 40,000.00           |
| 8                                 | 1        | LS   | Electrical                     | \$ 100,000.00 | \$ 100,000.00          |
| <b>Construction Cost Estimate</b> |          |      |                                |               | <b>\$ 1,050,000.00</b> |



## 8.6.7 Return Activated and Waste Activated Pump Station

### **Renovation of RAS/WAS Pump Station – High Priority**

The condition of the existing facilities is such that renovation is recommended. Similar to the proposed improvements to the raw sewage pumping structure, the conversion to submersible pumps is recommended here as well. Each pump would be equipped with VFD to allow for better control of RAS and more efficient operation. Assuming a RAS rate of 0.75 times the future average daily flow of 2.9 MGD, a firm capacity of approximately 1,550 gpm is required. To achieve this, two pumps capable of producing approximately 1,550 gpm at 30' TDH would be installed. Considering the existing wet wells are two 30" ductile iron pipes, it is expected that two new 4' diameter concrete wet wells will need to be constructed. Table 8-10 provides a cost estimate for renovating the RAS/WAS Pump Station.

**Table 8-10. Cost Estimate for Renovation of RAS/WAS Pump Station**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                             | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-----------------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Submersible Pumps                       | \$ 230,000.00 | \$ 230,000.00          |
| 2                                 | 1        | LS   | Pump Controls                           | \$ 130,000.00 | \$ 130,000.00          |
| 3                                 | 1        | LS   | Removal of Existing Improvements        | \$ 10,000.00  | \$ 10,000.00           |
| 4                                 | 2        | EA   | 4' Dia. WW                              | \$ 50,000.00  | \$ 100,000.00          |
| 5                                 | 2        | EA   | Valve Pit, Valves and Piping            | \$ 125,000.00 | \$ 250,000.00          |
| 6                                 | 1        | LS   | Jib Crane                               | \$ 25,000.00  | \$ 25,000.00           |
| 7                                 | 1        | LS   | Connection to Existing 24" Dia. DIP     | \$ 15,000.00  | \$ 15,000.00           |
| 8                                 | 2        | EA   | Install Plug Valve                      | \$ 15,000.00  | \$ 30,000.00           |
| 9                                 | 2        | LS   | Magnetic Flow Meter and Pit             | \$ 40,000.00  | \$ 80,000.00           |
| 10                                | 1        | LS   | Misc. Site Piping and Modifications     | \$ 50,000.00  | \$ 50,000.00           |
| 11                                | 1        | LS   | Surface Restoration and Misc. Site Work | \$ 20,000.00  | \$ 20,000.00           |
| 12                                | 1        | LS   | Electrical                              | \$ 70,000.00  | \$ 70,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                         |               | <b>\$ 1,010,000.00</b> |

### 8.6.8 Sludge Storage and Disposal

#### **Replace Aerators and Decant Valving – Low Priority**

While still operable, the floating aerators in the sludge holding tanks are nearing the end of their useful life and should be considered for replacement. The decant valves at the sludge holding tanks are deteriorating and will need to be replaced in the future. Table 8-11 provides a cost estimate for these improvements.

**Table 8-11. Cost Estimate for Replacing Floating Aerators and Decant Valving**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                           | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|---------------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Removal of Existing Improvements      | \$ 15,000.00  | \$ 15,000.00         |
| 2                                 | 3        | EA   | Install Floating Aerator              | \$ 100,000.00 | \$ 300,000.00        |
| 3                                 | 3        | EA   | Replace Decant Valving at Sludge Tank | \$ 20,000.00  | \$ 60,000.00         |
| 4                                 | 1        | LS   | Sludge Removal                        | \$ 70,000.00  | \$ 70,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                       |               | <b>\$ 445,000.00</b> |

#### **Construct Centrifuge Sludge Handling Facility – Low Priority**

Sludge is currently stored and disposed of by land application. Should the City decide to alter the method of sludge handling, the installation of a centrifuge is a viable option. When using a centrifuge, sludge is mixed in line with a small quantity of polymer to form a floc and is then pumped into a centrifuge that spins at a high speed, pressing the sludge against a screen. This allows the water (centrate) to move through and be discharged back to the treatment stream while the sludge is retained. The sludge cake is then augured to the end opposite of which the centrate is exiting and dropped into a hopper to be conveyed away from the centrifuge.

In addition to the centrifuge equipment, a centrifuge building to house the centrifuge, polymer feed system, and conveyor equipment would need to be constructed. A compost pad with a roof will be needed to store dried solids material. Anticipating that the centrifuge equipment would be constructed near the two smaller sludge holding tanks, one of these tanks would serve as the homogenizing tank from which sludge is pumped into the centrifuge. A mixer would be installed in the tank to achieve uniform consistency. New pumps would be installed to pull sludge from this tank. It is anticipated that the decant from the centrifuge will go to the existing pump station that currently handles decant from the existing sludge holding tanks. Table 8-12 provides an estimated construction cost for the installation of a centrifuge.

**Table 8-12. Cost Estimate for Centrifuge Sludge Handling Facility**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                      | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|----------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Centrifuge Equipment             | \$ 450,000.00 | \$ 450,000.00          |
| 2                                 | 1        | LS   | Centrifuge Installation          | \$ 225,000.00 | \$ 225,000.00          |
| 3                                 | 1        | LS   | Sludge Polymer Feed System       | \$ 60,000.00  | \$ 60,000.00           |
| 4                                 | 1        | LS   | Finished Sludge Conveyor System  | \$ 140,000.00 | \$ 140,000.00          |
| 5                                 | 400      | SF   | Sludge Pump Building             | \$ 250.00     | \$ 100,000.00          |
| 6                                 | 800      | SF   | Centrifuge Building              | \$ 250.00     | \$ 200,000.00          |
| 7                                 | 1        | LS   | Sludge and Grinder Pumps         | \$ 140,000.00 | \$ 140,000.00          |
| 8                                 | 1        | LS   | Mixer and Controls               | \$ 75,000.00  | \$ 75,000.00           |
| 9                                 | 1        | LS   | Misc. Piping for Sludge Handling | \$ 80,000.00  | \$ 80,000.00           |
| 10                                | 10000    | SF   | Compost Pad                      | \$ 12.00      | \$ 120,000.00          |
| 11                                | 1        | LS   | Compost Pad Roof Structure       | \$ 100,000.00 | \$ 100,000.00          |
| 12                                | 1        | LS   | Sludge Removal                   | \$ 15,000.00  | \$ 15,000.00           |
| 13                                | 1        | LS   | Painting                         | \$ 50,000.00  | \$ 50,000.00           |
| 14                                | 1        | LS   | Electrical                       | \$ 260,000.00 | \$ 260,000.00          |
| 15                                | 1        | LS   | Sitework                         | \$ 60,000.00  | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                  |               | <b>\$ 2,075,000.00</b> |

Based on information provided by the City, it is estimated that the current sludge hauling operation for both plants costs approximately \$60,940 per year including labor, power, materials, maintenance, etc. Assuming half of those costs can be attributed to Shoal Creek, the annual cost to haul sludge for the Shoal Creek plant is \$30,470. A breakdown of these total costs is provided in Appendix E. It can be assumed that the installation of a centrifuge would cut the sludge handling O&M cost for Shoal Creek in half bringing an annual cost savings of approximately \$15,000. Comparing this cost savings to the estimated construction cost, the payback period associated with the installation of a centrifuge is hard to justify from solely a financial perspective.

With a centrifuge, there will be a reduction in the overall amount of sludge that has to be disposed of from the treatment plant. However, the handling and disposal of solid sludge material as opposed to liquid, will require some changes in operations. One such consideration is that it may be more difficult to find a third party to dispose of the solid material rather than liquid. These and other factors are difficult to quantify. If the installation of a centrifuge is something the City wishes to pursue, it is recommended that more discussions take place to further look into the details of the operation relative to the City's expectations and needs.

## 8.6.9 Filtration

### **Construct Tertiary Filters – Low Priority**

Under circumstances where adequate phosphorus removal is not able to be achieved biologically, then sufficient removal will have to be attained through chemical addition to meet future effluent requirements. In that case, tertiary filters will likely need to be constructed to further remove phosphorus-binding solids from the treated clarifier effluent.

Considering the available space on site, the location of the filters would need to be west of the existing oxidation ditches. This will require a portion of the existing pond to be filled. Further, there is not sufficient elevation drop between the existing clarifiers and the existing UV structure to accommodate the installation of the filters. As such, a new UV structure would need to be constructed further down the outfall sewer. To handle future peak flows, the proposed filters would need a maximum capacity of at least 7.0 MGD.

Table 8-13 provides a cost estimate for the construction of the described tertiary filters.

**Table 8-13. Cost Estimate for Construction of Tertiary Filters**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                 | UNIT PRICE      | TOTAL                  |
|-----------------------------------|----------|------|-----------------------------|-----------------|------------------------|
| 1                                 | 16440    | CY   | Excavation from Borrow Pit  | \$ 8.00         | \$ 131,520.00          |
| 2                                 | 12000    | CY   | Backfill Pond               | \$ 10.00        | \$ 120,000.00          |
| 3                                 | 1700     | CY   | Fill Around Filter Building | \$ 10.00        | \$ 17,000.00           |
| 4                                 | 250      | CY   | Concrete                    | \$ 1,000.00     | \$ 250,000.00          |
| 5                                 | 1        | LS   | Filter Equipment            | \$ 1,600,000.00 | \$ 1,600,000.00        |
| 6                                 | 1        | LS   | Filter Installation         | \$ 400,000.00   | \$ 400,000.00          |
| 7                                 | 1        | LS   | Pumps and Controls          | \$ 120,000.00   | \$ 120,000.00          |
| 8                                 | 2500     | SF   | Filter Building             | \$ 150.00       | \$ 375,000.00          |
| 9                                 | 1        | LS   | Overhead Crane System       | \$ 40,000.00    | \$ 40,000.00           |
| 10                                | 1        | LS   | Site Piping                 | \$ 100,000.00   | \$ 100,000.00          |
| 11                                | 1        | LS   | Site Grading                | \$ 35,000.00    | \$ 35,000.00           |
| 12                                | 1        | LS   | Railing & Misc. Metals      | \$ 40,000.00    | \$ 40,000.00           |
| 13                                | 1        | LS   | Electrical                  | \$ 800,000.00   | \$ 800,000.00          |
| 14                                | 3200     | SF   | Crushed Stone Surfacing     | \$ 10.00        | \$ 32,000.00           |
| 15                                | 1        | LS   | Chemical Feed Equipment     | \$ 60,000.00    | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                             |                 | <b>\$ 4,120,520.00</b> |

### 8.6.10 UV Disinfection

#### **Replace Existing UV Equipment – Low Priority**

As indicated previously, the existing channels cannot accommodate the installation of slanted UV disinfection equipment. New channels would have to be constructed to allow for this type of equipment to be installed. Considering this, constructing new channels to install a different type of equipment is not thought to be necessary when the existing equipment is adequate for current and future flows. At the time the existing UV equipment needs replacement, simply replacing the equipment is thought to be the more reasonable option. Given that the existing equipment is older, the installation of new UV equipment would require some minor modifications to the existing channels to allow for installation.

If and when the time comes that the existing channels cannot accommodate flows, further consideration can be given to either adding another channel or construction of all new ones to allow for the installation of different UV equipment. Table 8-14 provides a cost estimate for the replacement of the existing UV equipment.

**Table 8-14. Cost Estimate for Replacement of UV Equipment**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                        | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|------------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Removal of Existing Improvements   | \$ 30,000.00  | \$ 30,000.00         |
| 2                                 | 10       | CY   | Concrete for Channel Modifications | \$ 1,000.00   | \$ 10,000.00         |
| 3                                 | 1        | LS   | Replace UV Equipment and Controls  | \$ 450,000.00 | \$ 450,000.00        |
| 4                                 | 1        | LS   | Install Effluent Control Weirs     | \$ 25,000.00  | \$ 25,000.00         |
| 5                                 | 1        | LS   | Electrical                         | \$ 50,000.00  | \$ 50,000.00         |
| 6                                 | 1        | LS   | Misc. Modifications                | \$ 35,000.00  | \$ 35,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                    |               | <b>\$ 600,000.00</b> |

#### 8.6.11 Electrical Facilities

##### **Install Automatic Transfer Switch – High Priority**

The generator for the Shoal Creek Plant currently does not have an ATS which requires the switch to backup power to be a manual operation. It is recommended that an ATS be installed on the existing generator so that backup power turns on automatically in the event of a power failure. Table 8-15 provides a cost estimate for the installation of an ATS on the existing generator for the Shoal Creek Plant.

**Table 8-15. Cost Estimate for Installing ATS**

| ITEM | QUANTITY | UNIT | DESCRIPTION                       | UNIT PRICE   | TOTAL               |
|------|----------|------|-----------------------------------|--------------|---------------------|
| 1    | 1        | LS   | Install ATS                       | \$ 50,000.00 | \$ 50,000.00        |
|      |          |      | <b>Construction Cost Estimate</b> |              | <b>\$ 50,000.00</b> |

### 8.6.12 Improvement Cost Estimate Summary

Table 8-16 provides a summary of the construction costs presented in Section 8.6 for improvements to the existing Shoal Creek Plant. Table 8-16 groups these improvements by priority to present a total estimated construction cost for high, medium, and low priority improvements, as well as a total estimated cost for all improvements. Given that most of the proposed improvements are aimed at providing improved operation and functionality to the existing system, it is not anticipated that there will be an increase in operation and maintenance costs. On the contrary, it is more likely that O&M costs will be decreased. As such, the estimated construction costs presented also reflect the estimated present worth costs.

**Table 8-16. Summary of Cost Estimates for Improvements to Existing Facilities**

| Improvement                                                              | Construction Cost       |
|--------------------------------------------------------------------------|-------------------------|
| <b>High Priority Improvements</b>                                        |                         |
| Raw Sewage Pumping Structure Renovation                                  | \$ 565,000.00           |
| Oxidation Ditch Retrievable Diffuser Installation                        | \$ 2,715,000.00         |
| Clarifier Center Feed Equipment Installation                             | \$ 1,050,000.00         |
| RAS/WAS Pump Station Renovation                                          | \$ 1,010,000.00         |
| Backup Generator ATS Installation                                        | \$ 50,000.00            |
| <b>Total Estimated Construction Cost of High Priority Improvements</b>   | <b>\$ 5,390,000.00</b>  |
| <b>Medium Priority Improvements</b>                                      |                         |
| Crowder Lift Station Renovation                                          | \$ 1,092,000.00         |
| Inlet Structure Slide Gates and Bar Screens Replacement                  | \$ 55,000.00            |
| Reevaluate Septic Dumping at Plant                                       | N/A                     |
| <b>Total Estimated Construction Cost of Medium Priority Improvements</b> | <b>\$ 1,147,000.00</b>  |
| <b>Low Priority Improvements</b>                                         |                         |
| Peak Flow Pump Control Improvements                                      | \$ 150,000.00           |
| Grit Removal Facilities Construction                                     | \$ 922,910.00           |
| Oxidation Ditch Drain Improvements                                       | \$ 154,000.00           |
| Sludge Storage Aerator and Decant Valving Replacement                    | \$ 445,000.00           |
| Centrifuge Sludge Handling Facility Construction                         | \$ 2,075,000.00         |
| Tertiary Filter Construction                                             | \$ 4,120,520.00         |
| UV Disinfection Equipment Replacement                                    | \$ 600,000.00           |
| <b>Total Estimated Construction Cost of Low Priority Improvements</b>    | <b>\$ 8,467,430.00</b>  |
| <b>Total Estimated Construction Cost of All Improvements</b>             | <b>\$ 15,004,430.00</b> |

## 8.7 Improvements for Treating Crowder Flow

In addition to the improvements described in Section 8.6, additional improvements will also need to be implemented if the Shoal Creek Plant is to treat wastewater flow from the Crowder Plant. Like Section 8.6, this section describes the various improvements needed and provides associated cost estimates for construction of the proposed improvements.

### 8.7.1 Flow Equalization Basin

#### **Reroute Crowder Pressure Sewer Line – High Priority**

If Shoal Creek treats wastewater from the Crowder Plant, flow from Crowder would not be screened with the current piping configuration. The current location of the pressure sewer from Crowder, at the inlet structure, is after all of Shoal Creek's screening facilities. To address this, it is recommended that the 16" pressure sewer from Crowder be rerouted at the Shoal Creek flow equalization basin to discharge to a manhole just upstream of the mechanical screen there. This way, all flow entering the Shoal Creek Plant will have been screened by the mechanical screen. Table 8-17 provides a cost estimate for rerouting the pressure sewer.

**Table 8-17. Cost Estimate for Crowder Pressure Sewer Reroute**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                  | UNIT PRICE   | TOTAL               |
|-----------------------------------|----------|------|------------------------------|--------------|---------------------|
| 1                                 | 1        | EA   | Connect to Existing 16" Line | \$ 15,000.00 | \$ 15,000.00        |
| 2                                 | 100      | LF   | 16" Dia. PVC Pressure Sewer  | \$ 200.00    | \$ 20,000.00        |
| 3                                 | 1        | EA   | Connect to Existing Manhole  | \$ 12,000.00 | \$ 12,000.00        |
| 4                                 | 2        | EA   | 16" Plug Valves              | \$ 15,000.00 | \$ 30,000.00        |
| <b>Construction Cost Estimate</b> |          |      |                              |              | <b>\$ 77,000.00</b> |



## 8.7.2 Raw Sewage Pumping Structure

### **Facility Renovation – High Priority**

Additional capacity will be needed at the raw sewage pumping structure if Shoal Creek is to treat flow from Crowder. If planning to treat flow from the Crowder Plant, a fourth pump would be needed to accommodate peak flows. This would provide a firm capacity of 9,000 gpm (12.96 MGD). Renovating the raw sewage pumping structure as described should be considered a high priority if Shoal Creek is to treat flow from Crowder. Table 8-18 provides a cost estimate for all the same renovation work described in Section 8.6.3 plus the addition of a fourth pump.

**Table 8-18. Cost Estimate for Raw Sewage PS Improvements**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                      | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|----------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Submersible Pumps                | \$ 310,000.00 | \$ 310,000.00        |
| 2                                 | 1        | LS   | Pump Controls                    | \$ 130,000.00 | \$ 130,000.00        |
| 3                                 | 1        | LS   | Removal of Existing Improvements | \$ 10,000.00  | \$ 10,000.00         |
| 4                                 | 1        | LS   | Jib Crane                        | \$ 25,000.00  | \$ 25,000.00         |
| 5                                 | 1        | LS   | Magnetic Flow Meter and Pit      | \$ 40,000.00  | \$ 40,000.00         |
| 6                                 | 1        | LS   | Misc. Piping and Valving         | \$ 50,000.00  | \$ 50,000.00         |
| 7                                 | 1        | LS   | Misc. Renovation Work            | \$ 50,000.00  | \$ 50,000.00         |
| 8                                 | 1        | LS   | Electrical                       | \$ 30,000.00  | \$ 30,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                  |               | <b>\$ 645,000.00</b> |

### 8.7.3 Inlet Structure

#### **Splitter Box Improvements and Grit Removal Facility – High Priority**

While the current configuration of the inlet structure may create somewhat uneven flow distribution between the existing treatment trains for various reasons, it is not necessarily a cause for concern. However, with the addition of more treatment trains to accommodate flow from Crowder, constructing improvements to control the flow split between facilities will be necessary. Further, it is recommended that a grit removal facility be added as well at the same time as improvements to the inlet structure. This will prevent the need for another addition to the existing facility in the future, saving cost and providing a more cohesive design. The design for the proposed facility is nearly identical to what is described in Section 8.6.4, except it sees the addition of two flow split channels west of the existing ones, just after the proposed grit facility. Table 8-19 provides a construction cost estimate for the proposed improvements.

**Table 8-19. Cost Estimate for Splitter Box and Grit Facility Improvements**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-------------------------------------|---------------|------------------------|
| 1                                 | 100      | CY   | Excavation                          | \$ 12.00      | \$ 1,200.00            |
| 2                                 | 40       | CY   | Backfill                            | \$ 15.00      | \$ 600.00              |
| 3                                 | 1        | LS   | Demo Concrete Wall                  | \$ 8,000.00   | \$ 8,000.00            |
| 4                                 | 64       | CY   | Concrete                            | \$ 1,000.00   | \$ 64,000.00           |
| 5                                 | 1        | LS   | Connect 36" DIP to Existing Channel | \$ 15,000.00  | \$ 15,000.00           |
| 6                                 | 3        | EA   | Slide Gates                         | \$ 25,000.00  | \$ 75,000.00           |
| 7                                 | 2        | EA   | 4'x6' Slide Gate                    | \$ 30,000.00  | \$ 60,000.00           |
| 8                                 | 1        | EA   | 36" Dia. Sluice Gate                | \$ 25,000.00  | \$ 25,000.00           |
| 9                                 | 40       | LF   | 36" DIP                             | \$ 500.00     | \$ 20,000.00           |
| 10                                | 100      | LF   | 12" DIP                             | \$ 300.00     | \$ 30,000.00           |
| 11                                | 1        | LS   | Surface Restoration                 | \$ 5,000.00   | \$ 5,000.00            |
| 12                                | 1        | LS   | Grit Removal Equipment              | \$ 500,000.00 | \$ 500,000.00          |
| 13                                | 2        | EA   | 4'x3' Weir Gate                     | \$ 30,000.00  | \$ 60,000.00           |
| 14                                | 1        | EA   | 8'x3' Weir Gate                     | \$ 40,000.00  | \$ 40,000.00           |
| 15                                | 1        | LS   | Existing Weir Modifications         | \$ 10,000.00  | \$ 10,000.00           |
| 16                                | 1        | LS   | Electrical                          | \$ 100,000.00 | \$ 100,000.00          |
| 17                                | 1        | LS   | Site Work                           | \$ 10,000.00  | \$ 10,000.00           |
| 18                                | 75       | LF   | Handrail                            | \$ 150.00     | \$ 11,250.00           |
| 19                                | 240      | SF   | Grating                             | \$ 150.00     | \$ 36,000.00           |
| 20                                | 30       | LF   | Sidewalk                            | \$ 80.00      | \$ 2,400.00            |
| 21                                | 1        | LS   | Misc Modifications                  | \$ 20,000.00  | \$ 20,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 1,093,450.00</b> |

#### 8.7.4 *Biological Treatment and Clarification*

The existing oxidation ditches and clarifiers do not have sufficient capacity to accommodate the additional flow and loads from the Crowder Plant. To accommodate Crowder's flow, it is necessary to construct additional treatment trains as modifying the existing facilities to meet the increased demand is not practical.

##### **Concentric Basin Extended Aeration System (Phase I) – High Priority**

While the existing facilities are comprised of racetrack style, extended aeration oxidation ditch systems, and separate secondary clarifiers, a concentric style system presents a more efficient design. Due to its use of common walls between the outer oxidation ditch and the inner clarifier, a concentric basin design typically presents significant cost savings compared to systems with separate facilities.

In order to accommodate the projected future flows and loads with the additional flow from Crowder, two additional treatment trains of similar capacity to that of the existing two are proposed. If expansion to handle Crowder's flow is pursued, however, it will likely make sense to construct only a single additional train first, with considerations given for easy future expansion. Planning for construction of the second train would begin once flows and loads are seen increasing towards the projected values.

For Phase I, one concentric basin featuring a 162' diameter oxidation ditch with a 65' diameter inner clarifier would be required for proper biological treatment and clarification. The outer ring of the basin would contain retrievable fine bubble diffuser racks and submersible mixers to maintain velocity in the channel and provide mixing. The inner clarifier basin would have a stainless-steel clarifier mechanism that can be retrieved from the basin, allowing for the mechanism to be exchanged out without taking the entire clarifier offline.

The only space available for the construction of these facilities is the pond west of the existing facilities. As such, construction of additional treatment trains would require filling in this pond or a portion of it and further raising the grade to match that of the existing treatment site. To accomplish this, it is assumed that the area west of the pond as well as the portion of the pond not to be filled can serve as borrow areas for suitable fill material. Considering that it is not known with certainty if or how much of the material from these locations will be suitable for fill, it will be assumed that some fill material must be brought into the site. A geotechnical investigation will be required early in the planning process for these improvements to get a better understanding of the suitability of the soil and subsequently the estimated cost for earthwork.

Sludge would exit the new clarifier to a new RAS/WAS pump station connected to the basin. The pump stations would function in the same manner as the existing one for the other facilities. It would return a portion of the MLSS to the inlet structure with the ability to also waste to the larger sludge holding tank. The treated effluent would exit the clarifier into a junction box before heading to the UV disinfection structure.

Using the same equation from Section 0 for SOR and the AOR values for combined Shoal Creek and Crowder flows from Table 7-1, Table 8-20 provides SOR values for Shoal Creek and Crowder flows for a diffused air system.

**Table 8-20. Shoal Creek and Crowder Plant Diffused Air SOR**

|                       | SOR (lb/hr) |
|-----------------------|-------------|
| <b>Current (2023)</b> | 2034        |
| <b>Future (2043)</b>  | 2461        |

Presented in Table 8-21 are the design parameters for one proposed concentric basin extended aeration system. Table 8-22 provides a construction cost estimate for building the first treatment train (Phase I) to accommodate flow from Crowder.

**Table 8-21. Concentric Basin Design Parameters**

| Oxidation Ditch                                          |      |
|----------------------------------------------------------|------|
| Channel Width (ft)                                       | 47   |
| Channel Total Depth (ft)                                 | 14   |
| Channel Side Water Depth (ft)                            | 12   |
| Basin Outer Diameter (ft)                                | 162  |
| Basin Inner Diameter (ft)                                | 68   |
| Wall Thickness (ft)                                      | 1.5  |
| Basin Total Volume (MG)                                  | 1.78 |
| Basin Total Effective Volume (MG)                        | 1.52 |
| Max BOD <sub>5</sub> Capacity (lb BOD <sub>5</sub> /day) | 6110 |
| Peak Hydraulic Capacity (MGD)                            | 4.57 |
| Oxygen Supply Capacity (lb O <sub>2</sub> /hr)           | 625  |
| Clarifier                                                |      |
| Basin Diameter (ft)                                      | 65   |
| Basin Total Depth (ft)                                   | 14   |
| Basin Side Water Depth (ft)                              | 12   |
| Basin Surface Area (ft <sup>2</sup> )                    | 3318 |
| Basin Total Volume (MG)                                  | 0.35 |
| Basin Effective Volume (MG)                              | 0.30 |
| Hydraulic Capacity (MGD)                                 | 3.32 |

**Table 8-22. Cost Estimate for Concentric Basin Extended Aeration System (Phase I)**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-------------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Pond Dewatering                     | \$ 30,000.00  | \$ 30,000.00           |
| 2                                 | 47760    | CY   | Excavation from Borrow Pit          | \$ 8.00       | \$ 382,080.00          |
| 3                                 | 28500    | CY   | Off-Site Fill                       | \$ 30.00      | \$ 855,000.00          |
| 4                                 | 39800    | CY   | On-Site Fill                        | \$ 10.00      | \$ 398,000.00          |
| 5                                 | 1765     | CY   | Concrete (Basin, PS, & Blower Pads) | \$ 1,000.00   | \$ 1,765,000.00        |
| 6                                 | 510      | LF   | 24" DIP                             | \$ 400.00     | \$ 204,000.00          |
| 7                                 | 500      | LF   | 12" DIP                             | \$ 300.00     | \$ 150,000.00          |
| 8                                 | 100      | LF   | 10" DIP                             | \$ 250.00     | \$ 25,000.00           |
| 9                                 | 500      | LF   | 6" DIP                              | \$ 150.00     | \$ 75,000.00           |
| 10                                | 1        | EA   | 4' Dia. Manhole                     | \$ 12,000.00  | \$ 12,000.00           |
| 11                                | 1        | LS   | RAS/WAS Pumps, Controls, Etc.       | \$ 200,000.00 | \$ 200,000.00          |
| 12                                | 1        | EA   | Davit Crane                         | \$ 6,000.00   | \$ 6,000.00            |
| 13                                | 1        | LS   | RAS/WAS PS Piping & Valving         | \$ 50,000.00  | \$ 50,000.00           |
| 14                                | 1        | LS   | Mag Meter and Meter Pit             | \$ 40,000.00  | \$ 40,000.00           |
| 15                                | 12       | EA   | Diffuser Racks                      | \$ 40,000.00  | \$ 480,000.00          |
| 16                                | 250      | LF   | Air Piping                          | \$ 500.00     | \$ 125,000.00          |
| 17                                | 2        | EA   | Blowers                             | \$ 125,000.00 | \$ 250,000.00          |
| 18                                | 4        | EA   | Mixers                              | \$ 40,000.00  | \$ 160,000.00          |
| 19                                | 1        | LS   | DO Probe                            | \$ 15,000.00  | \$ 15,000.00           |
| 20                                | 2        | EA   | VFD and Cabinet                     | \$ 40,000.00  | \$ 80,000.00           |
| 21                                | 1        | LS   | Clarifier Equipment                 | \$ 750,000.00 | \$ 750,000.00          |
| 22                                | 1        | LS   | Pre-Engineered Shelter              | \$ 15,000.00  | \$ 15,000.00           |
| 23                                | 1        | LS   | Coatings                            | \$ 40,000.00  | \$ 40,000.00           |
| 24                                | 1        | LS   | Misc. Metals                        | \$ 35,000.00  | \$ 35,000.00           |
| 25                                | 6        | EA   | Hydro Static Pressure Valves        | \$ 1,000.00   | \$ 6,000.00            |
| 26                                | 300      | LF   | 2" PVC Water Line                   | \$ 25.00      | \$ 7,500.00            |
| 27                                | 1        | EA   | Yard Hydrant                        | \$ 1,500.00   | \$ 1,500.00            |
| 28                                | 450      | SF   | Control Building                    | \$ 500.00     | \$ 225,000.00          |
| 29                                | 1        | LS   | Electrical                          | \$ 510,000.00 | \$ 510,000.00          |
| 30                                | 600      | LF   | Handrail                            | \$ 150.00     | \$ 90,000.00           |
| 31                                | 6000     | SF   | Crushed Stone Surfacing             | \$ 10.00      | \$ 60,000.00           |
| 32                                | 1        | LS   | Connection to Inlet Structure       | \$ 15,000.00  | \$ 15,000.00           |
| 33                                | 1        | LS   | Connect to Sludge Tank              | \$ 15,000.00  | \$ 15,000.00           |
| 34                                | 1        | LS   | Misc. Site Work                     | \$ 30,000.00  | \$ 30,000.00           |
| 35                                | 1        | LS   | Misc. Piping & Valving              | \$ 40,000.00  | \$ 40,000.00           |
| 36                                | 1        | LS   | Surface Restoration                 | \$ 20,000.00  | \$ 20,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 7,162,080.00</b> |

### **Concentric Basin Extended Aeration System (Phase II) – Low Priority**

As described, constructing the second concentric basin should not be pursued initially as current demands do not require it. However, flows and loads should be assessed progressing into the future to determine if and when the construction of Phase II should be implemented. The design of the second basin will be nearly identical to the first, with only slight variations due to orientation. Phase I will have been constructed with considerations for the addition of Phase II to provide some cost savings. However, it will be assumed that more fill material will need to be brought in for Phase II than for Phase I as less suitable on-site material will likely be available. Table 8-23 provides a construction cost estimate for the construction of the second basin.

**Table 8-23. Cost Estimate for Concentric Basin Extended Aeration System (Phase II)**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-------------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Pond Dewatering                     | \$ 20,000.00  | \$ 20,000.00           |
| 2                                 | 16800    | CY   | Excavation from Borrow Pit          | \$ 8.00       | \$ 134,400.00          |
| 3                                 | 56000    | CY   | Off-Site Fill                       | \$ 30.00      | \$ 1,680,000.00        |
| 4                                 | 14000    | CY   | On-Site Fill                        | \$ 10.00      | \$ 140,000.00          |
| 5                                 | 1765     | CY   | Concrete (Basin, PS, & Blower Pads) | \$ 1,000.00   | \$ 1,765,000.00        |
| 6                                 | 760      | LF   | 24" DIP                             | \$ 400.00     | \$ 304,000.00          |
| 7                                 | 150      | LF   | 12" DIP                             | \$ 300.00     | \$ 45,000.00           |
| 8                                 | 100      | LF   | 10" DIP                             | \$ 250.00     | \$ 25,000.00           |
| 9                                 | 150      | LF   | 6" DIP                              | \$ 150.00     | \$ 22,500.00           |
| 10                                | 1        | LS   | RAS/WAS Pumps, Controls, Etc.       | \$ 200,000.00 | \$ 200,000.00          |
| 11                                | 1        | EA   | Davit Crane                         | \$ 6,000.00   | \$ 6,000.00            |
| 12                                | 1        | LS   | RAS/WAS PS Piping & Valving         | \$ 50,000.00  | \$ 50,000.00           |
| 13                                | 12       | EA   | Diffuser Racks                      | \$ 40,000.00  | \$ 480,000.00          |
| 14                                | 250      | LF   | Air Piping                          | \$ 500.00     | \$ 125,000.00          |
| 15                                | 2        | EA   | Blowers                             | \$ 125,000.00 | \$ 250,000.00          |
| 16                                | 4        | EA   | Mixers                              | \$ 40,000.00  | \$ 160,000.00          |
| 17                                | 1        | LS   | Clarifier Equipment                 | \$ 750,000.00 | \$ 750,000.00          |
| 18                                | 1        | LS   | DO Probe                            | \$ 15,000.00  | \$ 15,000.00           |
| 19                                | 2        | EA   | VFD and Cabinet                     | \$ 40,000.00  | \$ 80,000.00           |
| 20                                | 1        | LS   | Pre-Engineered Shelter              | \$ 15,000.00  | \$ 15,000.00           |
| 21                                | 1        | LS   | Coatings                            | \$ 40,000.00  | \$ 40,000.00           |
| 22                                | 1        | LS   | Misc. Metals                        | \$ 35,000.00  | \$ 35,000.00           |
| 23                                | 6        | EA   | Hydro Static Pressure Valves        | \$ 1,000.00   | \$ 6,000.00            |
| 24                                | 100      | LF   | 2" PVC Water Line                   | \$ 25.00      | \$ 2,500.00            |
| 25                                | 1        | EA   | Yard Hydrant                        | \$ 1,500.00   | \$ 1,500.00            |
| 26                                | 1        | LS   | Electrical                          | \$ 510,000.00 | \$ 510,000.00          |
| 27                                | 600      | LF   | Handrail                            | \$ 150.00     | \$ 90,000.00           |
| 28                                | 6000     | SF   | Crushed Stone Surfacing             | \$ 10.00      | \$ 60,000.00           |
| 29                                | 1        | LS   | Connect to MH                       | \$ 5,000.00   | \$ 5,000.00            |
| 30                                | 1        | LS   | Connection to 12" DIP               | \$ 15,000.00  | \$ 15,000.00           |
| 31                                | 1        | LS   | Connect to 6" DIP                   | \$ 15,000.00  | \$ 15,000.00           |
| 32                                | 1        | LS   | Misc. Site Work                     | \$ 30,000.00  | \$ 30,000.00           |
| 33                                | 1        | LS   | Misc. Piping & Valving              | \$ 40,000.00  | \$ 40,000.00           |
| 34                                | 1        | LS   | Surface Restoration                 | \$ 20,000.00  | \$ 20,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 7,136,900.00</b> |

Table 8-24 provides an evaluation of the plant capacity relative to current and future combined Shoal Creek and Crowder conditions considering the additional treatment facilities. Values presented follow the same calculations described in Sections 0 and 8.6.6.

**Table 8-24. Expanded Facility Capacity Evaluation**

|                   |                                                      | Existing Facilities w/ Imp. | Existing Facilities w/ Imp. + 1 Basin | Existing Facilities w/ Imp. + 2 Basins |                                                               | Shoal Creek + Crowder Demand/ Requirement |        |
|-------------------|------------------------------------------------------|-----------------------------|---------------------------------------|----------------------------------------|---------------------------------------------------------------|-------------------------------------------|--------|
|                   |                                                      |                             |                                       |                                        |                                                               | Current                                   | Future |
| Oxidation Ditches | Hydraulic Capacity (MGD)                             | 9.0                         | 13.6                                  | 18.1                                   | Peak Flow (MGD)                                               | 10.5                                      | 12.7   |
|                   | BOD <sub>5</sub> Capacity (lb BOD <sub>5</sub> /day) | 12030                       | 18140                                 | 24250                                  | Max Month BOD <sub>5</sub> Loading (lb BOD <sub>5</sub> /day) | 17877                                     | 21631  |
|                   | Oxygen Supply Capacity (lb O <sub>2</sub> /hr)       | 1300                        | 1950                                  | 2600                                   | Max Month O <sub>2</sub> Demand (lb O <sub>2</sub> /hr)       | 2034                                      | 2461   |
| Clarifiers        | Hydraulic Capacity (MGD)                             | 6.6                         | 10.0                                  | 13.3                                   | Peak Flow (MGD)                                               | 10.5                                      | 12.7   |
|                   | Current Peak SLR (lb/day/sf)                         | 58                          | 39                                    | 29                                     | Max SLR (lb/day/sf)                                           | 40                                        |        |
|                   | Future Peak SLR (lb/day/sf)                          | 71                          | 47                                    | 35                                     |                                                               |                                           |        |
|                   | Weir Loading Rate at Current Peak (gpd/ft)           | 25710                       | 17140                                 | 12855                                  | Max Weir Loading Rate (gpd/ft)                                | 30000                                     |        |
|                   | Weir Loading Rate at Future Peak (gpd/ft)            | 31109                       | 20739                                 | 15554                                  |                                                               |                                           |        |



### 8.7.5 Sludge Storage and Disposal

#### **Construct Additional Sludge Storage – High Priority**

While the Shoal Creek Plant's existing sludge storage facilities have adequate capacity for current and future conditions for Shoal Creek, the facilities are not enough to accommodate flows from Crowder. As such, storage providing a minimum of 21 additional days of storage is required to have at least 120 days of storage. It is recommended that 30 days of additional storage be constructed. Future Shoal Creek and Crowder sludge generation is estimated to be approximately 7,760 gpd. At this rate, approximately 232,800 gallons of additional storage will be required. Considering space, it is proposed that the new tank be constructed in the open area near the two smaller sludge storage tanks. To achieve the necessary volume, it is recommended that a 65' diameter by 11' deep tank be constructed to be of similar depth to the existing two tanks.

Table 8-25 provides a cost estimate for the construction of the proposed sludge storage tank.

**Table 8-25. Cost Estimate for Sludge Storage Tank**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                  | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|------------------------------|---------------|----------------------|
| 1                                 | 2055     | CY   | Excavation                   | \$ 10.00      | \$ 20,550.00         |
| 2                                 | 1500     | CY   | Backfill                     | \$ 15.00      | \$ 22,500.00         |
| 3                                 | 273      | CY   | Concrete                     | \$ 1,000.00   | \$ 273,000.00        |
| 4                                 | 200      | LF   | 10" DIP                      | \$ 200.00     | \$ 40,000.00         |
| 5                                 | 2        | EA   | 10" Plug Valve               | \$ 6,000.00   | \$ 12,000.00         |
| 6                                 | 1        | EA   | Floating Aerator             | \$ 90,000.00  | \$ 90,000.00         |
| 7                                 | 1        | LS   | Decant Piping and Valving    | \$ 30,000.00  | \$ 30,000.00         |
| 8                                 | 6        | EA   | Hydro Static Pressure Valves | \$ 1,000.00   | \$ 6,000.00          |
| 9                                 | 1        | LS   | Electrical                   | \$ 150,000.00 | \$ 150,000.00        |
| 10                                | 1        | LS   | Pump Station Modifications   | \$ 150,000.00 | \$ 150,000.00        |
| 11                                | 1        | LS   | Platform                     | \$ 15,000.00  | \$ 15,000.00         |
| 12                                | 210      | LF   | Handrail                     | \$ 150.00     | \$ 31,500.00         |
| 13                                | 300      | LF   | Sidewalk                     | \$ 60.00      | \$ 18,000.00         |
| 14                                | 1        | LS   | Connect to Pump Station      | \$ 15,000.00  | \$ 15,000.00         |
| 15                                | 1        | LS   | Misc. Site Work              | \$ 20,000.00  | \$ 20,000.00         |
| 16                                | 1        | LS   | Misc. Piping & Valving       | \$ 20,000.00  | \$ 20,000.00         |
| 17                                | 1        | LS   | Surface Restoration          | \$ 15,000.00  | \$ 15,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                              |               | <b>\$ 928,550.00</b> |

### **Construct Centrifuge Sludge Handling Facility – Medium Priority**

Constructing a centrifuge does provide a benefit if Shoal Creek were to treat Crowder's flow. Having this facility would make it so that the plant is not completely dependent on land application for disposing of its waste. In doing so, the plant would not be required to have a minimum of 120 days of storage. This does not provide much meaningful benefit for the Shoal Creek Plant alone since existing sludge storage is adequate. However, this eliminates the need to construct additional sludge storage if treating flow from Crowder. Table 8-26 provides a construction cost estimate for the construction of a centrifuge facility to accommodate sludge from both the Shoal Creek and Crowder plants.

**Table 8-26. Cost Estimate for Construction of Centrifuge Sludge Handling Facility**

| <b>Item No.</b>                   | <b>Units</b> | <b>Quantity</b> | <b>Description</b>               | <b>Unit Price</b> | <b>Totals</b>          |
|-----------------------------------|--------------|-----------------|----------------------------------|-------------------|------------------------|
| 1                                 | LS           | 1               | Centrifuge Equipment             | \$ 500,000.00     | \$ 500,000.00          |
| 2                                 | LS           | 1               | Centrifuge Installation          | \$ 250,000.00     | \$ 250,000.00          |
| 3                                 | LS           | 1               | Sludge Polymer Feed System       | \$ 80,000.00      | \$ 80,000.00           |
| 4                                 | LS           | 1               | Sludge Conveyor System           | \$ 150,000.00     | \$ 150,000.00          |
| 5                                 | SF           | 400             | Sludge Pump Building             | \$ 250.00         | \$ 100,000.00          |
| 6                                 | SF           | 800             | Centrifuge Building              | \$ 250.00         | \$ 200,000.00          |
| 7                                 | LS           | 1               | Sludge and Grinder Pumps         | \$ 150,000.00     | \$ 150,000.00          |
| 8                                 | LS           | 1               | Mixer and Controls               | \$ 85,000.00      | \$ 85,000.00           |
| 9                                 | LS           | 1               | Misc. Piping for Sludge Handling | \$ 80,000.00      | \$ 80,000.00           |
| 10                                | SF           | 10000           | Compost Pad                      | \$ 12.00          | \$ 120,000.00          |
| 11                                | LS           | 1               | Compost Pad Roof Structure       | \$ 150,000.00     | \$ 150,000.00          |
| 12                                | LS           | 1               | Sludge Removal                   | \$ 15,000.00      | \$ 15,000.00           |
| 13                                | LS           | 1               | Painting                         | \$ 50,000.00      | \$ 50,000.00           |
| 14                                | LS           | 1               | Electrical                       | \$ 285,000.00     | \$ 285,000.00          |
| 15                                | LS           | 1               | Sitework                         | \$ 60,000.00      | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |              |                 |                                  |                   | <b>\$ 2,275,000.00</b> |

Considering an annual O&M cost for sludge hauling of approximately \$60,490, it is assumed that the construction of a centrifuge will provide for an estimated 50% reduction in operating costs or an annual savings of approximately \$30,000. Considering this and counting the cost of constructing a new sludge storage tank (Table 8-25) as a reduction from the cost provided in Table 8-26, it is estimated that it will take 40 years for the City to recoup the money associated with constructing a centrifuge. Even with the cost savings associated with not needing to construct an additional sludge storage tank, it is still a long payback period for the City to recoup its

investment in a centrifuge. As such, the City should have further discussions as to the needs for and benefits of installing a centrifuge to determine if it is an improvement they want to pursue for reasons outside of the financial considerations provided here.

#### 8.7.6 Filtration

##### **Construct Tertiary Filters – Low Priority**

For the same reasons described previously in Section 8.6.9, tertiary filters may be needed in the future if adequate phosphorus removal cannot be achieved biologically. For also treating flow from Crowder, 12.0 MGD of filtration capacity will be needed. The proposed filter building would be constructed north of the proposed concentric aeration and clarification basins and west of the existing oxidation ditches, requiring more of the existing pond to be filled.

Table 8-27 provides a construction cost estimate for the construction of the tertiary filters.

**Table 8-27. Cost Estimate for Construction of Tertiary Filters**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                 | UNIT PRICE      | TOTAL                  |
|-----------------------------------|----------|------|-----------------------------|-----------------|------------------------|
| 1                                 | 16440    | CY   | Excavation from Borrow Pit  | \$ 8.00         | \$ 131,520.00          |
| 2                                 | 12000    | CY   | Backfill Pond               | \$ 10.00        | \$ 120,000.00          |
| 3                                 | 1700     | CY   | Fill Around Filter Building | \$ 10.00        | \$ 17,000.00           |
| 4                                 | 275      | CY   | Concrete                    | \$ 1,000.00     | \$ 275,000.00          |
| 5                                 | 1        | LS   | Filter Equipment            | \$ 1,900,000.00 | \$ 1,900,000.00        |
| 6                                 | 1        | LS   | Filter Installation         | \$ 475,000.00   | \$ 475,000.00          |
| 7                                 | 1        | LS   | Pumps and Controls          | \$ 150,000.00   | \$ 150,000.00          |
| 8                                 | 3600     | SF   | Filter Building             | \$ 150.00       | \$ 540,000.00          |
| 9                                 | 1        | LS   | Overhead Crane System       | \$ 45,000.00    | \$ 45,000.00           |
| 10                                | 1        | LS   | Site Piping                 | \$ 75,000.00    | \$ 75,000.00           |
| 11                                | 1        | LS   | Site Grading                | \$ 40,000.00    | \$ 40,000.00           |
| 12                                | 1        | LS   | Railing & Misc. Metals      | \$ 40,000.00    | \$ 40,000.00           |
| 13                                | 1        | LS   | Electrical                  | \$ 950,000.00   | \$ 950,000.00          |
| 14                                | 3600     | SF   | Crushed Stone Surfacing     | \$ 10.00        | \$ 36,000.00           |
| 15                                | 1        | LS   | Chemical Feed Equipment     | \$ 60,000.00    | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                             |                 | <b>\$ 4,854,520.00</b> |

### 8.7.7 UV Disinfection

#### **Construct UV Disinfection Structure – High Priority**

As discussed previously, the capacity of the existing UV structure is adequate for current and future Shoal Creek flows. However, the current and future combined peak flows for both Shoal Creek and Crowder are such that additional capacity will be needed. In order to consolidate facilities, it is recommended that a new UV structure with the capacity to treat flow from the entire plant be constructed. To do this, a facility with the ability to be expanded to a capacity of 12.0 MGD by installing additional UV equipment would be constructed downstream of the point where discharge from the two proposed concentric basins ties into the existing 24" effluent line. This new UV structure will need to be constructed at an elevation that allows for the installation of possible future filters to tie in, which may require lowering the existing outfall sewer. The existing UV structure would then be abandoned.

Table 8-28 provides a cost estimate for the construction of a new UV structure.

**Table 8-28. Cost Estimate for UV Disinfection Structure**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                          | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|--------------------------------------|---------------|------------------------|
| 1                                 | 700      | CY   | Excavation                           | \$ 10.00      | \$ 7,000.00            |
| 2                                 | 725      | CY   | Backfill                             | \$ 15.00      | \$ 10,875.00           |
| 3                                 | 66       | CY   | Concrete                             | \$ 1,000.00   | \$ 66,000.00           |
| 4                                 | 1        | LS   | UV Equipment and Controls            | \$ 650,000.00 | \$ 650,000.00          |
| 5                                 | 1        | LS   | Effluent Weir                        | \$ 35,000.00  | \$ 35,000.00           |
| 6                                 | 1        | LS   | Parshall Flume                       | \$ 30,000.00  | \$ 30,000.00           |
| 7                                 | 1        | LS   | Electrical                           | \$ 260,000.00 | \$ 260,000.00          |
| 8                                 | 400      | LF   | 30" DIP to Replace Ex. Effluent Line | \$ 275.00     | \$ 110,000.00          |
| 9                                 | 400      | LF   | 24" DIP                              | \$ 400.00     | \$ 160,000.00          |
| 10                                | 350      | LF   | 2" Water Line                        | \$ 25.00      | \$ 8,750.00            |
| 11                                | 1        | EA   | Yard Hydrant                         | \$ 1,500.00   | \$ 1,500.00            |
| 12                                | 300      | LF   | Sidewalk                             | \$ 60.00      | \$ 18,000.00           |
| 13                                | 4        | EA   | Slide Gate                           | \$ 12,000.00  | \$ 48,000.00           |
| 14                                | 310      | SF   | Grating & Aluminum Plating           | \$ 150.00     | \$ 46,500.00           |
| 15                                | 1        | LS   | Roof Structure and Trolley           | \$ 75,000.00  | \$ 75,000.00           |
| 16                                | 1        | LS   | Connect to Existing 24" DIP          | \$ 15,000.00  | \$ 15,000.00           |
| 17                                | 1        | LS   | Coatings                             | \$ 20,000.00  | \$ 20,000.00           |
| 18                                | 1        | LS   | Misc. Metals                         | \$ 15,000.00  | \$ 15,000.00           |
| 19                                | 1        | LS   | Misc. Site Work, Piping & Valving    | \$ 40,000.00  | \$ 40,000.00           |
| 20                                | 1        | LS   | Surface Restoration                  | \$ 15,000.00  | \$ 15,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                      |               | <b>\$ 1,631,625.00</b> |

### 8.7.8 Electrical Facilities

#### **Construct Control Building and Install Generator – High Priority**

Considering the additional equipment associated with the proposed expansion of the treatment facilities, it will be necessary to construct a second control building to house controls for the proposed as well as any future improvements. Additionally, the existing generator at the Shoal Creek Plant will need to be replaced with a larger unit to provide adequate backup power to the existing facilities along with the proposed improvements. Table 8-29 provides a cost estimate for a new control building and generator.

**Table 8-29. Cost Estimate for New Control Building and Generator**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION      | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|------------------|---------------|----------------------|
| 1                                 | 600      | SF   | Control Building | \$ 250.00     | \$ 150,000.00        |
| 2                                 | 1        | LS   | Generator        | \$ 300,000.00 | \$ 300,000.00        |
| 3                                 | 1        | LS   | Misc. Piping     | \$ 30,000.00  | \$ 30,000.00         |
| 4                                 | 1        | LS   | Misc. Site Work  | \$ 30,000.00  | \$ 30,000.00         |
| 5                                 | 1        | LS   | Electrical       | \$ 50,000.00  | \$ 50,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                  |               | <b>\$ 560,000.00</b> |

### 8.7.9 *Miscellaneous Improvements to Crowder Facilities*

It is anticipated that some additional improvements will also have to be made to the existing Crowder Wastewater Treatment Plant in order to decommission it. For cost estimating purposes, it will be assumed that the existing treatment facilities will have to be closed and most of the equipment removed.

Flow from the head of the plant will also have to be diverted around the existing facilities to make its way to the Crowder Lift Station. Fortunately, operational personnel have indicated that such a line already exists. While most of this line is indicated to be 24" diameter pipe, some is indicated as being smaller than that. As such, these smaller runs of pipe will have to be replaced. It is also not known what condition the existing pipe is in. Most of the pipes are thought to be VCP, so it is likely that the pipe is not in the best condition. For these reasons, it will be assumed that all pipes will need to be replaced. Prior to design, the existing pipe should be inspected to determine its condition. If its condition is adequate, then less pipe will need to be replaced. For budgeting purposes though, the cost estimate will assume all pipes need replacement. Table 8-30 provides an estimated construction cost for these improvements.

**Table 8-30. Cost Estimate for Miscellaneous Improvements to Crowder WWTP**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                          | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|--------------------------------------|---------------|----------------------|
| 1                                 | 800      | LF   | 24" Dia. DIP Gravity Sewer           | \$ 400.00     | \$ 320,000.00        |
| 2                                 | 800      | LF   | Surface Restoration                  | \$ 5.00       | \$ 4,000.00          |
| 3                                 | 4        | EA   | 4' Dia. Manholes                     | \$ 10,000.00  | \$ 40,000.00         |
| 4                                 | 2        | EA   | Connection to Existing Facilities    | \$ 15,000.00  | \$ 30,000.00         |
| 5                                 | 1        | LS   | Decommission Existing Facilities     | \$ 200,000.00 | \$ 200,000.00        |
| 6                                 | 1        | LS   | Modifications to Existing Facilities | \$ 20,000.00  | \$ 20,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                      |               | <b>\$ 614,000.00</b> |

### 8.7.10 Improvement Cost Estimate Summary

Table 8-31 provides a summary of the construction costs presented in Section 8.7 for improvements needed at the existing Shoal Creek Plant to be able to treat wastewater flow from the Crowder Plant. Table 8-31 groups improvements by priority to present a total estimated construction cost for high, medium, and low priority improvements, as well as a total estimated cost for all improvements. Some of the proposed improvements reflect the construction of additional facilities that will certainly require operation and maintenance that is not now required at the Shoal Creek Plant. However, at the time that the Shoal Creek Plant is treating flow from Crowder, the Crowder Plant will be out of operation. As such, any increase in operation and maintenance costs would be expected to be more than offset by no longer needing to operate the Crowder Plant. In this case, with no expected net increase in O&M costs, the construction costs presented would also be considered the same as the present worth costs.

**Table 8-31. Summary of Cost Estimates for Facility Expansion**

| <b>Improvement</b>                                                       | <b>Construction Cost</b> |
|--------------------------------------------------------------------------|--------------------------|
| <b>High Priority Improvements</b>                                        |                          |
| Crowder Pressure Sewer Line Reroute                                      | \$ 77,000.00             |
| Raw Sewage Pumping Structure Renovation                                  | \$ 645,000.00            |
| Grit Removal Facility Construction and Splitter Box Improvements         | \$ 1,093,450.00          |
| Concentric Basin Extended Aeration System Construction - Phase I         | \$ 7,162,080.00          |
| Additional Sludge Storage Construction                                   | \$ 928,550.00            |
| UV Disinfection Structure Construction                                   | \$ 1,631,625.00          |
| Control Building Construction & Generator Installation                   | \$ 560,000.00            |
| Crowder Lift Station Renovation                                          | \$ 1,092,000.00          |
| Miscellaneous Improvements to Crowder WWTP                               | \$ 614,000.00            |
| <b>Total Estimated Construction Cost of High Priority Improvements</b>   | <b>\$ 13,803,705.00</b>  |
| <b>Medium Priority Improvements</b>                                      |                          |
| Centrifuge Sludge Handling Facility Construction                         | \$ 2,275,000.00          |
| <b>Total Estimated Construction Cost of Medium Priority Improvements</b> | <b>\$ 2,275,000.00</b>   |
| <b>Low Priority Improvements</b>                                         |                          |
| Concentric Basin Extended Aeration System Construction - Phase II        | \$ 7,136,900.00          |
| Tertiary Filter Construction                                             | \$ 4,854,520.00          |
| <b>Total Estimated Construction Cost of Low Priority Improvements</b>    | <b>\$ 11,991,420.00</b>  |
| <b>Total Estimated Construction Cost of All Improvements</b>             | <b>\$ 28,070,125.00</b>  |

## 9.0 RECOMMENDATIONS

### 9.1 Improvements to Existing Facilities

Many of the existing facilities at the Shoal Creek Plant are well past the end of their useful life, requiring regular maintenance and repair. In order to maintain proper function and ensure continued compliance with the facility's operating permit, improvements to the plant should be pursued. Section 8.6 describes various improvements that could be implemented to the existing facilities to meet current and future needs. While all improvements discussed are of benefit, not all are of equal importance. Considering this, it is recommended that the improvements identified as a high priority in Section 8.6 are pursued at a minimum. These improvements reflect upgrades and replacements of key components at the treatment facility.

The fact that these facilities have ongoing maintenance needs due to their age presents serious operational challenges for plant personnel. Implementation of the high priority improvements will correct major deficiencies at the plant, providing a boost to operational effectiveness and to the ability of the facilities to handle future system demands. Table 9-1 provides a total project cost estimate for the recommended high priority improvements. Figure 9-1 shows a general layout of the recommended high priority improvements to the existing Shoal Creek WWTP facilities.



**Table 9-1. Cost Estimate for Recommended Improvements to Existing Facilities**

| <b>Improvement</b>                                    | <b>Construction Cost</b> |
|-------------------------------------------------------|--------------------------|
| Raw Sewage Pumping Structure Renovation               | \$ 565,000.00            |
| Oxidation Ditch Retrievable Diffuser Installation     | \$ 2,715,000.00          |
| Clarifier Center Feed Equipment Installation          | \$ 1,050,000.00          |
| RAS/WAS Pump Station Renovation                       | \$ 1,010,000.00          |
| Backup Generator ATS Installation                     | \$ 50,000.00             |
| <b>Construction Cost Subtotal</b>                     | <b>\$ 5,390,000.00</b>   |
| Contingency (10%)                                     | \$ 539,000.00            |
| Engineering - Facility Plan Revisions for SRF Program | \$ 25,000.00             |
| Engineering - Rate Study Update                       | \$ 20,000.00             |
| Engineering - Survey                                  | \$ 20,000.00             |
| Engineering - Design                                  | \$ 427,300.00            |
| Engineering - Bidding                                 | \$ 20,000.00             |
| Engineering - Construction                            | \$ 174,900.00            |
| Engineering - Resident Project Representation*        | \$ 222,500.00            |
| Engineering - Start-Up Services                       | \$ 15,000.00             |
| Engineering - Follow-Up Services                      | \$ 15,000.00             |
| Engineering - O&M Manual Update                       | \$ 35,000.00             |
| Legal, Abstract, Title Work                           | \$ 20,000.00             |
| Loan Fee (5%)                                         | \$ 346,185.00            |
| <b>Total Project Cost</b>                             | <b>\$ 7,269,885.00</b>   |

\*Full Time Resident Project Representation (Up to 190 Days)





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|      |          |

DWN. BY: WBW  
CKD. BY: RDS  
APPD. BY: RDS  
DATE: JULY 2024

RECOMMENDED IMPROVEMENTS TO EXISTING FACILITIES  
SHOAL CREEK WASTEWATER TREATMENT PLANT EVALUATION  
NEOSHO, MISSOURI

FIGURE

**9-1**



## 9.2 Improvements for Treating Crowder Flow

Should the City desire to consolidate its treatment facilities by decommissioning the Crowder Plant and sending its flow to the Shoal Creek Plant for treatment, the construction of additional facilities will be needed at the Shoal Creek Plant. As such, most of the improvements described in Section 8.7 are considered high priority as they are necessary for allowing this to happen. Without these high priority improvements at the Shoal Creek Plant, the Crowder Plant must remain operational.

Given that the construction of additional facilities to treat flow from Crowder does not forgo the need for the high priority improvements on the existing system, the improvements from Section 9.1 will still be needed as part of this project as well. Table 9-2 provides a total project cost estimate for all improvements necessary to the existing facilities as well as those needed for Shoal Creek to treat flow from Crowder. Figure 9-2 provides a general layout of the improvements necessary for the Shoal Creek Plant to be able to treat the additional wastewater flow from the Crowder Plant.

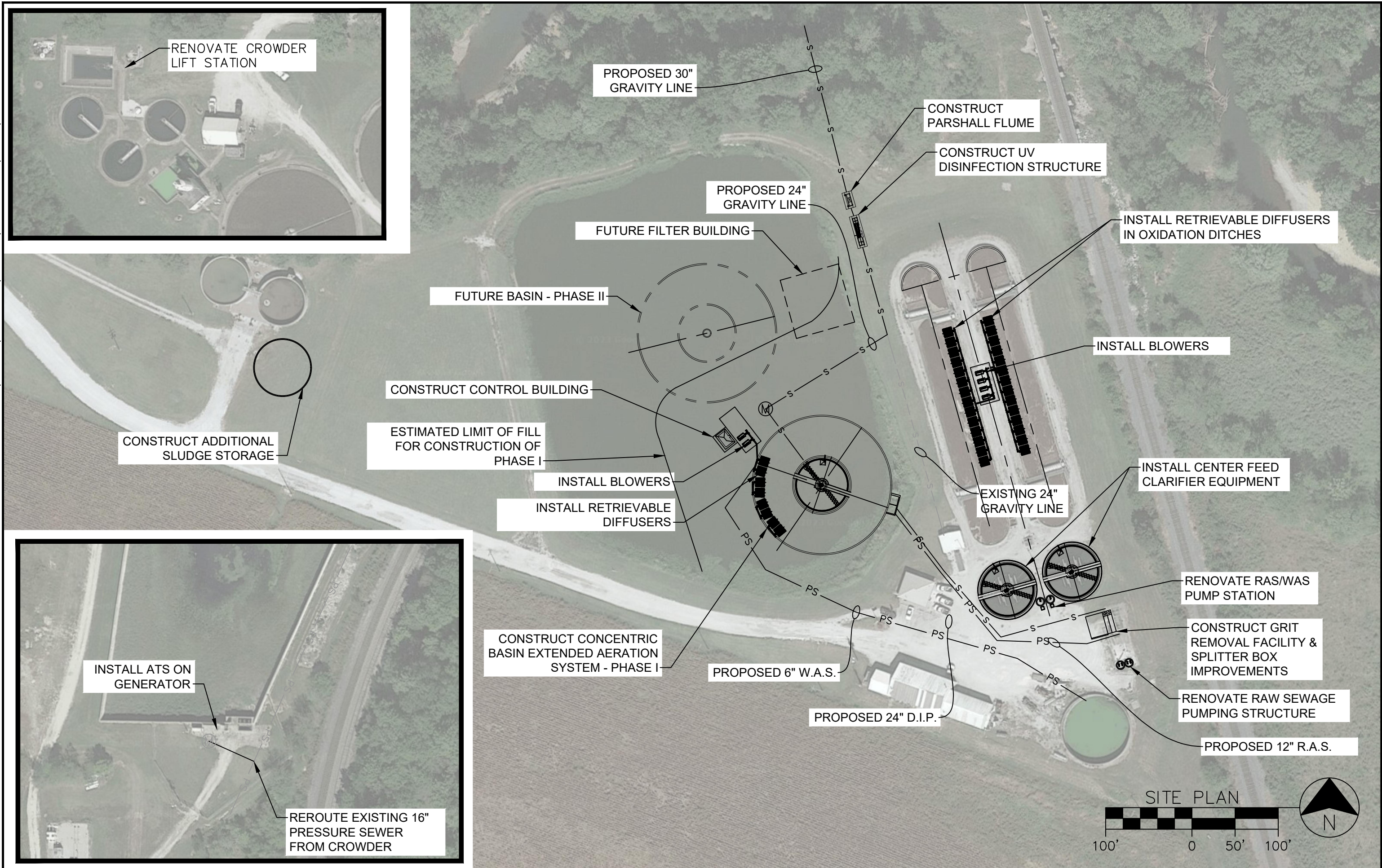
**Table 9-2. Cost Estimate for Recommended Improvements Treating Crowder Flow**

| <b>Improvement</b>                                               | <b>Construction Cost</b> |
|------------------------------------------------------------------|--------------------------|
| Raw Sewage Pumping Structure Renovation                          | \$ 645,000.00            |
| Oxidation Ditch Retrievable Diffuser Installation                | \$ 2,715,000.00          |
| Clarifier Center Feed Equipment Installation                     | \$ 1,050,000.00          |
| RAS/WAS Pump Station Renovation                                  | \$ 1,010,000.00          |
| Backup Generator ATS Installation                                | \$ 50,000.00             |
| Crowder Pressure Sewer Line Reroute                              | \$ 77,000.00             |
| Grit Removal Facility Construction and Splitter Box Improvements | \$ 1,093,450.00          |
| Concentric Basin Extended Aeration System Construction - Phase I | \$ 7,162,080.00          |
| Additional Sludge Storage Construction                           | \$ 928,550.00            |
| UV Disinfection Structure Construction                           | \$ 1,631,625.00          |
| Control Building Construction & Generator Installation           | \$ 560,000.00            |
| Crowder Lift Station Renovation                                  | \$ 1,092,000.00          |
| Miscellaneous Improvements to Crowder WWTP                       | \$ 614,000.00            |
| <b>Construction Cost Subtotal</b>                                | <b>\$ 18,628,705.00</b>  |
| Contingency (10%)                                                | \$ 1,862,871.00          |
| Engineering - Facility Plan Revisions for SRF Program            | \$ 25,000.00             |
| Engineering - Rate Study Update                                  | \$ 20,000.00             |
| Engineering - Survey                                             | \$ 30,000.00             |
| Engineering - Design                                             | \$ 1,265,000.00          |
| Engineering - Bidding                                            | \$ 20,000.00             |
| Engineering - Construction                                       | \$ 505,000.00            |
| Engineering - Resident Project Representation*                   | \$ 462,000.00            |
| Engineering - Start-Up Services                                  | \$ 35,000.00             |
| Engineering - Follow-Up Services                                 | \$ 30,000.00             |
| Engineering - O&M Manual Update                                  | \$ 60,000.00             |
| Geotechnical Investigation                                       | \$ 25,000.00             |
| Legal, Abstract, Title Work                                      | \$ 20,000.00             |
| Loan Fee (5%)                                                    | \$ 1,149,429.00          |
| <b>Total Project Cost</b>                                        | <b>\$ 24,138,005.00</b>  |

\*Full Time Resident Project Representation (Up to 395 Days)



Z:\NEOSHO MO\CITY OF NEOSHO\WASTEWATER\2023 FACILITY PLAN\DRAWINGS\FIGURE 9-2 SC & C WWTP IMP.DWG



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DWN. BY: WBW  
CKD. BY: RDS  
APPD. BY: RDS  
DATE: JULY 2024

RECOMMENDED IMPROVEMENTS FOR TREATING CROWDER FLOW  
SHOAL CREEK WASTEWATER TREATMENT PLANT EVALUATION  
NEOSHO, MISSOURI

FIGURE

**9-2**



## 10.0 FUNDING

Based on the provided actual values for Fiscal Year 2022, the City reported wastewater system income and expenses to be approximately \$2,200,061 and \$2,846,015, respectively. As part of these expenses, the City also has approximately \$341,225 in annual debt service. Based on the financial data provided for FY 2022, operation and maintenance expenses total to be approximately \$1,129,620.

The City currently has \$2,209,700 in debt service for the sanitary sewer system at the end of FY23. The original loan amount was \$5,488,800, covering several interceptor projects, I&I abatement efforts, and the peak flow equalization and pumping station improvements. The annual payment on the remaining debt service is \$341,225, making the anticipated payoff date for the debt service the year 2030. Additional financial information for the wastewater collection and treatment system has been included in Appendix F. The following paragraphs represent potential funding opportunities applicable to completing this abatement plan in an accelerated manner.

The State of Missouri Clean Water State Revolving Fund (CWSRF) program provides low-interest loans to qualifying cities to construct wastewater facilities. The loan is secured by bonds that are voted by residents of the City and are subsequently sold to the authority that manages the program. SRF loan interest rates are about 70% below the market rate, plus an annual administrative fee of 0.5%, on a 20-year term. Based on current bond markets, it appears that a 2% net cost of borrowing could reasonably be anticipated by the City via SRF participation; includes all loan fees associated with the program and is significantly lower than the bond costs for projects financed outside the SRF program. The SRF program also has provisions for grant funding, but there is no set amount, and in recent years availability of grants has been very limited.

Potential grant funding should be pursued at the time the City moves forward with a project, however, due to uncertainty as to their availability, they cannot be counted on in a funding plan. In order to be eligible for the SRF program, the City would need to pass a bond issue for the amount of the proposed loan and apply it to the program. There is no fee associated with the application to apply to the program.

One grant fund option is the CWSRF Affordability Grant through MDNR which provides up to \$2,000,000 or 50% of the eligible project costs. This grant would be in conjunction with a low-interest CWSRF loan. CWSRF interest rates are 30% of The Bond Buyer's 25-Revenue Bond Index. The City would need to have a complete facility plan and documentation of an acceptable debt instrument in place at the time of application to be considered for grant eligibility. CWSRF

applications are due March 1 of each year and are available at: <https://dnr.mo.gov/document-search/clean-water-state-revolving-fund-loan-application-mo-780-1951>.

Additionally, MDNR offers a Water Quality Incentive (WQI) Grant of up to \$1,000,000 for qualifying project costs, not to exceed 50 percent of the total funding request. Similar to the CWSRF Affordability Grant, this grant would also be in conjunction with a low-interest CWSRF loan and would require a complete facility plan and documentation of a debt instrument in place at the time of application to be considered for grant eligibility.

It should also be noted that applicants with projects eligible for a CWSRF loan with an Affordability Grant may receive that grant as well as a WQI grant for qualifying project costs if the total funding request is over \$4,000,000 and the CWSRF loan is at least \$2,000,000.

According to the SRF eligibility evaluation form, the City of Neosho would most likely not be eligible for a CWSRF Affordability or Water Quality Grant. The City's eligibility is based on population, unemployment rate, median household income (MHI) compared to the state average, proposed user rates as a percentage of MHI, percentage of households below the poverty level, and the population trend over the last ten years. To be eligible, the City needs to score 195 points based on these criteria. Based on the available information, the City currently appears to only score 80 points. While receiving some points for MHI and poverty level, the City's population is too large, the unemployment rate is too low, the monthly sewer rate is too low, and growth is expected to increase which awards the City zero points in those areas. While the City does not appear eligible, eligibility should and will be verified by MDNR upon review of the funding application for a loan. Applications for the CWSRF funding can be submitted directly to the Missouri Department of Natural Resources at: [fac@dnr.mo.gov](mailto:fac@dnr.mo.gov) or P.O. Box 176, Jefferson City, MO 65102-0176, ATTN: Financial Assistance Center.

A typical alternative to procuring a low-interest loan through the SRF program is to look for financial assistance through the Rural Development grant and loan program. The Rural Development loans typically have a similar or slightly higher interest rate than the SRF loan and offer a longer term. The SRF program also offers extended-term financing at an additional 0.25% interest (term not to exceed the useful life of the asset being financed). However, the Rural Development program requires that the community has a population of 10,000 or less. Given that Neosho's population is greater than this, the City would not be eligible for the program.

Rural Development grants also typically require communities to raise their average rate to 2% of the median household income (MHI) while eligibility for CWSRF grants is affected by this criteria as well. For Neosho, the MHI is currently in the range of \$49,301 based on US Census Bureau

statistics. To be eligible for RD grant funding, the average monthly user rate would need to be at least \$82.17 for 5,000 gallons of usage.

The City of Neosho's current rates are as follows:

- o Base fee: \$13.52
- o Per 1,000 gallons thereafter: \$5.06
- o Average for 5,000 gallons = \$38.82

The current average rate appears to be \$38.82, which is less than the 1% of the MHI, thus, well below 2% of the MHI. As such, it's likely that the community would not be eligible for Rural Development grants without a rate increase even if the City had a population of less than 10,000. As mentioned, having higher rates also increases the points awarded to the City for grant fund eligibility through the SRF Program.

The Community Development Block Grant (CDBG) program is another opportunity for grant funds. However, funds are only available to be used as gap funding meaning they must be paired with another funding source to cover costs above funds that are available from the first source. CDBG grants require the community to have greater than 51% of their residents impacted by the project be in the low to moderate-income range. Based on 2015 U.S. Census Bureau information, approximately 47.46% of the City's residents were considered to be in the low to moderate-income bracket, making the City ineligible to receive CDBG grant funding. It should be noted that it is possible to revise the City's LMI value by conducting an income survey. If completed and the survey shows an LMI value greater than 51%, the City would then be eligible for CDBG funds. Should the City pursue CDBG funding, Lyric Stotler with the Department of Economic Development can be contacted at [Lyric.Stotler@ded.mo.gov](mailto:Lyric.Stotler@ded.mo.gov) or (573) 751-2028 or Carrie Campbell with the Harry S. Truman Coordinating Council at [ccampbell@hstcc.org](mailto:ccampbell@hstcc.org) to obtain more information.

In order to be eligible for funding, bonds would need to be passed to cover the total cost of the project if the City does not have adequate unobligated bonds available. If passing a bond issue is required and thought to be problematic, a lease purchase could be considered. In recent years communities have chosen this option over the SRF program in some cases due to the competitive rates that are not much higher than the SRF program currently. There are also fewer requirements and paperwork to qualify for a lease purchase, which can be attractive for some communities.



Considering the City's recent financial information and the size of the proposed project, it should be expected that a rate increase will be necessary to cover the associated costs regardless of the funding source or method.

## 10.1 Estimated Impact on Rates

In order to help the City evaluate its options, this section provides an estimate of the potential impact on sewer rates associated with funding each project. While the values provided here are useful for estimating possible rate changes in general, it will be necessary for a proper rate study to be completed prior to proceeding with a project to assess rate impacts more accurately. Because it appears unlikely that the City will be eligible for grant funds, the rate assessments provided reflect funding all project costs with a low-interest loan. The provided calculations also assume the rate increase will be enough to cover the entirety of the loan payment and does not account for utilizing any existing City funds or income to cover the cost.

Table 10-1 provides an estimated impact on rates should the City have a project to improve the existing facilities, as described in Section 9.1. Table 10-2 provides an estimated impact on rates should the City a project to improve the existing facilities, as described in Section 9.2.

**Table 10-1. Existing Facility Improvement Project Rate Analysis**

| ITEM                            | Loan Only<br>(30 Yr) | Loan Only<br>(20 Yr) |
|---------------------------------|----------------------|----------------------|
| Total Project Cost              | \$7,269,885.00       | \$7,269,885.00       |
| Grant Amount                    | \$0.00               | \$0.00               |
| Loan Amount                     | \$7,269,885.00       | \$7,269,885.00       |
| Annual Interest Rate            | 2%                   | 2%                   |
| Loan Period (Years)             | 30                   | 20                   |
| Annual Payment                  | \$324,237.00         | \$444,917.00         |
| Total Interest Paid             | \$2,457,225.00       | \$1,628,455.00       |
| Total Loan Cost                 | \$9,727,110.00       | \$8,898,340.00       |
| Average Monthly Rate Increase   | \$5.71               | \$7.83               |
| New Average Rate/Mo.            | \$44.53              | \$46.65              |
| New Average Rate Percent of MHI | 1.08%                | 1.14%                |

**Table 10-2. Improvements for Treating Crowder Flow Project Rate Analysis**

| ITEM                            | Loan Only (30 Yr) | Loan Only (20 Yr) |
|---------------------------------|-------------------|-------------------|
| Total Project Cost              | \$24,138,005.00   | \$24,138,005.00   |
| Grant Amount                    | \$0.00            | \$0.00            |
| Loan Amount                     | \$24,138,005.00   | \$24,138,005.00   |
| Annual Interest Rate            | 2%                | 2%                |
| Loan Period (Years)             | 30                | 20                |
| Annual Payment                  | \$1,076,555.00    | \$1,477,246.00    |
| Total Interest Paid             | \$8,158,645.00    | \$5,406,915.00    |
| Total Loan Cost                 | \$32,296,650.00   | \$29,544,920.00   |
| Average Monthly Rate Increase   | \$18.95           | \$26.00           |
| New Average Rate/Mo.            | \$57.77           | \$64.82           |
| New Average Rate Percent of MHI | 1.41%             | 1.58%             |

## 11.0 ANTIDegradation REVIEW

Modification of the Shoal Creek Wastewater Treatment Plant may require that the Missouri Antidegradation Rule and Implementation Procedure be complied with prior to the issuance of a new construction or operating permit for the facility. This is more likely to be true for the improvements needed to treat wastewater from the Crowder Plant considering the capacity of the Shoal Creek Plant will be increased. As a part of the antidegradation review process, effluent limits must be derived for the expanded treatment plant, and evidence must be provided to MDNR showing that the anticipated increase in effluent discharge will not result in the degradation of Shoal Creek.

## 12.0 ENVIRONMENTAL INFORMATION

As a requirement of the environmental review of Clean Water State Revolving Fund (SRF) projects, the facilities plan must include environmental information as set forth in 10 CSR 20-4.050(2)(B). Several specific items were not included in the previous sections of this report and are therefore discussed herein.

### 12.1 Irreversible and Irretrievable Commitment of Resources

Construction of the proposed project, as with any typical construction effort of this type, would involve the use of fossil fuels, primarily for the operation of construction vehicles and equipment. Additionally, and to a lesser degree, future operation and maintenance of the facility would require the commitment of additional energy resources. A portion of the electrical power to the facility is likely generated from fossil fuels which could be considered irreversible and irretrievable.

Under the proposed project, currently undeveloped areas may be converted to structures, and driving surfaces, resulting in the potential loss of topsoil. During construction, building materials such as concrete, asphalt, steel, wire, wood, plastic, etc. will be utilized resulting in an irreversible loss of these materials.

Finally, the proposed improvements to the wastewater treatment plant will allow for adequate wastewater treatment facilities for the City of Neosho, resulting in an ability to accommodate additional growth. The factors combined to allow such development would likely result in a long-term conversion of currently undeveloped lands to residential and other land uses.

### 12.2 Future Environment Without the Project

The future environmental conditions in the Neosho area under the “no project” alternative are important to the planning process. No changes in topography, geology, climate, or hydrology are anticipated to occur with or without the project. The greatest potential effects will be on water quality and demographics.

The primary purpose of this study is to set forth recommended improvements to Neosho’s wastewater system to allow the treatment facility’s ability to continue to meet regulatory effluent limitations. Whether wastewater flows and loads increase or stay the same, the quality of effluent from the existing facilities can be expected to deteriorate due to the aging of the plant equipment. As effluent quality approaches the permit limits, development in Neosho will be curtailed, either by the City or by State mandate, until provisions are made to upgrade the plant to meet effluent limits.

### 12.3 Potential Environmental Impacts

The only unavoidable adverse impacts resulting from the selected plan are short-term noise and minor air pollution caused by construction equipment necessary to complete the project. The project itself will not produce air pollution, objectionable odors, or noise pollution, nor will it relocate any citizens. Any archaeological or cultural sites that may be unearthed during construction will be adequately inspected and cultural material will be salvaged, if warranted, by trained archaeologists. Construction of the improvements is not expected to substantially change present land use patterns, and no significant environmental impacts are anticipated as a result of this expansion.

### 12.4 Short-Term Uses Versus Long-Term Productivity

Construction of the proposed facilities would result in short-term construction-related impacts such as interference with local traffic, limited air emissions, increase in ambient noise levels, dust generation, disturbance of wildlife, and increased storm runoff. These impacts would be temporary and would occur only during construction. They are not expected to alter the long-term productivity of the natural environment.

The project would assist in the long-term productivity of the Neosho area by supporting the adequacy of the City's wastewater treatment facilities, thereby allowing continued growth and economic development in and around the City. The long-term benefits of the proposed project outweigh the mitigable short-term impacts to the environment resulting from project construction.

## **Appendix A – Current Missouri State Operating Permit**

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Permit No.                      | MO-0104906                                                                          |
| Owner:                          | City of Neosho                                                                      |
| Address:                        | 203 East Main Street, Neosho, MO 64850                                              |
| Continuing Authority:           | Same as above                                                                       |
| Address:                        | Same as above                                                                       |
| Facility Name:                  | Neosho Wastewater Treatment Plant                                                   |
| Facility Address:               | Old Scenic Drive 0.1 miles north of Jefferson Avenue intersection, Neosho, MO 64850 |
| Legal Description:              | See Page 2.                                                                         |
| UTM Coordinates:                | See Page 2.                                                                         |
| Receiving Stream:               | See Page 2.                                                                         |
| First Classified Stream and ID: | See Page 2.                                                                         |
| USGS Basin & Sub-watershed No.: | See Page 2.                                                                         |

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

See Page 2.

This permit authorizes only wastewater and stormwater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 621.250 RSMo, Section 640.013 RSMo and Section 644.051.6 of the Law.

May 1, 2017  
Effective Date

  
Steven Feeler, Acting Director, Division of Environmental Quality

April 30, 2022  
Expiration Date

  
David J. Lamb, Acting Director, Water Protection Program

## **FACILITY DESCRIPTION (continued):**

This permit includes two wastewater treatment facilities which serve the City of Neosho. These facilities were previously permitted separately – Neosho Crowder WWTP (MO-0039926) and Neosho Shoal Creek WWTP (MO-0104906). During normal operations at the Neosho Crowder WWTP, effluent is sent to the Neosho Shoal Creek WWTP, where effluent from the two plants mix together prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Therefore, it has been determined by the permit writer that combining the two permits into one permit is appropriate. The use or operation of this facility shall be by or under the supervision of a Certified A Operator.

### **Outfall #001 – Main Facility Outfall at Neosho Shoal Creek WWTP – POTW – SIC #4952**

Flow equalization basin / bar screen / 2 oxidation ditches / 2 final clarifiers / ultraviolet disinfection / aerobic sludge digester / 2 aerated sludge holding basins / sludge is land applied. Ultraviolet disinfection system has a design flow capability of 6 MGD to treat combined effluent flows from both the Neosho Shoal Creek WWTF and the Neosho Crowder WWTF.

Design population equivalent is 30,000.

Design flow is 3.0 MGD.

Actual flow is 1.7 MGD.

Design sludge production is 630 dry tons/year.

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Legal Description:              | SE ¼, SE ¼, Sec. 12, T25N, R32W, Newton County |
| UTM Coordinates:                | X= 377523, Y= 4084102                          |
| Receiving Stream and ID:        | Shoal Creek (P) (3222) 303(d) List             |
| First Classified Stream and ID: | Shoal Creek (P) (3222) 303(d) List             |
| USGS Basin & Sub-watershed No.: | (11070207-0804)                                |

### **Outfall #002 – Discharge at Neosho Crowder WWTP (previously permitted as Outfall #001 in MO-0039926)**

Flow equalization basin / bar screen / 2 pre-aeration basins / 2 primary clarifiers / 3 trickling filters / recirculation basin / 3 secondary clarifiers / chlorine disinfection / chlorine contact basin / dechlorination / 2 primary aerobic sludge digesters / sludge drying bed / sludge is land applied.

Design population equivalent is 29,000.

Design flow is 3.0 MGD.

Actual flow is 0.92 MGD.

Design sludge production is 812 dry tons/year.

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Legal Description:              | SW ¼, SE ¼, Sec. 09, T24N, R32W, Newton County |
| UTM Coordinates:                | X= 376620, Y= 4075426                          |
| Receiving Stream:               | Tributary to Buffalo Creek (losing)            |
| First Classified Stream and ID: | 8-20-13 MUDD V1.0 (C) (3960) (losing)          |
| USGS Basin & Sub-watershed No.: | (11070208-0401)                                |

### **Outfall #003 – Discharge Point to the Golf Course Irrigation Storage Ponds**

This location has been identified in the permit in order to document the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds. Effluent discharged from Outfall #003 receives the same treatment as effluent discharged from Outfall #002. This permit does not include final effluent limitations for this location, as effluent sampling is not possible at the storage ponds. However, Internal Monitoring Point #IP2 has been created by the permit writer in order to monitor effluent quality prior to the discharge to at Outfall #003.

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Legal Description:              | SE ¼, NW ¼, Sec. 35, T25N, R32W, Newton County |
| UTM Coordinates:                | X= 374823, Y= 4078567                          |
| Receiving Stream:               | Tributary to Buffalo Creek (losing)            |
| First Classified Stream and ID: | 8-20-13 MUDD V1.0 (C) (3960) (losing)          |
| USGS Basin & Sub-watershed No.: | (11070208-0401)                                |

### **Internal Monitoring Point #IP1 – Influent Monitoring Location for Neosho Crowder WWTP**

Internal Monitoring Point #IP1 is the location where influent monitoring of the Neosho Crowder WWTP shall take place. Influent monitoring at this location is necessary in order to determine the removal efficiency of the Neosho Crowder WWTP prior to the mixing of the two effluents at the Neosho Shoal Creek WWTP.

|                    |                                                |
|--------------------|------------------------------------------------|
| Legal Description: | NE ¼, NE ¼, Sec. 16, T24N, R32W, Newton County |
| UTM Coordinates:   | X= 376928, Y= 4075240                          |



**Internal Monitoring Point #IP2 – Effluent Monitoring Location for Neosho Crowder WWTP – Golf Course Irrigation Storage Ponds**

Internal Monitoring Point #IP2 is the location where effluent monitoring of the Neosho Crowder WWTP shall take place when effluent is being sent to the golf course irrigation storage ponds. Water storage at the golf course includes three (3) interconnected storage ponds, the last of which, has the potential to discharge. If a discharge did occur from the final storage pond, the water being discharged would not be representative of the effluent contribution from the Neosho Crowder WWTP as there are other sources contributing to the storage ponds. Therefore, it has been determined by the permit writer that effluent must be monitored prior to the discharge to the golf course irrigation storage ponds in order to determine compliance with final effluent limitations. Due to the fact that there is no location for sample collection once effluent is being routed to the golf course irrigation ponds, the location of Internal Monitoring Point #IP2 is in the chlorine contact basin, where effluent has been subject to the full treatment of the Neosho Crowder WWTP.

Legal Description: NE ¼, NE ¼, Sec. 16, T24N, R32W, Newton County  
UTM Coordinates: X= 376753, Y= 4075394

**Internal Monitoring Point #IP3 – Effluent Monitoring Location During Normal Operations for Neosho Crowder WWTP**

Internal Monitoring Point #IP3 is the location where effluent monitoring of the Neosho Crowder WWTP shall take place when effluent is being sent to the Neosho Shoal Creek WWTP. Effluent from the Neosho Crowder WWTP mixes with effluent from the Neosho Shoal Creek WWTP just prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Prior to the mixing of the two effluents, the permittee has the ability to collect samples of effluent from a Parshall Flume at the Neosho Crowder WWTP. Therefore, Internal Monitoring Point #IP3 is located in the effluent stream which includes only the Neosho Crowder WWTP effluent at the Neosho Shoal Creek WWTP. Monitoring at this location is necessary so the permittee can collect samples to determine compliance with technology based requirements for the Neosho Crowder WWTP prior to the mixing of the two effluents.

Legal Description: NE ¼, NE ¼, Sec. 13, T25N, R32W, Newton County  
UTM Coordinates: X= 377603, Y= 4083919

**Internal Monitoring Point #IP4 – Influent Monitoring Location for Neosho Shoal Creek WWTP**

Internal Monitoring Point #IP4 is the location where influent monitoring of the Neosho Shoal Creek WWTP shall take place. Influent monitoring at this location is necessary in order to determine the removal efficiency of the Neosho Shoal Creek WWTP prior to the mixing of the two effluents at the Neosho Shoal Creek WWTP.

Legal Description: NE ¼, NE ¼, Sec. 13, T25N, R32W, Newton County  
UTM Coordinates: X= 377666, Y= 4083897

**Internal Monitoring Point #IP5 – Effluent Monitoring Location for Neosho Shoal Creek WWTP prior to Effluents Mixing**

Internal Monitoring Point #IP5 is the location where effluent monitoring of the Neosho Shoal Creek WWTP shall take place prior to the mixing of the two effluents at the Neosho Shoal Creek WWTP. Effluent from the Neosho Crowder WWTP mixes with effluent from the Neosho Shoal Creek WWTP just prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Prior to the mixing of the two effluents, the permittee has the ability to collect samples of effluent from a Parshall Flume at the Neosho Shoal Creek WWTP. Therefore, Internal Monitoring Point #IP5 is located in the effluent stream which includes only the Neosho Shoal Creek WWTP. Monitoring at this location is necessary so the permittee can collect samples to determine compliance with technology based requirements for the Neosho Shoal Creek WWTP prior to the mixing of the two effluents.

Legal Description: NE ¼, NE ¼, Sec. 13, T25N, R32W, Newton County  
UTM Coordinates: X= 377612, Y= 4083922

**Permitted Feature #SM1 – Instream (Upstream) Monitoring Location at Neosho Shoal Creek Wastewater Treatment Plant**

Instream monitoring location – See Special Condition #20

Receiving Stream and ID: Shoal Creek (P) (3222) 303(d) List  
First Classified Stream and ID: Shoal Creek (P) (3222) 303(d) List  
USGS Basin & Sub-watershed No.: (11070207-0804)

**Permitted Feature #SM2 – Instream (Downstream) Monitoring Location at Neosho Shoal Creek Wastewater Treatment Plant**

Instream monitoring location – ¼ mile downstream of Outfall #001 to ensure samples are taken outside of the mixing zone.

Receiving Stream and ID: Shoal Creek (P) (3222) 303(d) List  
First Classified Stream and ID: Shoal Creek (P) (3222) 303(d) List  
USGS Basin & Sub-watershed No.: (11070207-0804)

| <b><u>OUTFALL #001:</u></b><br>Main Facility Outfall at Neosho Shoal Creek WWTP                                                                                                                                                                                                                                                                                                  | <b>TABLE A-1.</b><br><b>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                              |                |                 |                         |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|----------------|-----------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect through <b><u>April 30, 2018</u></b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                      |                              |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                            | UNITS                                                                                | INTERIM EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      | DAILY MAXIMUM                | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                                             | MGD                                                                                  | *                            |                | *               | once/day                | 24 hr. total |
| Ammonia as N                                                                                                                                                                                                                                                                                                                                                                     | mg/L                                                                                 | *                            |                | *               | twice/month             | grab         |
| <i>E. coli</i> (Note 1)                                                                                                                                                                                                                                                                                                                                                          | #/100mL                                                                              |                              | 630            | 126             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2017</u></b> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                  |                                                                                      |                              |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                            | UNITS                                                                                | MINIMUM                      |                | MAXIMUM         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                                  | SU                                                                                   | 6.0                          |                | 9.0             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2017</u></b> .                                                                                                                                                                                                                                                              |                                                                                      |                              |                |                 |                         |              |

| <u><b>OUTFALL #001:</b></u><br>Main Facility Outfall at Neosho Shoal Creek WWTP                                                                                                                                                                                                                                                                                         | <b>TABLE A-2.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u><b>May 1, 2018</b></u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                    |                            |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                                    | MGD                                                                                | *                          |                | *               | once/day                | 24 hr. total |
| Ammonia as N<br>(Apr 1 – Sep 30)<br>(Oct 1 – Mar 31)                                                                                                                                                                                                                                                                                                                    | mg/L                                                                               | 6.1<br>11.9                |                | 1.2<br>2.2      | twice/month             | grab         |
| <i>E. coli</i> (Note 1)                                                                                                                                                                                                                                                                                                                                                 | #/100mL                                                                            |                            | 630            | 126             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2018</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                       |                                                                                    |                            |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | MINIMUM                    |                | MAXIMUM         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                         | SU                                                                                 | 6.0                        |                | 9.0             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2018</u> .                                                                                                                                                                                                                                                                   |                                                                                    |                            |                |                 |                         |              |

\* Monitoring requirement only.

\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 1 – Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean. The Weekly Average for *E. coli* will be expressed as a geometric mean if more than one (1) sample is collected during a calendar week (Sunday through Saturday).

| OUTFALL #001:<br>Main Facility Outfall at Neosho Shoal<br>Creek WWTP                                                                                                                                                                                                                                                                                               |       | TABLE A-3.<br>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                   |                    |                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------|-------------------|--------------------|--------------------------|----------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b>May 1, 2017</b> and remain in effect through <b>April 30, 2018</b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                        |                   |                    |                          |                |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                              | UNITS | INTERIM EFFLUENT<br>LIMITATIONS                                        |                   |                    | MONITORING REQUIREMENTS  |                |
|                                                                                                                                                                                                                                                                                                                                                                    |       | DAILY<br>MAXIMUM                                                       | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                       | mg/L  | 15                                                                     |                   | 10                 | once/quarter***          | grab           |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                     | mg/L  | *                                                                      |                   | *                  | once/quarter***          | grab           |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                      |                   | *                  | once/quarter***          | grab           |
| Phenol                                                                                                                                                                                                                                                                                                                                                             | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | 2.9                                                                    |                   | 1.0                | once/quarter***          | composite**    |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                  | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                           | µg/L  | *                                                                      |                   | *                  | once/quarter***          | grab           |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | 36                                                                     |                   | 17.1               | once/quarter***          | composite**    |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                   | *                  | once/quarter***          | composite**    |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2017</u> .                                                                                                                                                                                                                                                            |       |                                                                        |                   |                    |                          |                |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Quarterly Parameters                                 | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

| OUTFALL #001:<br>Main Facility Outfall at Neosho Shoal<br>Creek WWTP                                                                                                                                                                                                                                                                                             |       | TABLE A-4.<br>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b>May 1, 2018</b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                      |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS | FINAL EFFLUENT LIMITATIONS                                           |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                  |       | DAILY MAXIMUM                                                        | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                     | mg/L  | 15                                                                   |                | 10              | once/quarter***         | grab        |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                    |                | *               | once/quarter***         | grab        |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                 | mg/L  | *                                                                    |                | *               | once/quarter***         | grab        |
| Phenol                                                                                                                                                                                                                                                                                                                                                           | µg/L  | 4,200.5                                                              |                | 1,316.3         | once/quarter***         | composite** |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | 0.6                                                                  |                | 0.3             | once/quarter***         | composite** |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                | µg/L  | *                                                                    |                | *               | once/quarter***         | composite** |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                         | µg/L  | *                                                                    |                | *               | once/quarter***         | grab        |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | *                                                                    |                | *               | once/quarter***         | composite** |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 1,849.6                                                              |                | 702.5           | once/quarter***         | composite** |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                    |                | *               | once/quarter***         | composite** |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | *                                                                    |                | *               | once/quarter***         | composite** |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | *                                                                    |                | *               | once/quarter***         | composite** |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                      | µg/L  | 9.2                                                                  |                | 3.2             | once/quarter***         | composite** |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                    |                | *               | once/quarter***         | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> .                                                                                                                                                                                                                                                          |       |                                                                      |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Quarterly Parameters                                 | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

| <b><u>OUTFALL #002:</u></b><br>Discharge at Neosho Crowder WWTP                                                                                                                                                                                                                                                                                                                  | <b>TABLE A-5.</b><br><b>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                              |                |                 |                         |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect through <b><u>April 30, 2022</u></b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                      |                              |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                            | UNITS                                                                                | INTERIM EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      | DAILY MAXIMUM                | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                                 | lbs/day                                                                              | *                            |                |                 | once/day                | grab        |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2017</u></b> .                                                                                                                                                                                                                                                              |                                                                                      |                              |                |                 |                         |             |

| <b><u>OUTFALL #002:</u></b><br>Discharge at Neosho Crowder WWTP                                                                                                                                                                                                                                                                                                         | <b>TABLE A-6.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b><u>May 1, 2022</u></b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                    |                            |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                        | lbs/day                                                                            | 12.51                      |                |                 | once/day                | grab        |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2022</u></b> .                                                                                                                                                                                                                                                     |                                                                                    |                            |                |                 |                         |             |

| <b><u>INTERNAL MONITORING</u></b><br><b><u>POINT #IP2:</u></b><br>Discharge at Golf Course Irrigation<br>Storage Ponds                                                                                                                                                                                                                                                  | <b>TABLE A-7.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                    |                            |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                        | mg/L                                                                               | *                          |                | *               | once/quarter***         | grab        |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2017</u> .                                                                                                                                                                                                                                                                 |                                                                                    |                            |                |                 |                         |             |

\* Monitoring requirement only.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Internal Monitoring Point #IP2 – Total Phosphorus    | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

| <u>OUTFALL #002 &amp; INTERNAL MONITORING POINT #IP2:</u><br>Discharge at Neosho Crowder WWTP & Golf Course Irrigation Storage Ponds                                                                                                                                                                                                                             |         | TABLE A-8.<br>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------|----------------|-----------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u>May 1, 2017</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |         |                                                                      |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS   | FINAL EFFLUENT LIMITATIONS                                           |                |                 | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                  |         | DAILY MAXIMUM                                                        | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                             | MGD     | *                                                                    |                | *               | once/day                | 24 hr. total |
| Biochemical Oxygen Demand <sub>5</sub>                                                                                                                                                                                                                                                                                                                           | mg/L    |                                                                      | 15             | 10              | once/week               | composite**  |
| Total Suspended Solids                                                                                                                                                                                                                                                                                                                                           | mg/L    |                                                                      | 20             | 15              | once/week               | composite**  |
| Ammonia as N<br>(Apr 1 – Sep 30)<br>(Oct 1 – Mar 31)                                                                                                                                                                                                                                                                                                             | mg/L    | 3.6<br>7.5                                                           |                | 1.4<br>2.9      | twice/month             | grab         |
| E. coli (Note 2)                                                                                                                                                                                                                                                                                                                                                 | #/100mL | 126                                                                  |                | *               | once/week               | grab         |
| Total Residual Chlorine (Note 3)                                                                                                                                                                                                                                                                                                                                 | µg/L    | < 130                                                                |                | < 130           | once/week               | grab         |
| Nitrates as N                                                                                                                                                                                                                                                                                                                                                    | mg/L    | *                                                                    |                | *               | once/month              | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                |         |                                                                      |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS   | MINIMUM                                                              |                | MAXIMUM         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                  | SU      | 6.5                                                                  |                | 9.0             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                            |         |                                                                      |                |                 |                         |              |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 2 –Effluent limits of 126 #/100 mL daily maximum and monitoring only for monthly average for *E. coli* are applicable year round due to losing stream designation. No more than 10% of samples over the course of a calendar year shall exceed the 126 #/100 mL daily maximum.

Note 3 – This permit contains a Total Residual Chlorine (TRC) limit.

- The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be 17 µg/L (daily maximum limit) and 8 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 µg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit. Measured values greater than or equal to the minimum quantification level of 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/L will be considered to be in compliance with the permit limitation.
- Disinfection is required year-round.
- Do not chemically de-chlorinate **if it is not needed to meet the limits in your permit.**
- If no chlorine was used in a given sampling period, an actual analysis for TRC is not necessary. Simply report as “0 µg/L” for TRC.

| <u>OUTFALL #002 &amp; INTERNAL MONITORING POINT #IP2:</u><br>Discharge at Neosho Crowder WWTP & Golf Course Irrigation Storage Ponds                                                                                                                                                                                                                               |       | TABLE A-9.<br>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b>May 1, 2017</b> and remain in effect through <b>April 30, 2018</b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                        |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                              | UNITS | INTERIM EFFLUENT LIMITATIONS                                           |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                    |       | DAILY MAXIMUM                                                          | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Hardness                                                                                                                                                                                                                                                                                                                                                     | mg/L  | *                                                                      |                | *               | once/quarter***         | grab        |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                       | mg/L  | 15                                                                     |                | 10              | once/quarter***         | grab        |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                     | mg/L  | *                                                                      |                | *               | once/quarter***         | grab        |
| 1,2-dichloroethane                                                                                                                                                                                                                                                                                                                                                 | µg/L  | 10.05                                                                  |                | 5.00            | once/quarter***         | grab        |
| 1,1,1-trichloroethane                                                                                                                                                                                                                                                                                                                                              | µg/L  | 402.0                                                                  |                | 200.0           | once/quarter***         | grab        |
| 1,1,2-trichloroethane                                                                                                                                                                                                                                                                                                                                              | µg/L  | 10.05                                                                  |                | 5.00            | once/quarter***         | grab        |
| Cyanide, Amenable to Chlorination<br>(Note 4, Page 11)                                                                                                                                                                                                                                                                                                             | µg/L  | < 10                                                                   |                | < 10            | once/quarter***         | grab        |
| Phenol                                                                                                                                                                                                                                                                                                                                                             | µg/L  | 201.0                                                                  |                | 100.0           | once/quarter***         | composite** |
| Sulfates                                                                                                                                                                                                                                                                                                                                                           | µg/L  | 502.5                                                                  |                | 250.0           | once/quarter***         | composite** |
| Boron, Total Dissolved                                                                                                                                                                                                                                                                                                                                             | µg/L  | 4,020.0                                                                |                | 2,000.0         | once/quarter***         | composite** |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | 0.6                                                                    |                | 0.3             | once/quarter***         | composite** |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                  | µg/L  | 348                                                                    |                | 174             | once/quarter***         | composite** |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                           | µg/L  | 16                                                                     |                | 8               | once/quarter***         | grab        |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 24                                                                     |                | 12              | once/quarter***         | composite** |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | 9.7                                                                    |                | 5.0             | once/quarter***         | composite** |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | 0.9                                                                    |                | 0.5             | once/quarter***         | composite** |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 131                                                                    |                | 65              | once/quarter***         | composite** |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | 295                                                                    |                | 147             | once/quarter***         | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2017</u> .                                                                                                                                                                                                                                                            |       |                                                                        |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table on Page 11 for quarterly sampling requirements.

| <u>OUTFALL #002 &amp; INTERNAL MONITORING POINT #IP2:</u><br>Discharge at Neosho Crowder WWTP & Golf Course Irrigation Storage Ponds                                                                                                                                                                                                                             |       | TABLE A-10.<br>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b>May 1, 2018</b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                       |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS | FINAL EFFLUENT LIMITATIONS                                            |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                  |       | DAILY MAXIMUM                                                         | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Hardness                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                     |                | *               | once/quarter***         | grab        |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                     | mg/L  | 15                                                                    |                | 10              | once/quarter***         | grab        |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                     |                | *               | once/quarter***         | grab        |
| 1,2-dichloroethane                                                                                                                                                                                                                                                                                                                                               | µg/L  | 10.05                                                                 |                | 5.00            | once/quarter***         | grab        |
| 1,1,1-trichloroethane                                                                                                                                                                                                                                                                                                                                            | µg/L  | 402.0                                                                 |                | 200.0           | once/quarter***         | grab        |
| 1,1,2-trichloroethane                                                                                                                                                                                                                                                                                                                                            | µg/L  | 10.05                                                                 |                | 5.00            | once/quarter***         | grab        |
| Cyanide, Amenable to Chlorination<br>(Note 4, Page 11)                                                                                                                                                                                                                                                                                                           | µg/L  | < 10                                                                  |                | < 10            | once/quarter***         | grab        |
| Phenol                                                                                                                                                                                                                                                                                                                                                           | µg/L  | 201.0                                                                 |                | 100.0           | once/quarter***         | composite** |
| Sulfates                                                                                                                                                                                                                                                                                                                                                         | µg/L  | 502.5                                                                 |                | 250.0           | once/quarter***         | composite** |
| Boron, Total Dissolved                                                                                                                                                                                                                                                                                                                                           | µg/L  | 4,020.0                                                               |                | 2,000.0         | once/quarter***         | composite** |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | 0.6                                                                   |                | 0.3             | once/quarter***         | composite** |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                | µg/L  | 210.2                                                                 |                | 104.8           | once/quarter***         | composite** |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                         | µg/L  | 15.0                                                                  |                | 7.5             | once/quarter***         | grab        |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | 22.0                                                                  |                | 11.0            | once/quarter***         | composite** |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                     |                | *               | once/quarter***         | composite** |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 9.7                                                                   |                | 4.8             | once/quarter***         | composite** |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | 0.8                                                                   |                | 0.4             | once/quarter***         | composite** |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | 128.9                                                                 |                | 64.3            | once/quarter***         | composite** |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                      | µg/L  | *                                                                     |                | *               | once/quarter***         | composite** |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 180.7                                                                 |                | 90.1            | once/quarter***         | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> .                                                                                                                                                                                                                                                          |       |                                                                       |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table on Page 11 for quarterly sampling requirements.



| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Quarterly Parameters                                 | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

Note 4 – The Water Quality Based Effluent Limit for Cyanide amenable to chlorination was calculated to be 8.2 µg/L (daily maximum limit) and 4.1 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved Cyanide amenable to chlorination methods. The Department has determined the current acceptable ML of Cyanide Amenable to Chlorination (CATC) to be 10 µg/L when using SM 4500-CN<sup>-</sup>G. Cyanides Amenable to Chlorination after Distillation in *Standard Methods for the Examination of Water and Wastewater*, 22<sup>nd</sup>. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 10 µg/L will be considered violations of the permit and values less than the minimum quantification level of 10 µg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of cyanide in excess of the effluent limits stated in the permit.

| <u><b>INTERNAL MONITORING</b></u><br><b>POINT #IP3:</b><br>Effluent Monitoring during Normal<br>Operations for Neosho Crowder WWTP                                                                                                                                                                                                                               |       | <b>TABLE A-11.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                   |                               |                          |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------------------|-------------------------------|--------------------------|----------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b>May 1, 2017</b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                                     |                   |                               |                          |                |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS | FINAL EFFLUENT LIMITATIONS                                                          |                   |                               | MONITORING REQUIREMENTS  |                |
|                                                                                                                                                                                                                                                                                                                                                                  |       | DAILY<br>MAXIMUM                                                                    | WEEKLY<br>AVERAGE | MONTHLY<br>AVERAGE            | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| Flow                                                                                                                                                                                                                                                                                                                                                             | MGD   | *                                                                                   |                   | *                             | once/day                 | 24 hr. total   |
| Biochemical Oxygen Demand <sub>5</sub>                                                                                                                                                                                                                                                                                                                           | mg/L  |                                                                                     | 65                | 45                            | once/week                | composite**    |
| Total Suspended Solids                                                                                                                                                                                                                                                                                                                                           | mg/L  |                                                                                     | 65                | 45                            | once/week                | composite**    |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                |       |                                                                                     |                   |                               |                          |                |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS | MINIMUM                                                                             |                   | MAXIMUM                       | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                  | SU    | 6.0                                                                                 |                   | 9.0                           | once/week                | grab           |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                            |       |                                                                                     |                   |                               |                          |                |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            |       |                                                                                     | UNITS             | MONTHLY<br>AVERAGE<br>MINIMUM | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| Biochemical Oxygen Demand <sub>5</sub> – Percent Removal (Note 5, Page 12)                                                                                                                                                                                                                                                                                       |       |                                                                                     | %                 | 65                            | once/month               | calculated     |
| Total Suspended Solids – Percent Removal (Note 5, Page 12)                                                                                                                                                                                                                                                                                                       |       |                                                                                     | %                 | 65                            | once/month               | calculated     |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                            |       |                                                                                     |                   |                               |                          |                |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 5 – Influent sampling is not required during periods of land application when the facility does not discharge effluent. Influent samples are to be collected at Internal Monitoring Point #IP1 prior to any treatment process in order to determine removal efficiency at the Neosho Crowder WWTP. Percent removal is calculated by the following formula:  $[(\text{Influent at \#IP1} - \text{Effluent at \#IP3}) / \text{Influent at \#IP1}] \times 100\% = \text{Percent Removal}$ . The Monthly Average Minimum Percent removal is to be reported as the average of all daily calculated removal efficiencies. Influent samples are to be collected as a 24-hour composite sample, composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

| <b><u>INTERNAL MONITORING</u></b><br><b><u>POINT #IP5:</u></b><br>Effluent Monitoring Location for Neosho<br>Shoal Creek WWTP prior to Effluents<br>Mixing                                                                                                                                                                                                              | <b>TABLE A-12.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                         |                         |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------|----------------|-------------------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                     |                            |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                               | FINAL EFFLUENT LIMITATIONS |                |                         | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                                    | MGD                                                                                 | *                          |                | *                       | once/day                | 24 hr. total |
| Biochemical Oxygen Demand <sub>5</sub>                                                                                                                                                                                                                                                                                                                                  | mg/L                                                                                |                            | 45             | 30                      | once/week               | composite**  |
| Total Suspended Solids                                                                                                                                                                                                                                                                                                                                                  | mg/L                                                                                |                            | 45             | 30                      | once/week               | composite**  |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                       |                                                                                     |                            |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                               | MINIMUM                    |                | MAXIMUM                 | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                         | SU                                                                                  | 6.0                        |                | 9.0                     | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                                   |                                                                                     |                            |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |                            | UNITS          | MONTHLY AVERAGE MINIMUM | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Biochemical Oxygen Demand <sub>5</sub> – Percent Removal (Note 6)                                                                                                                                                                                                                                                                                                       |                                                                                     |                            | %              | 85                      | once/month              | calculated   |
| Total Suspended Solids – Percent Removal (Note 6)                                                                                                                                                                                                                                                                                                                       |                                                                                     |                            | %              | 85                      | once/month              | calculated   |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                                   |                                                                                     |                            |                |                         |                         |              |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 6 – Influent sampling is not required during periods of land application when the facility does not discharge effluent. Influent samples are to be collected at Internal Monitoring Point #IP4 prior to any treatment process in order to determine removal efficiency at the Neosho Shoal Creek WWTP. Percent removal is calculated by the following formula:  $[(\text{Influent at \#IP4} - \text{Effluent at \#IP5}) / \text{Influent at \#IP4}] \times 100\% = \text{Percent Removal}$ . The Monthly Average Minimum Percent removal is to be reported as the average of all daily calculated removal efficiencies. Influent samples are to be collected as a 24-hour composite sample, composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

| <u><b>OUTFALL #001:</b></u><br>Main Facility Outfall at Neosho Shoal Creek WWTP                                                                                                                                                                                                                                                                                         | <b>TABLE A-13.</b><br><b>WHOLE EFFLUENT TOXICITY</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u><b>May 1, 2017</b></u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                                                       |                            |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                                                                 | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Acute Whole Effluent Toxicity (Note 7)                                                                                                                                                                                                                                                                                                                                  | TU <sub>a</sub>                                                                                                       | *                          |                |                 | once/year               | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u><b>ANNUALLY</b></u> ; THE FIRST REPORT IS DUE <u><b>JANUARY 28, 2018</b></u> .                                                                                                                                                                                                                                                 |                                                                                                                       |                            |                |                 |                         |             |
| Chronic Whole Effluent Toxicity (Note 8)                                                                                                                                                                                                                                                                                                                                | TU <sub>c</sub>                                                                                                       | *                          |                |                 | once/permit cycle       | composite** |
| <u><b>WET TEST</b></u> REPORTS SHALL BE SUBMITTED <u><b>ONCE PER PERMIT CYCLE</b></u> ; THE FIRST REPORT IS DUE <u><b>JANUARY 28, 2022</b></u> .                                                                                                                                                                                                                        |                                                                                                                       |                            |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

Note 7 – The Acute WET test shall be conducted once per year during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 5<sup>th</sup> year of the permit cycle. See Special Condition #24 for additional requirements.

Note 8 –The Chronic WET test shall be conducted during the 4<sup>th</sup> year of the permit cycle. See Special Condition #25 for additional requirements.

| <b><u>PERMITTED FEATURE #SM1:</u></b><br>Instream (Upstream) Monitoring Location<br>at Neosho Shoal Creek WWTP                       | <b>TABLE B-1.</b><br><b>INSTREAM MONITORING REQUIREMENTS</b> |                         |  |                    |                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------|--|--------------------|--------------------------|----------------|
| The monitoring requirements shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. |                                                              |                         |  |                    |                          |                |
| PARAMETER(S)                                                                                                                         | UNITS                                                        | MONITORING REQUIREMENTS |  |                    |                          |                |
|                                                                                                                                      |                                                              | DAILY<br>MAXIMUM        |  | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| Total Nitrogen                                                                                                                       | mg/L                                                         | *                       |  | *                  | once/quarter***          | grab           |
| Total Phosphorus                                                                                                                     | mg/L                                                         | *                       |  | *                  | once/quarter***          | grab           |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>QUARTERLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JULY 28, 2017</u></b> .                |                                                              |                         |  |                    |                          |                |

\* Monitoring requirement only.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                                                                          |                          |
|-------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Instream (Upstream) Monitoring Location at Neosho Shoal Creek WWTP – Total Nitrogen and Total Phosphorus | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter                                                     | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter                                                     | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter                                                     | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter                                                     | January 28 <sup>th</sup> |

|                                                                                                                                      |                                                              |                         |  |                    |                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------|--|--------------------|--------------------------|----------------|
| <b><u>PERMITTED FEATURE #SM2:</u></b><br>Instream (Downstream) Monitoring<br>Location at Neosho Shoal Creek WWTP                     | <b>TABLE B-2.</b><br><b>INSTREAM MONITORING REQUIREMENTS</b> |                         |  |                    |                          |                |
| The monitoring requirements shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. |                                                              |                         |  |                    |                          |                |
| PARAMETER(S)                                                                                                                         | UNITS                                                        | MONITORING REQUIREMENTS |  |                    |                          |                |
|                                                                                                                                      |                                                              | DAILY<br>MAXIMUM        |  | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| Total Hardness                                                                                                                       | mg/L                                                         | *                       |  | *                  | once/quarter***          | grab           |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>QUARTERLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JULY 28, 2017</u></b> .                |                                                              |                         |  |                    |                          |                |

\* Monitoring requirement only.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                                                          |                          |
|-------------------------------|-----------------------------|------------------------------------------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Instream (Downstream) Monitoring Location at Neosho<br>Shoal Creek WWTP – Total Hardness | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter                                     | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter                                     | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter                                     | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter                                     | January 28 <sup>th</sup> |

#### **C. STANDARD CONDITIONS**

In addition to specified conditions stated herein, this permit is subject to the attached **Parts I, II, & III** standard conditions dated **August 1, 2014, May 1, 2013, and March 1, 2015**, and hereby incorporated as though fully set forth herein.

#### **D. SPECIAL CONDITIONS**

1. This permit establishes final ammonia limitations based on Missouri's current Water Quality Standard. On August 22, 2013, the U.S. Environmental Protection Agency (EPA) published a notice in the Federal Register announcing of the final national recommended ambient water quality criteria for protection of aquatic life from the effects of ammonia in freshwater. The EPA's guidance, Final Aquatic Life Ambient Water Quality Criteria for Ammonia – Fresh Water 2013, is not a rule, nor automatically part of a state's water quality standards. States must adopt new ammonia criteria consistent with EPA's published ammonia criteria into their water quality standards that protect the designated uses of the water bodies. The Department of Natural Resources has initiated stakeholder discussions on how to best incorporate these new criteria into the State's rules. A date for when this rule change will occur has not been determined. Also, refer to Section VI of this permit's factsheet for further information including estimated future effluent limits for this facility. It is recommended the permittee view the Department's 2013 EPA criteria Factsheet located at <http://dnr.mo.gov/pubs/pub2481.htm>.
2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test including acute and chronic Whole Effluent Toxicity (WET) tests, or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.
  - (d) Incorporate the requirement to develop a pretreatment program pursuant to 40 CFR 403.8(a) when the Director of the Water Protection Program determines that a pretreatment program is necessary due to any new introduction of pollutants into the Publically Owned Treatment Works or any substantial change in the volume or character of pollutants being introduced.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

**D. SPECIAL CONDITIONS (continued)**

3. All outfalls must be clearly marked in the field. This does not include instream monitoring locations.
4. Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability.
5. Report as no-discharge when a discharge does not occur during the report period. For instream samples, report as “no flow” if no stream flow occurs during the report period.
6. Water Quality Standards
  - (a) To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
  - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
    - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
    - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
    - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
    - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
    - (5) There shall be no significant human health hazard from incidental contact with the water;
    - (6) There shall be no acute toxicity to livestock or wildlife watering;
    - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
    - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
7. Changes in existing pollutants or the addition of new pollutants to the treatment facility

The permittee must provide adequate notice to the Director of the following:

  - (a) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and
  - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
  - (c) For purposes of this paragraph, adequate notice shall include information on:
    - (1) the quality and quantity of effluent introduced into the POTW, and
    - (2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
8. Reporting of Non-Detects:
  - (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
  - (b) The permittee shall not report a sample result as “Non-Detect” without also reporting the detection limit of the test. Reporting as “Non Detect” without also including the detection limit will be considered failure to report, which is a violation of this permit.
  - (c) The permittee shall provide the “Non-Detect” sample result using the less than sign and the minimum detection limit (e.g. <10).
  - (d) Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.
  - (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
  - (f) When calculating monthly averages, one-half of the method detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the “<MDL” shall be reported as indicated in item (c).
9. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).

**D. SPECIAL CONDITIONS (continued)**

10. The permittee shall comply with any applicable requirements listed in 10 CSR 20-9, unless the facility has received written notification that the Department has approved a modification to the requirements. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the Department for review and, if deemed necessary, approval.
11. The permittee shall develop and implement a program for maintenance and repair of the collection system. The recommended guidance is the US EPA's Guide For Evaluating Capacity, Management, Operation, And Maintenance (CMOM) Programs At Sanitary Sewer Collection Systems (Document number EPA 305-B-05-002) or the Departments' CMOM Model located at <http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc>. For additional information regarding the Departments' CMOM Model, see the CMOM Plan Model Guidance document at <http://dnr.mo.gov/pubs/pub2574.htm>.  
  
The permittee shall also submit a report to the Southwest Regional Office annually, by January 28<sup>th</sup>, for the previous calendar year. The report shall contain the following information:
  - (a) A summary of the efforts to locate and eliminate sources of excessive infiltration and inflow into the collection system serving the facility for the previous year.
  - (b) A summary of the general maintenance and repairs to the collection system serving the facility for the previous year.
  - (c) A summary of any planned maintenance and repairs to the collection system serving the facility for the upcoming calendar year. This list shall include locations (GPS, 911 address, manhole number, etc.) and actions to be taken.
12. Bypasses are not authorized at this facility unless they meet the criteria in 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3), and with Standard Condition Part I, Section B, subsection 2.b. Bypasses are to be reported to the Southwest Regional Office or by using the online Sanitary Sewer Overflow/Facility Bypass Application, located at: <http://dnr.mo.gov/modnrcag/> during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. Blending, which is the practice of combining a partially-treated wastewater process stream with a fully-treated wastewater process stream prior to discharge, is not considered a form of bypass. If the permittee wishes to utilize blending, the permittee shall file an application to modify this permit to facilitate the inclusion of appropriate monitoring conditions.
13. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
14. At least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain closed except when temporarily opened by; the permittee to access the facility, perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department. The gate shall be closed and locked when the facility is not staffed.
15. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
16. An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.
17. An all-weather access road shall be provided to the treatment facility.
18. The discharge from the wastewater treatment facility shall be conveyed to the receiving stream via a closed pipe or a paved or rip-rapped open channel. Sheet or meandering drainage is not acceptable. The outfall sewer shall be protected against the effects of floodwater, ice or other hazards as to reasonably insure its structural stability and freedom from stoppage. The outfall shall be maintained so that a sample of the effluent can be obtained at a point after the final treatment process and before the discharge mixes with the receiving waters.
19. Land application of biosolids shall be conducted in accordance with Standard Conditions III and a Department approved biosolids management plan. Land application of biosolids during frozen, snow covered, or saturated soil conditions in accordance with the additional requirements specified in WQ426 shall occur only with prior approval from the Department.

**D. SPECIAL CONDITIONS (continued)**

20. Receiving Water Monitoring Conditions
- (a) Downstream receiving water samples should be taken at the location(s) specified on Page 2 of this permit. In the event that a safe, accessible location is not present at the location(s) listed, a suitable location can be negotiated with the Department. Samples should be taken at least four feet from the bank or from the middle of the stream (whichever is less) and 6-inches below the surface. The upstream receiving water sample should be collected at a point upstream from any influence of the effluent, where the water is visibly flowing down stream.
  - (b) When conducting in-stream monitoring, the permittee shall record observations that include: the time of day, weather conditions, unusual stream characteristics (e.g., septic conditions, algae growth, etc.), the stream segment (e.g., riffle, pool or run) from where the sample was collected. These observations shall be submitted with the sample results.
  - (c) Samples shall not be collected from areas with especially turbulent flow, still water or from the stream bank, unless these conditions are representative of the stream reach or no other areas are available for sample collection. Sampling should not be made when significant precipitation has occurred recently. The sampling event should be terminated and rescheduled if any of the following conditions occur:
    - If turbidity in the stream increases notably; or
    - If rainfall over the past two weeks exceeds 2.5 inches or exceeds 1 inch in the last 24 hours
  - (d) Always use the correct sampling technique and handling procedure specified for the parameter of interest. Please refer to the latest edition of Standard Methods for the Examination of Water and Wastewater for further discussion of proper sampling techniques. All analyses must be conducted in accordance with an approved EPA method. Meters shall be calibrated immediately (within 1 hour) prior to the sampling event.
  - (e) Please contact the Department if you need additional instructions or assistance.
21. The permittee shall implement and enforce its approved pretreatment program in accordance with the requirements of 10 CSR 20-6.100. The approved pretreatment program is hereby incorporated by reference.

The permittee shall submit to the Department on or before March 31<sup>st</sup> of each year a report briefly describing its pretreatment activities during the previous calendar year. At a minimum, the report shall include the following:

- (a) An updated list of the Permittee's Industrial Users, including their names and addresses, or a list of deletions and additions keyed to a previously submitted list. The Permittee shall provide a brief explanation of each deletion. This list shall identify which Industrial Users are subject to categorical pretreatment Standards and specify which Standards are applicable to each Industrial User. The list shall indicate which Industrial Users are subject to local standards that are more stringent than the categorical Pretreatment Standards. The Permittee shall also list the Industrial Users that are subject only to local Requirements;
- (b) A summary of the status of Industrial User compliance over the reporting period;
- (c) A summary of compliance and enforcement activities (including inspections) conducted by the Permittee during the reporting period; and
- (d) Any other relevant information requested by the Department.

Pursuant to 40 CFR 122.44(j)(2)(ii), the permittee shall submit to the Department a written technical evaluation of the need to revise local limits under 40 CFR 403.5(c)(1) along with the application for renewal of this permit.

22. Stormwater Pollution Prevention Plan (SWPPP): A SWPPP must be developed and implemented within 180 days of the effective date of the permit. Through implementation of the SWPPP, the permittee shall minimize the release of pollutants in stormwater from the facility to the waters of the state. The SWPPP shall be developed in consultation with the concepts and methods described in the following document: Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.
- (a) The SWPPP must identify any stormwater outfall from the facility and Best Management Practices (BMPs) used to prevent or reduce the discharge of contaminants in stormwater. The stormwater outfalls shall either be marked in the field or clearly marked on a map and maintained with the SWPPP.
  - (b) The SWPPP must include a schedule and procedures for a once per month routine site inspection.
    - (1) The monthly routine inspection shall be documented in a brief written report, which shall include:
      - i. The person(s) conducting the inspection.
      - ii. The inspection date and time.
      - iii. Weather information for the day of the inspection.
      - iv. Precipitation information for the entire period since the last inspection.
      - v. Description of the discharges observed, including visual quality of the discharges (sheen, turbid, etc.).
      - vi. Condition of BMPs

**D. SPECIAL CONDITIONS (continued)**

- vii. If BMPs were replaced or repaired.
  - viii. Observations and evaluations of BMP effectiveness.
  - ii. Any deficiency observed during the routine inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
  - iii. The routine inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
  - iv. The routine inspection reports shall be made available to Department personnel upon request.
  - (c) The SWPPP must include a schedule and procedures for a once per year comprehensive site inspection.
    - (1) The annual comprehensive inspection shall be documented in a written report, which shall include:
      - i. The person(s) conducting the inspection.
      - ii. The inspection date and time.
      - iii. Findings from the areas of your facility that were examined;
      - iv. All observations relating to the implementation of your control measures including:
        - 1. Previously unidentified discharges from the site,
        - 2. Previously unidentified pollutants in existing discharges,
        - 3. Evidence of, or the potential for, pollutants entering the drainage system;
        - 4. Evidence of pollutants discharging to receiving waters at all facility outfall(s), and the condition of and around the outfall, and
        - 5. Additional control measures needed to address any conditions requiring corrective action identified during the inspection.
      - v. Any required revisions to the SWPPP resulting from the inspection;
      - vi. Any incidence of noncompliance observed or a certification stating that the facility is in compliance with Special Condition D.22.
    - (2) Any deficiency observed during the comprehensive inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
    - (3) The comprehensive inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
    - (4) The comprehensive inspection reports shall be made available to Department personnel upon request.
  - (d) The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested.
  - (e) The SWPPP must be reviewed and updated at a minimum once per permit cycle, as site conditions or control measures change.
23. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP.
- (b) Permittee shall adhere to the following minimum Best Management Practices (BMPs):
    - (1) Minimize the exposure of industrial material storage areas, loading and unloading areas, dumpsters and other disposal areas, maintenance activities, and fueling operations to rain, snow, snowmelt, and runoff, by locating industrial materials and activities inside or protecting them with storm resistant coverings, if warranted and practicable.
    - (2) Provide good housekeeping practices on the site to prevent potential pollution sources from coming into contact with stormwater and provide collection facilities and arrange for proper disposal of waste products, including sludge.
    - (3) Implement a maintenance program to ensure that the structural control measures and industrial equipment is kept in good operating condition and to prevent or minimize leaks and other releases of pollutants.
    - (4) Prevent or minimize the spillage or leaks of fluids, oil, grease, fuel, etc. from equipment and vehicle maintenance, equipment and vehicle cleaning, or activities.
    - (5) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of straw bales, silt fences, or sediment basins, if needed.
    - (6) Provide stormwater runoff controls to divert, infiltrate, reuse, contain, or otherwise minimize pollutants in the stormwater discharge.
    - (7) Enclose or cover storage piles of salt or piles containing salt, used for deicing or other commercial or industrial purposes.
    - (8) Provide training to all employees who; work in areas where industrial materials or activities are exposed to stormwater, are responsible for stormwater inspections, are members of the Pollution Prevention Team. Training must cover the specific control measures and monitoring, inspection, planning, reporting and documentation requirements of this permit. Training is recommended annually for any applicable staff and whenever a new employee is hired who meets the description above.
    - (9) Eliminate and prevent unauthorized non-stormwater discharges at the facility.
    - (10) Minimize generation of dust and off-site tracking of raw, final, or waste materials by implementing appropriate control measures.



**D. SPECIAL CONDITIONS (continued)**

24. Acute Whole Effluent Toxicity (WET) tests shall be conducted as follows:
- (a) Freshwater Species and Test Methods: Species and short-term test methods for estimating the acute toxicity of NPDES effluents are found in the most recent edition of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA/821/R-02/012; Table IA, 40 CFR Part 136). The permittee shall concurrently conduct 48-hour, static, non-renewal toxicity tests with the following species:
    - o The fathead minnow, *Pimephales promelas* (Acute Toxicity EPA Test Method 2000.0).
    - o The daphnid, *Ceriodaphnia dubia* (Acute Toxicity EPA Test Method 2002.0).
  - (b) Chemical and physical analysis of the upstream control sample and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping. Where upstream receiving water is not available or known to be toxic, other approved control water may be used.
  - (c) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
  - (d) The Allowable Effluent Concentration (AEC) for this facility is 100% with the dilution series being: 100%, 50%, 25%, 12.5%, and 6.25%.
  - (e) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
  - (f) The facility must submit a full laboratory report for all toxicity testing. The report must include a quantification of acute toxic units ( $TU_a = 100/LC_{50}$ ) reported according to the test methods manual chapter on report preparation and test review. The Lethal Concentration 50 Percent ( $LC_{50}$ ) is the effluent concentration that would cause death in 50 percent of the test organisms at a specific time.
25. Chronic Whole Effluent Toxicity (WET) tests shall be conducted as follows:
- (a) Freshwater Species and Test Methods: Species and short-term test methods for estimating the chronic toxicity of NPDES effluents are found in the most recent edition of *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013; Table IA, 40 CFR Part 136). The permittee shall concurrently conduct 7-day, static, renewal toxicity tests with the following species:
    - o The fathead minnow, *Pimephales promelas* (Survival and Growth Test Method 1000.0).
    - o The daphnid, *Ceriodaphnia dubia* (Survival and Reproduction Test Method 1002.0).
  - (b) Chemical and physical analysis of the upstream control sample and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping. Where upstream receiving water is not available or known to be toxic, other approved control water may be used.
  - (c) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
  - (d) The Allowable Effluent Concentration (AEC) is 100%, the dilution series is: 100%, 50%, 25%, 12.5%, and 6.25%.
  - (e) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
  - (f) The facility must submit a full laboratory report for all toxicity testing. The report must include a quantification of chronic toxic units ( $TU_c = 100/IC_{25}$ ) reported according to the *Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* chapter on report preparation and test review. The 25 percent Inhibition Effect Concentration ( $IC_{25}$ ) is the toxic or effluent concentration that would cause 25 percent reduction in mean young per female or in growth for the test populations.
26. **Electronic Discharge Monitoring Report (eDMR) Submission System.**
- The permittee shall submit an eDMR Permit Holder and Certifier Registration form **within 90 days of the effective date** of this permit. Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure a timely, complete, accurate, and nationally-consistent set of data. Visit <http://dnr.mo.gov/pubs/pub2474.pdf> to access the Facility Participation Package which contains the eDMR Permit Holder and Certifier Registration form.

Once the permittee is activated in the eDMR system:

- (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. In regards to Standard Conditions Part I, Section B, #7, the eDMR system is currently the only Department approved reporting method for this permit.
- (b) Programmatic Reporting Requirements. The following reports (if required by this permit) must be electronically submitted as an attachment to the eDMR system until such a time when the current or a new system is available to allow direct input of the data:
  - (1) Collection System Maintenance Annual Reports;
  - (2) Schedule of Compliance Progress Reports;

#### **D. SPECIAL CONDITIONS (continued)**

- (3) Sludge/Biosolids Annual Reports;
    - i. In addition to the annual Sludge/Biosolids report submitted to the department, the permittee must submit Sludge/Biosolids Annual Reports electronically using EPA's NPDES Electronic Reporting Tool ("NeT")
  - (4) Pretreatment Program Reports;
  - (5) Any additional report required by the permit excluding bypass reporting.
- After such a system has been made available by the department, required data shall be directly input into the system by the next report due date.
- (c) Other actions. The following shall be submitted electronically after such a system has been made available by the department:
    - (1) Notices of Termination (NOTs);
    - (2) Bypass reporting. See Special Condition #12 for 24-hr. bypass reporting requirements.
  - (d) Electronic Submissions. To access the eDMR system, use the following link in your web browser: <https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx>.
  - (e) Waivers from Electronic Reporting. The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: <http://dnr.mo.gov/forms/780-2692-f.pdf>. The department will either approve or deny this electronic reporting waiver request within 120 calendar days. Only permittees with an approved waiver request may submit monitoring data and reports on paper to the Department for the period that the approved electronic reporting waiver is effective.

#### **E. SCHEDULE OF COMPLIANCE**

##### **Outfall #001:**

Ammonia. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than one (1) year of the effective date of this permit. The existing oxidation ditch facility employs technology capable of meeting the proposed final effluent limitations for ammonia, but discharge monitoring reports indicate the facility has not always been in compliance with the proposed limitations. Therefore this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

Phenol, Total Recoverable Cadmium, Total Recoverable Iron, & Total Recoverable Selenium. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than one (1) year of the effective date of this permit. As a result of a Reasonable Potential Analysis (RPA), it has been determined that the facility has a reasonable potential to exceed water quality standards for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

##### **Outfall #002:**

Total Phosphorus. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than five (5) years of the effective date of this permit.

1. The permittee shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits every 12 months from effective date.
2. Within 5 years of the effective date of this permit, the permittee shall attain compliance with the final effluent limits.

Please submit progress reports to the Missouri Department of Natural Resources via the Electronic Discharge Monitoring Report (eDMR) Submission System.

##### **Outfall #002 & Internal Monitoring Point #IP2:**

Total Recoverable Chromium (III), Dissolved Chromium (VI), Total Recoverable Copper, Total Recoverable Lead, Total Recoverable Mercury, Total Recoverable Nickel, & Total Recoverable Zinc. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than one (1) year of the effective date of this permit. As a result of technical mistakes noticed by the permit writer, this permit includes new and more stringent effluent limitations than those of the previous permit for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations and the limited amount of effluent data related to the above listed parameters, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

**MISSOURI DEPARTMENT OF NATURAL RESOURCES  
FACT SHEET  
FOR THE PURPOSE OF RENEWAL  
OF  
MO-0104906  
NEOSHO WASTEWATER TREATMENT PLANT**

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of stormwater from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Major.

**Part I – Facility Information**

Facility Type: POTW - SIC #4952

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

☒ - No.

Application Date: 07/18/16

Expiration Date: 12/11/16

**PERMITTED FEATURE(S) TABLE:**

| PERMITTED FEATURE                 | DESIGN FLOW (CFS)                                                                                                                                                                                | TREATMENT LEVEL         | EFFLUENT TYPE |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|
| Outfall #001                      | 4.65                                                                                                                                                                                             | Secondary               | Domestic      |
| Outfall #002                      | 4.65                                                                                                                                                                                             | Equivalent to Secondary | Domestic      |
| Outfall #003                      | <i>Discharge point to the Golf Course Irrigation Storage Ponds. No effluent limitations as effluent quality is monitored at Internal Monitoring Point #IP2.</i>                                  |                         |               |
| Internal Monitoring Point #IP1    | <i>Internal Monitoring Point – Location influent samples from Neosho Crowder WWTP are collected.</i>                                                                                             |                         |               |
| Internal Monitoring Point #IP2    | <i>Internal Monitoring Point – Location following full treatment from Neosho Crowder WWTP where monitoring of effluent sent to the Golf Course Irrigation Storage Ponds occurs.</i>              |                         |               |
| Internal Monitoring Point #IP3    | <i>Internal Monitoring Point – Location following full treatment from Neosho Crowder WWTP where monitoring of effluent sent to the Neosho Shoal Creek WWTP occurs prior to effluents mixing.</i> |                         |               |
| Internal Monitoring Point #IP4    | <i>Internal Monitoring Point – Location influent samples from Neosho Shoal Creek WWTP are collected.</i>                                                                                         |                         |               |
| Internal Monitoring Point #IP5    | <i>Internal Monitoring Point – Location following full treatment from Neosho Shoal Creek WWTP where monitoring of effluent occurs prior to effluents mixing.</i>                                 |                         |               |
| Instream Monitoring Location #SM1 | <i>Instream Monitoring Location – Upstream</i>                                                                                                                                                   |                         |               |
| Instream Monitoring Location #SM2 | <i>Instream Monitoring Location – Downstream</i>                                                                                                                                                 |                         |               |

### **Facility Description:**

This permit includes two wastewater treatment facilities which serve the City of Neosho. These facilities were previously permitted separately – Neosho Crowder WWTP (MO-0039926) and Neosho Shoal Creek WWTP (MO-0104906). During normal operations at the Neosho Crowder WWTP, effluent is sent to the Neosho Shoal Creek WWTP, where effluent from the two plants mix together prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Therefore, it has been determined by the permit writer that combining the two permits into one permit is appropriate.

#### **Outfall #001 – Main Facility Outfall at Neosho Shoal Creek WWTP**

Flow equalization basin / bar screen / 2 oxidation ditches / 2 final clarifiers / ultraviolet disinfection / aerobic sludge digester / 2 aerated sludge holding basins / sludge is land applied.

Design population equivalent is 30,000.

Design flow is 3.0 MGD.

Actual flow is 1.7 MGD.

Design sludge production is 630 dry tons/year.

#### **Outfall #002 – Discharge at Neosho Crowder WWTP (previously permitted as Outfall #001 in MO-0039926)**

Discharges at Outfall #002 occur only during high flow events. Typically flow from the Neosho Crowder WWTP is sent to the Neosho Shoal Creek WWTP.

Flow equalization basin / bar screen / 2 pre-aeration basins / 2 primary clarifiers / 3 trickling filters / recirculation basin / 3 secondary clarifiers / chlorine disinfection / chlorine contact basin / dechlorination / 2 primary aerobic sludge digesters / sludge drying bed / sludge is land applied.

Design population equivalent is 29,000.

Design flow is 3.0 MGD.

Actual flow is 0.92 MGD.

Design sludge production is 812 dry tons/year.

#### **Outfall #003 - Discharge Point to the Golf Course Irrigation Storage Ponds**

Outfall #003 has been identified in the permit in order to document the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds.

#### **Internal Monitoring Points #IP1 - #IP5**

It has been determined by the permit writer that the previous permit for Neosho Crowder WWTP (MO-0039926) be combined with the permit for Neosho Shoal Creek WWTP. In doing this, Internal Monitoring Points were created so that compliance with various requirements could be demonstrated.

- Internal Monitoring Point #IP1: location where Neosho Crowder WWTP influent monitoring occurs for the purposes of determining removal efficiency for the Neosho Crowder WWTP.
- Internal Monitoring Point #IP2: location where Neosho Crowder WWTP effluent monitoring occurs when the facility sends effluent to the golf course irrigation storage ponds.
- Internal Monitoring Point #IP3: location where Neosho Crowder WWTP effluent monitoring occurs when the facility sends effluent to the Neosho Shoal Creek WWTP. Internal Monitoring Point #IP3 is located at the Neosho Shoal Creek WWTP prior to the mixing of effluents from both plants before the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP.
- Internal Monitoring Point #IP4: location where Neosho Shoal Creek WWTP influent monitoring occurs for the purposes of determining removal efficiency for the Neosho Shoal Creek WWTP.
- Internal Monitoring Point #IP5: location where Neosho Shoal Creek WWTP effluent monitoring occurs prior to the mixing of effluents from both plants.

#### **Instream Monitoring Locations #SM1 & #SM2**

- #SM1: monitoring location in Shoal Creek (P) (3222) upstream of Outfall #001 at the Neosho Shoal Creek WWTP.
- #SM2: monitoring location in Shoal Creek (P) (3222) approximately ¼ mile downstream of Outfall #001 at the Neosho Shoal Creek WWTP to ensure samples are taken outside of the mixing zone.

#### **Previous Outfalls / Permitted Features from Neosho Crowder WWTP (previously permitted under MO-0039926)**

The previous permit for the Neosho Crowder WWTP included permitted features which have not been included in this permit. The previous permit required monitoring of fully treated effluent that is pumped from Neosho Crowder WWTP to the golf course irrigation storage ponds (previously identified as Outfall #002 in MO-0039926) for the purposes of land application of water from the ponds. The permit writer has determined that the land application of water from the golf course irrigation storage ponds does not need to be monitored in this permit, as the effluent sent to the golf course irrigation storage ponds is fully treated (including disinfection). Additionally, any sample that would be collected from the storage ponds would not be representative of the Neosho Crowder WWTP effluent quality as the sample would not be exclusively made up of Neosho Crowder WWTP effluent.

**Facility Description (continued):**

**Previous Outfalls / Permitted Features from Neosho Crowder WWTP (previously permitted under MO-0039926) (continued)**

The previous permit for the Neosho Crowder WWTP also required monitoring of water from the golf course irrigation storage ponds in the event of an overflow from the storage ponds (previously identified as Outfall #003 in MO-0039926). The permit writer has determined that water discharged during an overflow from the golf course irrigation storage ponds does not need to be monitored in this permit, as an overflow these ponds is not exclusively water sent to the storage ponds by the Neosho Crowder WWTP. Therefore, any overflow samples collected from the storage ponds would not be representative of the Neosho Crowder WWTP effluent quality as the sample would not be exclusively made up of Neosho Crowder WWTP effluent. Additionally, the permit writer has included Internal Monitoring Point #IP2 so that monitoring of the Neosho Crowder WWTP effluent can occur to demonstrate compliance with water quality standards before effluent enters the golf course irrigation storage ponds. This will ensure that if the ponds overflow, data relating to the Neosho Crowder WWTP effluent will be available. This permit also identifies the location where Neosho Crowder WWTP effluent enters the golf course irrigation storage ponds as Outfall #003.

The previous permit for the Neosho Crowder WWTP also required monitoring of fully treated effluent in the chlorine contact basin for the purposes of removal efficiency (previously identified as Outfall #004 in MO-0039926). The permit writer has included effluent monitoring at Outfall #002, Internal Monitoring Point #IP2, and Internal Monitoring Point #IP3 in order to monitor the Neosho Crowder WWTP effluent during different operational circumstances. To determine removal efficiency for the Neosho Crowder WWTP, the facility should collect a sample of influent and effluent samples at the same time, with influent samples being collected at Internal Monitoring Point #IP1 and effluent samples being collected at one of the locations specified in this permit depending on where effluent is being sent at the time of sample collection.

**Facility Performance History:**

The Neosho Shoal Creek WWTP was last inspected on April 18-19, 2012. The inspection showed the following unsatisfactory features; review of Discharge Monitoring Reports (DMR) showed the facility had not always met effluent limitations of the permit, laboratory procedures did not conform to Standards Conditions Part I, review of the 2011 Form S for biosolids disposal showed the form had not been sufficiently completed, failure to record the volume of screenings, operation and maintenance failures, and showed operational tests were not being performed at the proper frequency. The inspection also mentioned maintaining all information on samples collected or analyzed.

The Neosho Crowder WWTP was last inspected on March 26, 2008. The inspection showed the following unsatisfactory features; no all Sanitary Sewer Overflows (SSOs) have been reported, failure to maintain all information for sampling and analysis conducted, failure to have a quality assurance program for pH, it was unknown at the time of the inspection if weights were ASTM Class I certified, failure to have a certified thermometer, laboratory chemicals were outdated, one clarifier was out of service at the time of the inspection, and the flow meter is not certified annually by a factory authorized representative.

**Permit Comments:**

Special conditions were updated to include the addition of reporting of Non-detects, addition of instream monitoring requirements, addition of Stormwater Pollution Prevention Plan, and addition of requirements to submit to the department via the Electronic Discharge Monitoring Report (eDMR) Submission System. Other special conditions which have changed from the previous permit include inflow and infiltration reporting requirements, bypass reporting requirements, and pretreatment requirements.

The design flow of each facility is 3.0 MGD individually, as reflected in the permit. However, the ultraviolet disinfection unit located at the Neosho Shoal Creek WWTP is designed to treat 6.0 MGD in order to disinfect effluent from both WWTPs prior to the discharge from Outfall #001. Therefore, design flows of 6.0 MGD for Outfall #001 and 3.0 MGD for Outfall #002 were used in effluent limitation derivations.

**Outfall #001 Comments:**

Changes at this location include the addition of monitoring requirements for total nitrogen, total phosphorus, and requirements to conduct a Chronic Whole Effluent Toxicity (WET). This permit also includes the addition of a schedule of compliance to meet final effluent limitations at Outfall #001 for the following parameters; total ammonia nitrogen, phenol, total recoverable cadmium, total recoverable iron, and total recoverable selenium. Other changes in effluent limitations include pH, total recoverable chromium (III), and dissolved chromium (VI). Please see Part VII of the Fact Sheet for further information regarding the addition and removal of effluent parameters. Sampling and reporting frequency was changed from once/month to once/quarter for total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), and total recoverable selenium and from once/week to twice/month for ammonia. The reduction in sampling for all of the above listed parameters is due to the consistency of the data submitted for each parameter. This determination will be reevaluated during the next renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

**Outfall #002 Comments (previously identified as Outfall #001 in MO-0039926 – which has been combined with this permit):**

During normal conditions, Outfall #002 typically has no discharge. However, discharges may occur from Outfall #002 during high flow events when the effluent pumps cannot send all the Neosho Crowder WWTP effluent to the Neosho Shoal Creek WWTP. Changes at this location include the addition of monitoring requirements for total nitrogen, total recoverable iron, and total recoverable selenium and the removal of requirements to conduct Acute Whole Effluent Toxicity (WET). Other changes in effluent limitations include ammonia, *E. coli*, nitrates, pH, 1,2-dichloroethane, 1,1,2-trichloroethane, cyanide, phenol, sulfates, and total dissolved boron. See Part VII of the Fact Sheet for further information regarding the addition and removal of effluent parameters. Sampling and reporting frequency was changed from once/week to twice/month for ammonia and nitrates, from once/week to once/quarter for total hardness, oil & grease, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, cyanide amenable to chlorination, phenol, sulfates, total dissolved boron, total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc. These changes in sampling and reporting frequency are due to the infrequency of the discharge at these locations along with the determination made by the permit writer that the effluent concentrations for the above listed parameters consistency of the discharges. This determination will be reevaluated upon renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

This permit also includes the addition of a schedule of compliance to meet final effluent limitations at Outfall #002 for total phosphorus as a result of a TMDL as demonstrated in Tables A-5 and A-6 of the permit.

This facility adds chemicals to dechlorinate the effluent prior to discharge at Outfall #002. Dechlorination chemicals have the potential to reduce dissolved oxygen concentrations in the discharge, resulting in an anoxic discharge, unless carefully controlled. However, Outfall #002 rarely discharges and when a discharge does occur, it is due to high flow events caused by Inflow and Infiltration (I&I). Due to the receiving stream condition and the effluent condition at the time of discharges from Outfall #002, it has been determined by the permit writer that there is no reasonable potential to violate water quality standards for dissolved oxygen and therefore no monitoring requirements have been included in this permit.

**Internal Monitoring Point #IP2 Comments:**

The permit writer has created Internal Monitoring Point #IP2 in order to monitoring effluent that is sent to the golf course irrigation storage ponds, as the last storage pond has the ability to overflow. As a result, the permit writer has determined that these interconnected ponds act as a receiving stream as opposed to a permanent storage structure. In the previous permit, monitoring of the storage pond overflow was required, in turn, creating a point of compliance following the combination of the Neosho Crowder WWTP effluent with other water stored in the ponds. This permit, however, creates a point of compliance which is located prior to this mixing of effluent and receiving water in order to collect samples which are representative of the Neosho Crowder WWTP effluent. This location is identified as Internal Monitoring Point #IP2, located in the chlorine contact basin where effluent has been fully treated, including disinfection, at the Neosho Crowder WWTP. This location was established due to the fact that there is no opportunity to sample effluent once routed to the golf course irrigation ponds.

Internal Monitoring Point #IP2 includes quarterly monitoring only requirements for total phosphorus as demonstrated in Table A-7 of the permit.

**Combined Outfall #002 and Internal Monitoring Point #IP2 Comments:**

Due to the fact that this permit includes identical requirement for Outfall #002 and Internal Monitoring Point #IP2 for certain parameters, the permit writer has included both of these permitted features in Tables A-8, A-9, and A-10. Although the two permitted features are included in Tables A-8, A-9, and A-10 together, the requirements identified in these tables apply to the two permitted features separately. This means that if a discharge occurs from both Outfall #002 and Internal Monitoring Point #IP2 during a sampling period, the facility will be required to sample and report effluent results from both permitted feature locations separately. Sample results are not to be averaged between Outfall #002 and Internal Monitoring Point #IP2.

This permit includes the addition of a schedule of compliance to meet final effluent limitations at Outfall #002 and Internal Monitoring Point #IP2 for total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc.

It has been determined by the permit writer that expanded effluent testing requirements of the renewal application are not required for Outfall #002 or Internal Monitoring Point #IP2. Expanded effluent testing allows the permit writer to make determinations regarding potential effluent limitation or monitoring requirements, which will not be a result of this sampling at Outfall #002 or Internal Monitoring Point #IP2. Discharges from Outfall #002 historically are rare in frequency and occur during high flow events due to Inflow and Infiltration (I&I) into the collection system. As a result, samples taken from Outfall #002 would not be representative of the seasonal variation in the discharge since they will occur during the same stream and effluent conditions. Expanded effluent testing is required by the application for renewal at Outfall #001, which will include effluent from both wastewater plants and will allow for the permittee to collect samples representative of seasonal variation.

**EFFLUENT TABLE REQUIREMENTS BY PERMITTED FEATURE:**

| PERMITTED FEATURE                             | ASSOCIATED TABLE(S) IN PERMIT | COMMENTS                                                                                        |
|-----------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|
| Outfall #001                                  | Table A-1                     | Interim Effluent Limitations and Monitoring Requirements – Monthly Submittal.                   |
|                                               | Table A-2                     | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
|                                               | Table A-3                     | Interim Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                 |
|                                               | Table A-4                     | Final Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                   |
|                                               | Table A-13                    | Final Effluent Limitations and Monitoring Requirements – Whole Effluent Toxicity (WET) Testing. |
| Outfall #002                                  | Table A-5                     | Interim Effluent Limitations and Monitoring Requirements – Monthly Submittal.                   |
|                                               | Table A-6                     | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
| Internal Monitoring Point #IP2                | Table A-7                     | Final Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                   |
| Outfall #002 & Internal Monitoring Point #IP2 | Table A-8                     | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
|                                               | Table A-9                     | Interim Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                 |
|                                               | Table A-10                    | Final Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                   |
| Internal Monitoring Point #IP3                | Table A-11                    | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
| Internal Monitoring Point #IP1                |                               |                                                                                                 |
| Internal Monitoring Point #IP5                | Table A-12                    | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
| Internal Monitoring Point #IP4                |                               |                                                                                                 |
| Instream Monitoring Location #SM1             | Table B-1                     | Instream Monitoring Requirements – Quarterly Submittal.                                         |
| Instream Monitoring Location #SM2             | Table B-2                     | Instream Monitoring Requirements – Quarterly Submittal.                                         |

**Part II – Operator Certification Requirements**

☒ - This facility is required to have a certified operator.

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], the permittee shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Owned or operated by or for a

☒ - Municipalities

☐ - Federal agency

☐ - County

☐ - Public Sewer District

☐ - State agency

☐ - Private Sewer Company regulated by the Public Service Commission

☐ - Public Water Supply Districts

Each of the above entities are only applicable if they have a Population Equivalent greater than two hundred (200) or fifty (50) or more service connections.

This facility currently requires an operator with an A Certification Level based on the Neosho WWTP as a whole (both the Neosho Crowder WWTP and Neosho Shoal Creek WWTP) due to the definition of wastewater treatment systems in 10 CSR 20-9.020(1)(A). Please see **Appendix - Classification Worksheet**. Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator's Name: Tim E. Parvin  
Certification Number: 9806  
Certification Level: A

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

### **Part III– Operational Monitoring**

☒ - As per [10 CSR 20-9.010(4)], the facility is required to conduct operational monitoring.

### **Part IV – Receiving Stream Information**

**RECEIVING STREAM(S) TABLE: OUTFALL #001**

| WATER-BODY NAME | CLASS | WBID | DESIGNATED USES*                              | 12-DIGIT HUC  | DISTANCE TO CLASSIFIED SEGMENT (MI) |
|-----------------|-------|------|-----------------------------------------------|---------------|-------------------------------------|
| Shoal Creek     | P     | 3222 | AQL, CLF, DWS, HHP, IND, IRR, LWV, SCR, WBC-A | 11070207-0804 | Directly Discharges                 |

**RECEIVING STREAM(S) TABLE: OUTFALL #002**

| WATER-BODY NAME            | CLASS | WBID | DESIGNATED USES*                    | 12-DIGIT HUC  | DISTANCE TO CLASSIFIED SEGMENT (MI)                         |
|----------------------------|-------|------|-------------------------------------|---------------|-------------------------------------------------------------|
| Tributary to Buffalo Creek | --    | ---- | General Criteria                    | 11070208-0401 | To Losing: Directly Discharges<br>To First Classified: 0.05 |
| 8-20-13 MUDD V1.0          | C     | 3960 | AQL, HHP, IRR, LWV, SCR, WBC-B      |               |                                                             |
| Buffalo Creek              | C     | 3276 | AQL, HHP, IRR, LWV, SCR, WBC-B      |               | 3.2                                                         |
| Buffalo Creek              | P     | 3273 | AQL, CLF, HHP, IRR, LWV, SCR, WBC-A |               | 5.6                                                         |

**RECEIVING STREAM(S) TABLE: OUTFALL #003** – Stream information below refers to the location where the Neosho Crowder WWTP effluent enters the golf course irrigation storage ponds.

| WATER-BODY NAME            | CLASS | WBID | DESIGNATED USES*                    | 12-DIGIT HUC  | DISTANCE TO CLASSIFIED SEGMENT (MI)        |
|----------------------------|-------|------|-------------------------------------|---------------|--------------------------------------------|
| Tributary to Buffalo Creek | --    | ---- | General Criteria                    | 11070208-0401 | To Losing: 0.4<br>To First Classified: 1.3 |
| 8-20-13 MUDD V1.0          | C     | 3960 | AQL, HHP, IRR, LWV, SCR, WBC-B      |               |                                            |
| Buffalo Creek              | C     | 3276 | AQL, HHP, IRR, LWV, SCR, WBC-B      |               | 3.0                                        |
| Buffalo Creek              | P     | 3273 | AQL, CLF, HHP, IRR, LWV, SCR, WBC-A |               | 5.4                                        |

\* As per 10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1<sup>st</sup> classified receiving stream's beneficial water uses to be maintained are in the receiving stream table in accordance with [10 CSR 20-7.031(1)(C)].

Uses which may be found in the receiving streams table, above:  
10 CSR 20-7.031(1)(C)1.:



**AQL** = Protection of aquatic life (Current narrative use(s) are defined to ensure the protection and propagation of fish shellfish and wildlife, which is further subcategorized as: **WWH** = Warm Water Habitat; **CDF** = Cold-water fishery (Current narrative use is cold-water habitat.); **CLF** = Cool-water fishery (Current narrative use is cool-water habitat); **EAH** = Ephemeral Aquatic Habitat; **MAH** = Modified Aquatic Habitat; **LAH** = Limited Aquatic Habitat. This permit uses AQL effluent limitations in 10 CSR 20-7.031 Table A for all habitat designations unless otherwise specified.)

10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

**WBC** = Whole Body Contact recreation where the entire body is capable of being submerged;

**WBC-A** = Whole body contact recreation that supports swimming uses and has public access;

**WBC-B** = Whole body contact recreation that supports swimming;

**SCR** = Secondary Contact Recreation (like fishing, wading, and boating).

10 CSR 20-7.031(1)(C)3. to 7.:

**HHP** (formerly HHF) = Human Health Protection as it relates to the consumption of fish;

**IRR** = Irrigation for use on crops utilized for human or livestock consumption;

**LWW** = Livestock and wildlife watering (Current narrative use is defined as LWP = Livestock and Wildlife Protection);

**DWS** = Drinking Water Supply;

**IND** = Industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Table A currently does not have corresponding habitat use criteria for these defined uses)

**WSA** = Storm- and flood-water storage and attenuation; **WHP** = Habitat for resident and migratory wildlife species;

**WRC** = Recreational, cultural, educational, scientific, and natural aesthetic values and uses; **WHC** = Hydrologic cycle maintenance.

10 CSR 20-7.031(6): **GRW** = Groundwater

**RECEIVING STREAM(S) LOW-FLOW VALUES:**

**OUTFALL #001**

| RECEIVING STREAM | LOW-FLOW VALUES (CFS) |      |       |
|------------------|-----------------------|------|-------|
|                  | 1Q10                  | 7Q10 | 30Q10 |
| Shoal Creek (P)  | 0.1                   | 0.1  | 1.0   |

**OUTFALL #002 & OUTFALL #003**

| RECEIVING STREAM           | LOW-FLOW VALUES (CFS) |      |       |
|----------------------------|-----------------------|------|-------|
|                            | 1Q10                  | 7Q10 | 30Q10 |
| Tributary to Buffalo Creek | 0.0                   | 0.0  | 0.0   |

**MIXING CONSIDERATIONS TABLE:**

**OUTFALL #001**

| MIXING ZONE (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(II)(a)] |       |       | ZONE OF INITIAL DILUTION (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(II)(b)] |        |       |
|---------------------------------------------------------|-------|-------|----------------------------------------------------------------------|--------|-------|
| 1Q10                                                    | 7Q10  | 30Q10 | 1Q10                                                                 | 7Q10   | 30Q10 |
| 0.025                                                   | 0.025 | 0.25  | 0.0025                                                               | 0.0025 | N/A   |

**OUTFALL #002 & OUTFALL #003**

| MIXING ZONE (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(I)(a)] |      |       | ZONE OF INITIAL DILUTION (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(I)(b)] |      |       |
|--------------------------------------------------------|------|-------|---------------------------------------------------------------------|------|-------|
| 1Q10                                                   | 7Q10 | 30Q10 | 1Q10                                                                | 7Q10 | 30Q10 |
| 0.0                                                    | 0.0  | 0.0   | 0.0                                                                 | 0.0  | N/A   |

**RECEIVING STREAM MONITORING REQUIREMENTS:**

**OUTFALL #001**

Facilities with a design flow greater than 100,000 gallons per day are required to sample their effluent quarterly for total nitrogen and total phosphorus per 10 CSR 20-7.015(9)(D)7. Instream (Permitted Feature #SM1 – Upstream) monitoring for these parameters is necessary to determine background concentrations in order to complete calculations related to future effluent limit derivation where necessary or appropriate. Instream (Permitted Feature #SM2 – Downstream) total hardness data collected will be used to establish a site-specific hardness value which may be used in effluent limitations derivation calculations for hardness dependent metals.

**OUTFALL #002 & OUTFALL #003**

No receiving water monitoring requirements recommended at this time.

### **RECEIVING WATER BODY'S WATER QUALITY:**

#### **OUTFALL #001**

Outfall #001 discharges to a 303(d) listed stream. Shoal Creek (P) (3222) is listed on the 2016, originally 2014, Missouri 303(d) List for Zinc (S). The 2016 Missouri 303(d) List identifies the source of the impairment as Mill Tailings. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Shoal Creek (P) (3222). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

#### **OUTFALL #002**

Outfall #002 discharges approximately 5.6 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments/Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

The Neosho Crowder WWTP discharges to a stream with an EPA approved TMDL. The majority of the time, the Neosho Crowder WWTP does not discharge to the Elk River basin and was therefore not included in the TMDL calculation. During normal flows, the effluent is piped from the Neosho Crowder WWTP to the Neosho Shoal Creek WWTP before being discharged into the Shoal Creek basin. Outfall #002, however, continues to exist in the Elk River basin and may discharge under high flow conditions. The TMDL states that if the City of Neosho chooses to maintain this potential discharge to the Elk River basin, a discharge limitation of 1.5 mg/L as a daily maximum for total phosphorus will be included in the permit. The TMDL also states that the alternative would be for the City of Neosho to eliminate Outfall #002. This requirement is reflected in this permit as a load-based daily maximum final effluent limitation in lbs/day.

#### **OUTFALL #003**

Effluent monitored at Internal Monitoring Point #IP2 discharges from Outfall #003, which is approximately 5.4 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments / Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

#### **Comments:**

Outfall #003 is the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds. These ponds and the potential discharge from these ponds are located within the same watershed as Outfall #002. However, Outfall #003 is not listed in the TMDL for the Elk River basin. Therefore, it has been determined by the permit writer that the requirements and assumption of the Elk River basin TMDL do not apply to Outfall #003 or the monitoring location Internal Monitoring Point #002.

## **Part V – Rationale and Derivation of Effluent Limitations & Permit Conditions**

### **ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:**

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

☒ - The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

### **ANTI-BACKSLIDING:**

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(o); 40 CFR Part 122.44(l)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

☒ - Limitations in this operating permit for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.

### **Outfall #001:**

☒ - Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance.

- **pH.** The previous permit included final effluent limitations of 6.5-9.0 SU. However, pH limitations [10 CSR 20-7.015] are protective of the water quality standard [10 CSR 20-7.031(5)(E)], due to the buffering capacity of the mixing zone. Therefore, it has been determined by the permit writer that final effluent limitations of 6.0-9.0 SU be included in the permit.

- **Chromium (III), Total Recoverable.** The previous permit included final effluent limitations of 976.2 µg/L as a daily maximum and 389.3 µg/L as a monthly average. Over the previous five years, the permittee has reported non-detects which are less than the water quality standards. It has been determined by the permit writer that at this time no reasonable potential exists for this facility to exceed water quality criteria therefore, monitoring only requirements are included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Chromium (VI), Dissolved.** The previous permit included final effluent limitations of 20.3 µg/L as a daily maximum and 8.1 µg/L as a monthly average. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Whole Effluent Toxicity (WET) test.** WET testing requirements were changed from pass/fail to monitoring only for toxic units. This change reflects modifications to Missouri's Effluent Regulation found at 10 CSR 20-7.015. 40 CFR 122.44(d)(1)(ii) requiring the department to establish effluent limitations to control all parameters which have the reasonable potential to cause or contribute to an excursion above any state water quality standard, including state narrative criteria. The previous permit imposed a pass/fail limitation without collecting sufficient numerical data to conduct an analytical reasonable potential analysis. The permit writer has made a reasonable potential determination which concluded the facility does not have reasonable potential at this time but monitoring is required. Implementation of the toxic unit monitoring requirement will allow the department to effect numeric criteria in accordance with water quality standards established under §303 of the CWA.

**Outfall #002:**

- ☒ - Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance.
- **Escherichia coli (E. coli).** The previous permit included final effluent limitations of 126 #/100 mL as a daily maximum and monthly average. Discharges to losing streams shall not exceed 126 #/100 mL as a daily maximum at any time, as per 10 CSR 20-7.031(5)(C) and monitoring only for a monthly average, as no more than 10% of samples over the course of the calendar year shall exceed 126 #/100 mL daily maximum as per 10 CSR 20-7.015(9)(B)1.G. Therefore, this permit includes final effluent limitations of 126 #/100 mL as a daily maximum and monitoring only requirements as a monthly average.
  - **Nitrates as N.** The previous permit included final effluent limitations of 20 mg/L as a daily maximum and 10 mg/L as a monthly average in order to protect both groundwater and drinking water. After review of discharge monitoring reports over the previous five years, the permit writer made a reasonable potential determination that there is no reasonable potential to exceed the water quality standard for nitrates at this time. However, monitoring only requirements have been included in the permit in order to verify this determination. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality.
  - **Whole Effluent Toxicity (WET) test.** The previous permit included requirements to conduct an Acute WET test once every year at the Neosho Crowder WWTP (Outfall #002). However, when a discharge occurs at Outfall #002, it is due to high flow events caused by Inflow and Infiltration (I&I). These discharges have been determined to not be representative of the facility's performance by the permit writer due to dilution of the effluent. Additionally, WET testing should occur during critical low flow scenarios, which will not be the conditions of the receiving stream at the time of a discharge from Outfall #002. During normal flow conditions, the effluent from Outfall #002 is sent to the Neosho Shoal Creek WWTP (Outfall #001) where the effluents combine prior to sample collection for WET test purposes. This means that when the permittee collects a sample at Outfall #001 for WET test requirements, effluent from the Neosho Crowder WWTP, which is representative of normal flow conditions, will be included in the sample for compliance with WET test requirements of Outfall #001. Therefore, it has been determined by the permit writer that WET testing requirements be removed for Outfall #002 in this permit.
- ☒ - The Department determines that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).
- **1,2-dichloroethane, 1,1,2-trichloroethane, Cyanide (Amenable to Chlorination), Phenol, Total Dissolved Boron, & Total Recoverable Lead.** It has been determined by the permit writer that derivation of final effluent limitations for the above listed parameters were done so incorrectly. Therefore, effluent limitations have been reevaluated for the purposes of this permit renewal. As a result, final effluent limitations included in this permit are less stringent than previously established. These effluent limitations are still protective of water quality standards. Data collected will be reviewed upon renewal to verify these determinations.

**ANTIDEGRADATION:**

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(3)], for domestic wastewater discharge with new, altered, or expanding discharges, the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the department prior to establishing, altering, or expanding discharges. See <http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm>

☒ - No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

For stormwater discharges with new, altered, or expanding discharges, the stormwater BMP chosen for the facility, through the antidegradation analysis performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

**AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:**

As per [10 CSR 20-6.010(3)(B)], ...An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

**BIOSOLIDS & SEWAGE SLUDGE:**

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: <http://extension.missouri.edu/main/DisplayCategory.aspx?C=74>, items WQ422 through WQ449.

☒ - Permittee has and a Department approved biosolids management plan, and is authorized to land applies biosolids in accordance with Standard Conditions III.

**COMPLIANCE AND ENFORCEMENT:**

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

☒ - The facility is not currently under Water Protection Program enforcement action.

**ELECTRONIC DISCHARGE MONITORING REPORT (EDMR) SUBMISSION SYSTEM:**

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by converting to an electronic data reporting system. This final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a permittee must first submit an eDMR Waiver Request Form: <http://dnr.mo.gov/forms/780-2692-f.pdf>. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is non-transferable.

The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so and electronically submit the data to the EPA on behalf of the facility.

☒ - The permittee/facility is not currently using the eDMR data reporting system. The permittee shall submit an eDMR Permit Holder and Certifier Registration form **within 90 days of the effective date** of this permit.

**PRETREATMENT PROGRAM:**

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Several special conditions pertaining to the permittee's pretreatment program may be included in the permit, and are as follows:

- Implementation and enforcement of the program,
- Annual pretreatment report submittal,
- Submittal of list of industrial users,
- Technical evaluation of need to establish local limitations, and
- Submittal of the results of the evaluation

☒ - This permittee has an approved pretreatment program in accordance with the requirements of [40 CFR Part 403] and [10 CSR 20-6.100] and is expected to implement and enforce its approved program.

**REASONABLE POTENTIAL ANALYSIS (RPA):**

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(1)(iii)] if the permit writer determines that any given pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

☒ - A RPA was conducted on appropriate parameters. Please see **APPENDIX – RPA RESULTS**.

**REMOVAL EFFICIENCY:**

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

**Outfall #001:** Secondary Treatment is 85% removal [40 CFR Part 133.102(a)(3) & (b)(3)].

**Outfall #002:** Equivalent to Secondary Treatment is 65% removal [40 CFR Part 133.105(a)(3) & (b)(3)].

**SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):**

Sanitary Sewer Overflows (SSOs) are defined as untreated sewage releases and are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSOs result from a variety of causes including blockages, line breaks, and sewer defects that can either allow wastewater to backup within the collection system during dry weather conditions or allow excess stormwater and groundwater to enter and overload the collection system during wet weather conditions. SSOs can also result from lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs include overflows out of manholes, cleanouts, broken pipes, and other into waters of the state and onto city streets, sidewalks, and other terrestrial locations.

Inflow and Infiltration (I&I) is defined as unwanted intrusion of stormwater or groundwater into a collection system. This can occur from points of direct connection such as sump pumps, roof drain downspouts, foundation drains, and storm drain cross-connections or through cracks, holes, joint failures, faulty line connections, damaged manholes, and other openings in the collection system itself. I&I results from a variety of causes including line breaks, improperly sealed connections, cracks caused by soil erosion/settling, penetration of vegetative roots, and other sewer defects. In addition, excess stormwater and groundwater entering the collection system from line breaks and sewer defects have the potential to negatively impact the treatment facility.

Missouri RSMo §644.026.1.(13) mandates that the Department issue permits for discharges of water contaminants into the waters of this state, and also for the operation of sewer systems. Such permit conditions shall ensure compliance with all requirements as established by sections 644.006 to 644.141. Standard Conditions Part I, referenced in the permit, contains provisions requiring proper operation and maintenance of all facilities and systems of treatment and control. Missouri RSMo §644.026.1.(15) instructs the Department to require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities. To ensure that public health and the environment are protected, any noncompliance which may endanger public health or the environment must be reported to the Department within 24 hours of the time the permittee becomes

aware of the noncompliance. Standard Conditions Part I, referenced in the permit, contains the reporting requirements for the permittee when bypasses and upsets occur. The permit also contains requirements for permittees to develop and implement a program for maintenance and repair of the collection system. The permit requires that the permittee submit an annual report to the Department for the previous calendar year that contains a summary of efforts taken by the permittee to locate and eliminate sources of excess I & I, a summary of general maintenance and repairs to the collection system, and a summary of any planned maintenance and repairs to the collection system for the upcoming calendar year.

☒ - At this time, the Department recommends the US EPA's Guide for Evaluating Capacity, Management, Operation and Maintenance (CMOM) Programs At Sanitary Sewer Collection Systems (Document # EPA 305-B-05-002) or the Departments' CMOM Model located at <http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc>. For additional information regarding the Departments' CMOM Model, see the CMOM Plan Model Guidance document at <http://dnr.mo.gov/pubs/pub2574.htm>. The CMOM identifies some of the criteria used to evaluate a collection system's management, operation, and maintenance and was intended for use by the EPA, state, regulated community, and/or third party entities. The CMOM is applicable to small, medium, and large systems; both public and privately owned; and both regional and satellite collection systems. The CMOM does not substitute for the Clean Water Act, the Missouri Clean Water Law, and both federal and state regulations, as it is not a regulation.

#### **SCHEDULE OF COMPLIANCE (SOC):**

Per 644.051.4 RSMo, a permit may be issued with a Schedule of Compliance (SOC) to provide time for a facility to come into compliance with new state or federal effluent regulations, water quality standards, or other requirements. Such a schedule is not allowed if the facility is already in compliance with the new requirement, or if prohibited by other statute or regulation. A SOC includes an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. *See also* Section 502(17) of the Clean Water Act, and 40 CFR §122.2. For new effluent limitations, the permit includes interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(11), compliance must occur as soon as possible. If the permit provides a schedule for meeting new water quality based effluent limits, a SOC must include an enforceable, final effluent limitation in the permit even if the SOC extends beyond the life of the permit.

A SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed. 40 CFR § 125.3.
- For a newly constructed facility in most cases. Newly constructed facilities must meet applicable effluent limitations when discharge begins, because the facility has installed the appropriate control technology as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit that was not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be granted for conducting these activities.

In order to provide guidance to Permit Writers in developing SOC's, and attain a greater level of consistency, on April 9, 2015 the Department issued an updated policy on development of SOC's. This policy provides guidance to Permit Writers on the standard time frames for schedules for common activities, and guidance on factors that may modify the length of the schedule such as a Cost Analysis for Compliance.

☒ - The time given for effluent limitations of this permit listed under Interim Effluent Limitation and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(11)].

#### **Outfall #001:**

The facility has been given a schedule of compliance to meet final effluent limits for ammonia, phenol, total recoverable cadmium, total recoverable iron, and total recoverable selenium. The existing oxidation ditch facility employs technology capable of meeting the proposed final effluent limitations for ammonia, but discharge monitoring reports indicate the facility has not always been in compliance with the proposed limitations. Therefore this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001. As a result of a Reasonable Potential Analysis (RPA), it has been determined that the facility has a reasonable potential to exceed water quality standards for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

**Outfall #002:**

The facility has been given a schedule of compliance to meet final effluent limits for total phosphorus. The five (5) year schedule of compliance allowed for this facility should provide adequate time to evaluate operations, obtain an engineering report, obtain a construction permit and implement upgrades required to meet effluent limits. Due to the economic burden on this community of the cost of compliance and associated difficulty in raising the necessary funding, the schedule has been established at five (5) years in accordance with the Department's "Schedule of Compliance, Policy for Staff Drafting Operating Permits". Please see the Cost Analysis for Compliance attached as an appendix to the permit for further detail on how the socio-economic status of the community has impacted this SOC.

**Outfall #002 and Internal Monitoring Point #IP2:**

The facility has been given a schedule of compliance to meet final effluent limits for total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc. As a result of technical mistakes noticed by the permit writer, this permit includes new and more stringent effluent limitations than those of the previous permit for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations and the limited amount of effluent data related to the above listed parameters, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

**SEWER EXTENSION AUTHORITY SUPERVISED PROGRAM:**

In accordance with [10 CSR 20-6.010(6)(A)], the department may grant approval of a permittee's Sewer Extension Authority Supervised Program. These approved permittees regulate and approve construction of sanitary sewers and pump stations, which are tributary to this wastewater treatment facility. The permittee shall act as the continuing authority for the operation, maintenance, and modernization of the constructed collection system. See <http://dnr.mo.gov/env/wpp/permits/sewer-extension.htm>.

☒ - The permittee does not have a department approved Sewer Extension Authority Supervised Program.

**STORMWATER POLLUTION PREVENTION PLAN (SWPPP):**

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of stormwater discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of stormwater discharges. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff. Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the permittee should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and re-evaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

For new, altered, or expanded stormwater discharges, the SWPPP shall identify reasonable and effective BMPs while accounting for environmental impacts of varying control methods. The antidegradation analysis must document why no discharge or no exposure options are not feasible. The selection and documentation of appropriate control measures shall serve as an alternative analysis of



technology and fulfill the requirements of antidegradation [10 CSR 20-7.031(3)]. For further guidance, consult the antidegradation implementation procedure (<http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf>).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs that are reasonable and cost effective. The AA evaluation should include practices that are designed to be: 1) non-degrading; 2) less degrading; or 3) degrading water quality. The glossary of AIP defines these three terms. The chosen BMP will be the most reasonable and effective management strategy while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The AA evaluation must demonstrate why “no discharge” or “no exposure” is not a feasible alternative at the facility. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.031(3) Water Quality Standards and *Antidegradation Implementation Procedure* (AIP), Section II.B.

If parameter-specific numeric exceedances continue to occur and the permittee feels there are no practicable or cost-effective BMPs which will sufficiently reduce a pollutant concentration in the discharge to the benchmark values established in the permit, the permittee can submit a request to re-evaluate the benchmark values. This request needs to include 1) a detailed explanation of why the facility is unable to comply with the permit conditions and unable to establish BMPs to achieve the benchmark values; 2) financial data of the company and documentation of cost associated with BMPs for review and 3) the SWPPP, which should contain adequate documentation of BMPs employed, failed BMPs, corrective actions, and all other required information. This will allow the department to conduct a cost analysis on control measures and actions taken by the facility to determine cost-effectiveness of BMPs. The request shall be submitted in the form of an operating permit modification; the application is found at: <http://dnr.mo.gov/forms/index.html>.

☒ - 10 CSR 20-6.200 and 40 CFR 122.26 includes treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that is located within the confines of the facility, with a design flow of 1.0 mgd or more, or are required to have an approved pretreatment program under 40 CFR part 403, as an industrial activity in which permit coverage is required.

In lieu of requiring sampling in the site-specific permit, the facility is required to develop and implement a Stormwater Pollution Prevention Plan. A facility can apply for conditional exclusion for “no exposure” of industrial activities and materials to stormwater by submitting to the Department a completed NPDES Form 3510-11 – No Exposure Certification for Exclusion from NPDES Stormwater Permitting. That document can be found at [https://www3.epa.gov/npdes/pubs/msgp2008\\_appendixk.pdf](https://www3.epa.gov/npdes/pubs/msgp2008_appendixk.pdf) and additional information may be found at <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#exclusion>. Upon approval of the “No Exposure”, the permit can be modified to remove the SWPPP requirements. If the facility chooses to retain the conditional exclusion for “no exposure”, the facility is required to renew the “No Exposure” exemption during the permit renewal period by submitting NPDES Form 3510-11 with Form B2.

#### **VARIANCE:**

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

☒ - This operating permit is not drafted under premises of a petition for variance.

#### **WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:**

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

☒ - Wasteload allocations were calculated where applicable using water quality criteria or water quality model results and the dilution equation below:

$$C_e = \frac{(Q_e + Q_s)C - (Q_s \times C_s)}{(Q_e)} \quad (\text{EPA/505/2-90-001, Section 4.5.5})$$

Where C = downstream concentration      C<sub>e</sub> = effluent concentration  
Cs = upstream concentration              Q<sub>e</sub> = effluent flow  
Q<sub>s</sub> = upstream flow

Chronic wasteload allocations were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ). Acute wasteload allocations were



determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

**Number of Samples "n":**

Additionally, in accordance with the TSD for water quality-based permitting, effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying distribution or treatment performance, which should be, at a minimum, be targeted to comply with the values dictated by the WLA. Therefore, it is recommended that the actual planned frequency of monitoring normally be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4" at a minimum. For Total Ammonia as Nitrogen, "n = 30" is used.

**WLA MODELING:**

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

☒ - A WLA study was either not submitted or determined not applicable by Department staff.

**WATER QUALITY STANDARDS:**

Per [10 CSR 20-7.031(4)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

**WHOLE EFFLUENT TOXICITY (WET) TEST:**

**Outfall #001:** The permittee is required to conduct WET test for this facility.

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A)7. and the Water Quality Standards 10 CSR 20-7.031(4)(D),(F),(G),(I)2.A & B are being met. Under [10 CSR 20-6.010(8)(A)4], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§644.051.3 requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc...); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by facilities meeting the following criteria:

- ☒ Facility is a designated Major.
- ☐ Facility continuously or routinely exceeds its design flow.
- ☐ Facility that exceeds its design population equivalent (PE) for BOD<sub>5</sub> whether or not its design flow is being exceeded.
- ☐ Facility (whether primarily domestic or industrial) that alters its production process throughout the year.
- ☒ Facility handles large quantities of toxic substances, or substances that are toxic in large amounts.
- ☒ Facility has Water Quality-based Effluent Limitations for toxic substances (other than NH<sub>3</sub>).
- ☒ Facility is a municipality with a Design Flow ≥ 22,500 gpd.

**Outfall #002:** At this time, the permittee is not required to conduct WET test for this facility.

**40 CFR 122.41(M) - BYPASSES:**

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-7.015(9)(G) states a bypass means the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending, to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR

122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

☒ - This facility does not anticipate bypassing.

### **303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):**

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

**Outfall #001:** Outfall #001 discharges to a 303(d) listed stream. Shoal Creek (P) (3222) is listed on the 2016, originally 2014, Missouri 303(d) List for Zinc (S). The 2016 Missouri 303(d) List identifies the source of the impairment as Mill Tailings. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Shoal Creek (P) (3222). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

**Outfall #002:** Outfall #002 discharges approximately 5.6 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments/Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

The Neosho Crowder WWTP discharges to a stream with an EPA approved TMDL. The majority of the time, the Neosho Crowder WWTP does not discharge to the Elk River basin and was therefore not included in the TMDL calculation. During normal flows, the effluent is piped from the Neosho Crowder WWTP to the Neosho Shoal Creek WWTP before being discharged into the Shoal Creek basin. Outfall #002, however, continues to exist in the Elk River basin and may discharge under high flow conditions. The TMDL states that if the City of Neosho chooses to maintain this potential discharge to the Elk River basin, a discharge limitation of 1.5 mg/L as a daily maximum for total phosphorus will be included in the permit. The TMDL also states that the alternative would be for the City of Neosho to eliminate Outfall #002. This requirement is reflected in this permit as a load-based daily maximum final effluent limitation in lbs/day.

**Outfall #003:** Effluent monitored at Internal Monitoring Point #IP2 discharges from Outfall #003, which is approximately 5.4 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments / Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

Outfall #003 is the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds. These ponds and the potential discharge from these ponds are located within the same watershed as Outfall #002. However, Outfall #003 is not listed in the TMDL for the Elk River basin. Therefore, it has been determined by the permit writer that the requirements and assumption of the Elk River basin TMDL do not apply to Outfall #003 or the monitoring location Internal Monitoring Point #002.

## **Part VI –2013 Water Quality Criteria for Ammonia**

Upcoming changes to the Water Quality Standard for ammonia may require significant upgrades to wastewater treatment facilities.

On August 22, 2013, the U.S. Environmental Protection Agency (EPA) finalized new water quality criteria for ammonia, based on toxicity studies of mussels and gill breathing snails. Missouri's current ammonia criteria are based on toxicity testing of several species, but did not include data from mussels or gill breathing snails. Missouri is home to 69 of North America's mussel species, which are spread across the state. According to the Missouri Department of Conservation nearly two-thirds of the mussel species in Missouri are considered to be "of conservation concern". Nine species are listed as federally endangered, with an additional species currently proposed as endangered and another species proposed as threatened.

The adult forms of mussels that are seen in rivers, lakes, and streams are sensitive to pollutants because they are sedentary filter feeders. They vacuum up many pollutants with the food they bring in and cannot escape to new habitats, so they can accumulate

toxins in their bodies and die. But very young mussels, called glochidia, are exceptionally sensitive to ammonia in water. As a result of a citizen suit, the EPA was compelled to conduct toxicity testing and develop ammonia water quality criteria that would be protective if young mussels may be present in a waterbody. These new criteria will apply to any discharge with ammonia levels that may pose a reasonable potential to violate the standards. Nearly all discharging domestic wastewater treatment facilities (cities, subdivisions, mobile home parks, etc.), as well as certain industrial and stormwater dischargers with ammonia in their effluent, will be affected by this change in the regulations.

When new water quality criteria are established by the EPA, states must adopt them into their regulations in order to keep their authorization to issue permits under the National Pollutant Discharge Elimination System (NPDES). States are required to review their water quality standards every three years, and if new criteria have been developed they must be adopted. States may be more protective than the Federal requirements, but not less protective. Missouri does not have the resources to conduct the studies necessary for developing new water quality standards, and therefore our standards mirror those developed by the EPA; however, we will utilize any available flexibility based on actual species of mussels that are native to Missouri and their sensitivity to ammonia.

Many treatment facilities in Missouri are currently scheduled to be upgraded to comply with the current water quality standards. But these new ammonia standards may require a different treatment technology than the one being considered by the permittee. It is important that permittees discuss any new and upcoming requirements with their consulting engineers to ensure that their treatment systems are capable of complying with the new requirements. The Department encourages permittees to construct treatment technologies that can attain effluent quality that supports the EPA ammonia criteria.

Ammonia toxicity varies by temperature and by pH of the water. Assuming a stable pH value, but taking into account winter and summer temperatures, Missouri includes two seasons of ammonia effluent limitations.

#### **Outfall #001:**

Current effluent limitations in this permit for summer are – 6.1 mg/L daily maximum, 1.2 mg/L monthly average.

Current effluent limitations in this permit for winter are – 11.9 mg/L daily maximum, 2.2 mg/L monthly average.

Under the new EPA criteria, where mussels of the family Unionidae are present or expected to be present, the estimated effluent limitations for a facility in a location such as this that discharges to a receiving stream with the mixing consideration listed in Part IV of the Fact Sheet will be:

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen CCC (mg/L) | Total Ammonia Nitrogen CMC (mg/L) |
|--------|-----------|---------|-----------------------------------|-----------------------------------|
| Summer | 26        | 7.8     | 0.7                               | 3.4                               |
| Winter | 6         | 7.8     | 2.3                               | 13                                |

#### **Summer: April 1 – September 30**

Chronic WLA:  $C_e = ((9.3 + 0.25)0.7 - (0.25 * 0.01))/9.3$   
 $C_e = 0.72 \text{ mg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)3.4 - (0.0025 * 0.01))/9.3$   
 $C_e = 3.40 \text{ mg/L}$

$LTA_c = 0.72 \text{ mg/L} (0.425) = 0.31 \text{ mg/L}$

$[CV = 2.30, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$

$LTA_a = 3.40 \text{ mg/L} (0.107) = 0.36 \text{ mg/L}$

$[CV = 2.30, 99^{\text{th}} \text{ Percentile}]$

Use most protective number of  $LTA_c$  or  $LTA_a$ .

$MDL = 0.31 \text{ mg/L} (9.34) = 2.9 \text{ mg/L}$

$[CV = 2.30, 99^{\text{th}} \text{ Percentile}]$

$AML = 0.31 \text{ mg/L} (1.79) = 0.5 \text{ mg/L}$

$[CV = 2.30, 95^{\text{th}} \text{ Percentile, } n = 30]$

#### **Winter: October 1 – March 31**

Chronic WLA:  $C_e = ((9.3 + 0.25)2.3 - (0.25 * 0.01))/9.3$   
 $C_e = 2.36 \text{ mg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)13 - (0.0025 * 0.01))/9.3$   
 $C_e = 13.00 \text{ mg/L}$

$LTA_c = 2.36 \text{ mg/L} (0.345) = 0.82 \text{ mg/L}$

$[CV = 3.01, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$

$LTA_a = 13.00 \text{ mg/L} (0.093) = 1.20 \text{ mg/L}$

$[CV = 3.01, 99^{\text{th}} \text{ Percentile}]$

Use most protective number of  $LTA_c$  or  $LTA_a$ .

$$\text{MDL} = 0.82 \text{ mg/L (10.80)} = 8.8 \text{ mg/L}$$

$$\text{AML} = 0.82 \text{ mg/L (2.04)} = 1.7 \text{ mg/L}$$

$$[\text{CV} = 3.01, 99^{\text{th}} \text{ Percentile}]$$

$$[\text{CV} = 3.01, 95^{\text{th}} \text{ Percentile, } n = 30]$$

Summer – 2.9 mg/L daily maximum, 0.5 mg/L monthly average.

Winter – 8.8 mg/L daily maximum, 1.7 mg/L monthly average.

#### **Outfall #002 & Internal Monitoring Point #IP2:**

Current effluent limitations in this permit for summer are – 3.6 mg/L daily maximum, 1.4 mg/L monthly average.

Current effluent limitations in this permit for winter are – 7.5 mg/L daily maximum, 2.9 mg/L monthly average.

Under the new EPA criteria, where mussels of the family Unionidae are present or expected to be present, the estimated effluent limitations for a facility in a location such as this that discharges to a receiving stream with no mixing will be:

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen CCC (mg/L) | Total Ammonia Nitrogen CMC (mg/L) |
|--------|-----------|---------|-----------------------------------|-----------------------------------|
| Summer | 26        | 7.8     | 0.7                               | 3.4                               |
| Winter | 6         | 7.8     | 2.3                               | 13                                |

#### **Summer: April 1 – September 30**

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)0.7 - (0.0 * 0.01))/4.65$$

$$C_e = 0.70 \text{ mg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)3.4 - (0.0 * 0.01))/4.65$$

$$C_e = 3.40 \text{ mg/L}$$

$$\text{LTA}_c = 0.70 \text{ mg/L (0.780)} = 0.55 \text{ mg/L}$$

$$\text{LTA}_a = 3.40 \text{ mg/L (0.321)} = 1.09 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 0.55 \text{ mg/L (3.11)} = 1.7 \text{ mg/L}$$

$$\text{AML} = 0.55 \text{ mg/L (1.19)} = 0.6 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 30]$$

#### **Winter: October 1 – March 31**

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)2.3 - (0.0 * 0.01))/4.65$$

$$C_e = 2.30 \text{ mg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)13 - (0.0 * 0.01))/4.65$$

$$C_e = 13.00 \text{ mg/L}$$

$$\text{LTA}_c = 2.30 \text{ mg/L (0.780)} = 1.79 \text{ mg/L}$$

$$\text{LTA}_a = 13.00 \text{ mg/L (0.321)} = 4.17 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 1.79 \text{ mg/L (3.11)} = 5.6 \text{ mg/L}$$

$$\text{AML} = 1.79 \text{ mg/L (1.19)} = 2.1 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 30]$$

Summer – 1.7 mg/L daily maximum, 0.6 mg/L monthly average.

Winter – 5.6 mg/L daily maximum, 2.1 mg/L monthly average.

These estimated limits above are based in part on the actual performance of the plant at the time of the drafting of this permit and should not be construed as future effluent limitations. Future effluent limits, based on the EPA's 2013 water quality criteria for ammonia, will depend in part on the actual performance of the facility at the time the permit is renewed.

Operating permits for facilities in Missouri must be written based on current statutes and regulations. Therefore permits will be written with the existing effluent limitations until the new standards are adopted. To aid permittees in decision making, an advisory will be added to permit Fact Sheets notifying permittees of the expected effluent limitations for ammonia. When setting schedules of compliance for ammonia effluent limitations, consideration will be given to facilities that have recently constructed upgraded facilities to meet the current ammonia limitations.

For more information on this topic feel free to contact the Missouri Department of Natural Resources, Water Protection Program, Water Pollution Control Branch, Operating Permits Section at (573) 751-1300.

## **Part VII – Effluent Limits Determination**

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

### **OUTFALL #001 – MAIN FACILITY OUTFALL AT NEOSHO SHOAL CREEK WWTP**

#### **APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section. For this permitted feature, please see; All Other Waters [10 CSR 20-7.015(8)].

#### **EFFLUENT LIMITATIONS TABLE:**

| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum | Weekly Average | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|-----------------------------------|---------|------------------|---------------|----------------|-----------------|-----------------------|--------------------|---------------------|------------------|
| Flow                              | MGD     | 1                | *             |                | _*              | _*/*                  | _1/day             | _monthly            | _T               |
| Ammonia as N (Apr 1 – Sep 30)     | mg/L    | 2, 3             | 6.1           |                | _1.2            | _*/*                  | _2/month           | monthly             | _G               |
| Ammonia as N (Oct 1 – Mar 31)     | mg/L    | 2, 3             | 11.9          |                | _2.2            | _*/*                  | _2/month           | monthly             | _G               |
| <i>Escherichia coli</i> **        | #/100mL | 1, 3             |               | 630            | 126             | _630/126              | _1/week            | monthly             | _G               |
| PARAMETER                         | Unit    | Basis for Limits | Minimum       |                | Maximum         | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| pH                                | SU      | 1                | _6.0          |                | _9.0            | 6.5-9.0               | _1/week            | monthly             | G                |
| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum |                | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
| Oil & Grease                      | mg/L    | 1, 3             | 15            |                | _10             | 15/10                 | _1/quarter         | _quarterly          | _G               |
| Total Nitrogen                    | mg/L    | 1                | *             |                | _*              | _****                 | _1/quarter         | _quarterly          | _G               |
| Total Phosphorus                  | mg/L    | 1                | *             |                | _*              | _****                 | _1/quarter         | _quarterly          | _G               |
| Phenol                            | µg/L    | 2, 3             | 4,200.5       |                | _1,316.3        | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Cadmium, Total Recoverable        | µg/L    | 2, 3             | 0.6           |                | _0.3            | _2.9/1.0              | _1/quarter         | _quarterly          | _C               |
| Chromium (III), Total Recoverable | µg/L    | 2, 3             | *             |                | _*              | _976.2 / 389.3        | _1/quarter         | _quarterly          | _C               |
| Chromium (VI), Dissolved          | µg/L    | 2, 3             | *             |                | _*              | _20.3/8.1             | _1/quarter         | _quarterly          | _G               |
| Copper, Total Recoverable         | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Iron, Total Recoverable           | µg/L    | 2, 3             | 1,849.6       |                | _702.5          | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Lead, Total Recoverable           | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Mercury, Total Recoverable        | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Nickel, Total Recoverable         | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Selenium, Total Recoverable       | µg/L    | 2, 3             | 9.2           |                | _3.2            | _36/17.1              | _1/quarter         | _quarterly          | _C               |
| Zinc, Total Recoverable           | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Acute Whole Effluent Toxicity     | TUa     | 1, 9             | *             |                |                 | _pass/fail            | _1/year            | _annually           | _C               |
| Chronic Whole Effluent Toxicity   | TUc     | 1, 9             | *             |                |                 | _****                 | _1/permit cycle    | _1/permit cycle     | _C               |

|     |   |                                                                          |      |   |                        |
|-----|---|--------------------------------------------------------------------------|------|---|------------------------|
| _*  | - | Monitoring requirement only.                                             | **** | - | .C = 24-hour composite |
| **  | - | #/100mL; the Monthly Average for <i>E. coli</i> is a geometric mean.     |      |   | G = Grab               |
| *** | - | Parameter not previously established in previous state operating permit. |      |   | T = 24-hr. total       |

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**OUTFALL #001 – MAIN FACILITY OUTFALL AT NEOSHO SHOAL CREEK WWTP – DERIVATION AND DISCUSSION OF LIMITS:**

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Total Ammonia Nitrogen.** Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(5)(B)7.C. & Table B3]. Background total ammonia nitrogen = 0.01 mg/L.

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen<br>CCC (mg/L) | Total Ammonia Nitrogen<br>CMC (mg/L) |
|--------|-----------|---------|--------------------------------------|--------------------------------------|
| Summer | 26        | 7.8     | 1.5                                  | 12.1                                 |
| Winter | 6         | 7.8     | 3.1                                  | 12.1                                 |

**Summer: April 1 – September 30**

Chronic WLA:  $C_e = ((9.3 + 0.25)1.5 - (0.25 * 0.01))/9.3$   
 $C_e = 1.54 \text{ mg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)12.1 - (0.0025 * 0.01))/9.3$   
 $C_e = 12.10 \text{ mg/L}$

$LTA_c = 1.54 \text{ mg/L} (0.425) = 0.65 \text{ mg/L}$   
 $LTA_a = 12.10 \text{ mg/L} (0.107) = 1.30 \text{ mg/L}$

[CV = 2.30, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 2.30, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL =  $0.65 \text{ mg/L} (9.34) = 6.1 \text{ mg/L}$   
AML =  $0.65 \text{ mg/L} (1.79) = 1.2 \text{ mg/L}$

[CV = 2.30, 99<sup>th</sup> Percentile]  
[CV = 2.30, 95<sup>th</sup> Percentile, n =30]

**Winter: October 1 – March 31**

Chronic WLA:  $C_e = ((9.3 + 0.25)3.1 - (0.25 * 0.01))/9.3$   
 $C_e = 3.18 \text{ mg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)12.1 - (0.0025 * 0.01))/9.3$   
 $C_e = 12.10 \text{ mg/L}$

$LTA_c = 3.18 \text{ mg/L} (0.345) = 1.10 \text{ mg/L}$   
 $LTA_a = 12.10 \text{ mg/L} (0.093) = 1.12 \text{ mg/L}$

[CV = 3.12, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 3.12, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL =  $1.10 \text{ mg/L} (10.80) = 11.9 \text{ mg/L}$   
AML =  $1.10 \text{ mg/L} (2.04) = 2.2 \text{ mg/L}$

[CV = 3.12, 99<sup>th</sup> Percentile]  
[CV = 3.12, 95<sup>th</sup> Percentile, n =30]

- **Escherichia coli (E. coli).** Monthly average of 126 per 100 mL as a geometric mean and weekly average of 630 per 100 mL as a geometric mean during the recreational season (April 1 – October 31), to protect Whole Body Contact Recreation (A) designated use of the receiving stream, as per 10 CSR 20-7.031(5)(C). An effluent limit for both monthly average and weekly average is required by 40 CFR 122.45(d). The Geometric Mean is calculated by multiplying all of the data points and then taking the nth root of this product, where n = # of samples collected. For example: Five *E. coli* samples were collected with results of 1, 4, 6, 10, and 5 (#/100mL). Geometric Mean = 5<sup>th</sup> root of (1)(4)(6)(10)(5) = 5<sup>th</sup> root of 1,200 = 4.1 #/100mL.
- **pH.** 6.0-9.0 SU. pH limitations [10 CSR 20-7.015] are protective of the water quality standard [10 CSR 20-7.031(5)(E)], due to the buffering capacity of the mixing zone.
- **Oil & Grease.** Effluent limitations of 15 mg/L as a daily maximum and 10 mg/L as a monthly average have been retained from the previous permit. Oil & grease is a conventional pollutant, and effluent limitation will ensure the protection of aquatic life.
- **Total Nitrogen and Total Phosphorus.** Monitoring for total nitrogen and total phosphorus is required for facilities that have a design flow greater than 100,000 gpd per 10 CSR 20-7.015(9)(D)7. Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and nitrate + nitrite and reporting the sum of the results (reported as N). Nitrate + nitrite can be analyzed together or separately.

- **Phenol.** Protection of Aquatic Life Chronic Criteria = 2,560 µg/L, Acute Criteria = 10,200 µg/L.

Chronic WLA:  $C_e = ((9.3 + 0.25)2,560 - (0.25 * 0.0))/9.3$   
 $C_e = 2,566.9 \text{ µg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)10,200 - (0.0025 * 0.0))/9.3$   
 $C_e = 10,202.7 \text{ µg/L}$

$LTA_c = 2,566.9 (0.165) = 424.12 \text{ µg/L}$  [CV = 2.54, 99<sup>th</sup> Percentile]  
 $LTA_a = 10,202.7 (0.101) = 1,030.3 \text{ µg/L}$  [CV = 2.54, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 424.12 (9.90) = 4,200.5 µg/L [CV = 2.54, 99<sup>th</sup> Percentile]  
 AML = 424.12 (3.10) = 1,316.3 µg/L [CV = 2.54, 95<sup>th</sup> Percentile, n = 4]

### **Metals**

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the “Technical Support Document for Water Quality-based Toxic Controls” (EPA/505/2-90-001) and “The Metals Translator: Guidance For Calculating a Total Recoverable Permit Limit from a Dissolved Criterion” (EPA 823-B-96-007). General warm-water fishery criteria apply and a water hardness of 162 mg/L is used in the conversion below.

Due to the absence of contemporaneous effluent and instream data for total recoverable metals, dissolved metals, hardness, and total suspended solids with which to calculate metals translators, partitioning between the dissolved and absorbed phases was assumed to be minimal (Section 5.7.3, EPA/505/2-90-001). Freshwater criteria conversion factors for dissolved metals were used as the metals translator as recommended in guidance (Section 1.3, 1.5.3, and Table 1, EPA 823-B-96-007). If concurrent site-specific data for total recoverable metals, dissolved metals, hardness, and total suspended solids are provided to the Department, partitioning evaluations may be considered and site-specific translators developed.

| METAL        | CONVERSION FACTORS |         |
|--------------|--------------------|---------|
|              | ACUTE              | CHRONIC |
| Cadmium      | 0.924              | 0.889   |
| Chromium III | 0.316              | 0.860   |
| Chromium VI  | N/A                | N/A     |
| Copper       | 0.960              | 0.960   |
| Iron         | N/A                | N/A     |

| METAL    | CONVERSION FACTORS |         |
|----------|--------------------|---------|
|          | ACUTE              | CHRONIC |
| Lead     | 0.721              | 0.721   |
| Mercury  | 0.85               | N/A     |
| Nickel   | 0.998              | 0.997   |
| Selenium | N/A                | N/A     |
| Zinc     | 0.978              | 0.986   |

Conversion factors for Cd and Pb are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 162 mg/L.

- **Cadmium, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 0.3 µg/L, Acute Criteria = 7.6 µg/L.

Chronic = 0.3/0.889 = 0.39 µg/L  
 Acute = 7.6/0.924 = 8.23 µg/L

Chronic WLA:  $C_e = ((9.3 + 0.25)0.39 - (0.25 * 0.0))/9.3$   
 $C_e = 0.4 \text{ µg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)8.23 - (0.0025 * 0.0))/9.3$   
 $C_e = 8.23 \text{ µg/L}$

$LTA_c = 0.4 (0.597) = 0.23 \text{ µg/L}$  [CV = 0.47, 99<sup>th</sup> Percentile]  
 $LTA_a = 8.23 (0.389) = 3.2 \text{ µg/L}$  [CV = 0.47, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 0.23 (2.57) = 0.6 µg/L [CV = 0.47, 99<sup>th</sup> Percentile]  
 AML = 0.23 (1.43) = 0.3 µg/L [CV = 0.47, 95<sup>th</sup> Percentile, n = 4]



- **Chromium (III), Total Recoverable.** The previous permit included final effluent limitations of 976.2 µg/L as a daily maximum and 389.3 µg/L as a monthly average. Over the previous five years, the permittee has reported non-detects which are less than the water quality standards. It has been determined by the permit writer that at this time no reasonable potential exists for this facility to exceed water quality criteria therefore, monitoring only requirements are included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Chromium (VI), Dissolved.** The previous permit included final effluent limitations of 20.3 µg/L as a daily maximum and 8.1 µg/L as a monthly average. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Copper, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Iron, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 1,000 µg/L.

$$\begin{aligned}\text{Chronic WLA: } C_e &= ((9.3 + 0.25)1,000 - (0.25 * 0.0))/9.3 \\ C_e &= 1,002.69 \text{ µg/L}\end{aligned}$$

$$LTA_c = 1,002.69 (0.340) = 340.92 \text{ µg/L} \quad [CV = 1.12, 99^{\text{th}} \text{ Percentile}]$$

$$MDL = 340.92 (5.43) = 1,849.6 \text{ µg/L} \quad [CV = 1.12, 99^{\text{th}} \text{ Percentile}]$$

$$AML = 340.92 (2.06) = 702.5 \text{ µg/L} \quad [CV = 1.12, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Lead, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Mercury, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Nickel, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Selenium, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 5 µg/L.

$$\begin{aligned}\text{Chronic WLA: } C_e &= ((9.3 + 0.25)5 - (0.25 * 0.0))/9.3 \\ C_e &= 5.01 \text{ µg/L}\end{aligned}$$

$$LTA_c = 5.01 (0.259) = 1.3 \text{ µg/L} \quad [CV = 1.54, 99^{\text{th}} \text{ Percentile}]$$

$$MDL = 1.3 (7.06) = 9.2 \text{ µg/L} \quad [CV = 1.54, 99^{\text{th}} \text{ Percentile}]$$

$$AML = 1.3 (2.43) = 3.2 \text{ µg/L} \quad [CV = 1.54, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Zinc, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.

### **Whole Effluent Toxicity**

- **Acute Whole Effluent Toxicity.** Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.

Acute and/or Chronic Allowable Effluent Concentrations (AECs) for facilities that discharge to Waters of the State lacking designated uses, Class C, Class P (with default Mixing Considerations), or Lakes [10 CSR 20-7.031(5)(A)4.B.(IV)(b)] are 100%, 50%, 25%, 12.5%, & 6.25%.

- **Chronic Whole Effluent Toxicity.** Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.

Acute and/or Chronic Allowable Effluent Concentrations (AECs) for facilities that discharge to Waters of the State lacking designated uses, Class C, Class P (with default Mixing Considerations), or Lakes [10 CSR 20-7.031(5)(A)4.B.(IV)(b)] are 100%, 50%, 25%, 12.5%, & 6.25%.

### **Sampling Frequency Justification:**

Sampling and reporting frequency was changed from once/month to once/quarter for total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), and total recoverable selenium and from once/week to twice/month for ammonia. The reduction in sampling for all of the above listed parameters is due to the consistency of the data submitted for each parameter. This determination will be reevaluated during the next renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

**WET Test Sampling Frequency Justification.** WET Testing schedules and intervals are established in accordance with the Department's Permit Manual; Section 5.2 *Effluent Limits / WET Testing for Compliance Bio-monitoring*. It is recommended that WET testing be conducted during the period of lowest stream flow.

### **Acute Whole Effluent Toxicity**

- ☒ - No less than **ONCE/YEAR:**
  - ☒ -Facility is designated as a Major facility or has a design flow  $\geq 1.0$  MGD.
  - ☐ - Facility incorporates a pretreatment program and dilution of the receiving stream is 100x or greater.
  - ☐ - Facility continuously or routinely exceeds their design flow.
  - ☐ -Facility exceeds its design population equivalent (PE) for BOD<sub>5</sub> whether or not its design flow is being exceeded.
  - ☒ -Facility has Water Quality-based effluent limitations for toxic substances (other than NH<sub>3</sub>).

### **Chronic Whole Effluent Toxicity**

- ☒ -No less than **ONCE/PERMIT CYCLE:**
  - ☒ -POTW facilities with a design flow of greater than 1.0 million gallons per day, but less than 10 million gallons per day, shall conduct and submit to the Department a chronic WET test no less than once per five years.

### **Sampling Type Justification:**

As per 10 CSR 20-7.015, BOD<sub>5</sub>, TSS, and WET test samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH, Ammonia as N, *E. coli*, Oil & Grease, and Total Phosphorus. This is due to the holding time restriction for *E. coli*, the volatility of Ammonia, and the fact that pH cannot be preserved and must be sampled in the field. As Ammonia, Oil & Grease, and Total Phosphorus samples must be immediately preserved, these samples are to be collected as a grab.

**OUTFALL #002 (DISCHARGE AT NEOSHO CROWDER WWTP)**

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

For these permitted features, please see; Losing [10 CSR 20-7.015(4)]

**EFFLUENT LIMITATIONS TABLE:**

| PARAMETER        | Unit    | Basis for Limits | Daily Maximum |  | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|------------------|---------|------------------|---------------|--|-----------------|-----------------------|--------------------|---------------------|------------------|
| Total Phosphorus | lbs/day | 8                | 12.51         |  |                 | ***                   | 1/day              | monthly             | G                |

\* - Monitoring requirement only.

\*\*\*\* - G = Grab

\*\*\* - Parameter not previously established in previous state operating permit.

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**OUTFALL #002 – DERIVATION AND DISCUSSION OF LIMITS:**

- **Total Phosphorus.** The Neosho Crowder WWTP discharges to a stream with an EPA approved TMDL. The majority of the time, the Neosho Crowder WWTP does not discharge to the Elk River basin and was therefore not included in the TMDL calculation. During normal flows, the effluent is piped from the Neosho Crowder WWTP to the Neosho Shoal Creek WWTP before being discharged into the Shoal Creek basin. Outfall #002, however, continues to exist in the Elk River basin and may discharge under high flow conditions. The TMDL states that if the City of Neosho chooses to maintain this potential discharge to the Elk River basin, a discharge limitation of 1.5 mg/L as a daily maximum for total phosphorus will be included in the permit. The TMDL also states that the alternative would be for the City of Neosho to eliminate Outfall #002. It has been determined by the permit writer that a load-based effluent limitation is appropriate as the pollutant is total phosphorus and not a toxic pollutant. Therefore, the calculation below derives lbs/day load-based effluent limitations from the concentration based effluent limitation of 1.5 mg/L.

$$1.5 \text{ mg/L} \times 1.0 \text{ MGD} \times 8.34 \text{ lbs/gallon} = 12.51 \text{ lbs/day}$$

The actual average flow from Outfall #002 of 1.0 MGD has been used as discharges from this outfall are intermittent and dependent on the amount of flow coming to the facility. As a result of this calculation, a final effluent limitation of 12.51 lbs/day as a daily maximum has been included in this permit.

**Sampling Frequency Justification:**

Sampling frequency of once/day and reporting frequency of once/month have been established by the permit writer in order to obtain adequate data regarding the amount of total phosphorus that is being discharged during a high flow event. Absent of once/day monitoring, the department would be unable to determine compliance with the load based daily maximum effluent limitation established in the permit. This determination will be reevaluated upon renewal.

**Sampling Type Justification:**

Grab samples must be collected for total phosphorus due to the fact these samples must be immediately preserved.

**Comments:**

- **Dissolved Oxygen.** This facility adds chemicals to dechlorinate the effluent prior to discharge at Outfall #002. Dechlorination chemicals have the potential to reduce dissolved oxygen concentrations in the discharge, resulting in an anoxic discharge, unless carefully controlled. However, Outfall #002 rarely discharges and when a discharge does occur, it is due to high flow events caused by Inflow and Infiltration (I&I). Due to the receiving stream condition and the effluent condition at the time of discharges from Outfall #002, it has been determined by the permit writer that there is no reasonable potential to violate water quality standards for dissolved oxygen and therefore no monitoring requirements have been included in this permit.
- **Whole Effluent Toxicity (WET) test.** The previous permit included requirements to conduct an Acute WET test once every year at the Neosho Crowder WWTP (Outfall #002). However, when a discharge occurs at Outfall #002, it is due to high flow events caused by Inflow and Infiltration (I&I). These discharges have been determined to not be representative of the facility's performance by the permit writer due to dilution of the effluent. Additionally, WET testing should occur during critical low flow scenarios, which will not be the conditions of the receiving stream at the time of a discharge from Outfall #002. During normal flow conditions, the effluent from Outfall #002 is sent to the Neosho Shoal Creek WWTP (Outfall #001) where the effluents combine prior to sample collection for WET test purposes. This means that when the permittee collects a sample at Outfall #001 for WET test requirements, effluent from the Neosho Crowder WWTP, which is representative of normal flow conditions, will be included in the sample for compliance with WET test requirements of Outfall #001. Therefore, it has been determined by the permit writer that WET testing requirements be removed for Outfall #002 in this permit.



**OUTFALL #002 & INTERNAL MONITORING POINT #IP2**

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

For these permitted features, please see; Losing [10 CSR 20-7.015(4)]

**EFFLUENT LIMITATIONS TABLE:**

| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum | Weekly Average | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|-----------------------------------|---------|------------------|---------------|----------------|-----------------|-----------------------|--------------------|---------------------|------------------|
| Flow                              | MGD     | 1                | *             |                | _*              | _*/_*                 | 1/day              | monthly             | _T               |
| BOD <sub>5</sub>                  | mg/L    | 1                |               | 15             | _10             | _15/10                | 1/week             | monthly             | _C               |
| TSS                               | mg/L    | 1                |               | 20             | _15             | _20/15                | 1/week             | monthly             | _C               |
| Ammonia as N (Apr 1 – Sep 30)     | mg/L    | 2, 3             | 3.6           |                | _1.4            | _3.7/1.4              | 2/month            | monthly             | _G               |
| Ammonia as N (Oct 1 – Mar 31)     | mg/L    | 2, 3             | 7.5           |                | _2.9            | _7.5/2.9              | 2/month            | monthly             | _G               |
| <i>Escherichia coli</i> **        | #/100mL | 1, 3             | 126           |                | _*              | _126/126              | 1/week             | monthly             | _G               |
| Chlorine, Total Residual          | µg/L    | 1, 3             | < 130         |                | _< 130          | _<130/<130            | 1/week             | monthly             | _G               |
| Nitrates as N                     | mg/L    | 7                | *             |                | _*              | _20/10                | 1/month            | monthly             | _G               |
| PARAMETER                         | Unit    | Basis for Limits | Minimum       |                | Maximum         | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| pH                                | SU      | 1                | 6.5           |                | _9.0            | 6.5-9.0               | 1/week             | monthly             | G                |
| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum |                | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
| Total Hardness                    | mg/L    | 7                | *             |                | _*              | _*/_*                 | 1/quarter          | quarterly           | _G               |
| Oil & Grease                      | mg/L    | 1, 3             | 15            |                | _10             | _15/10                | 1/quarter          | quarterly           | _G               |
| Total Nitrogen                    | mg/L    | 1                | *             |                | _*              | _***                  | 1/quarter          | quarterly           | _G               |
| 1,2-dichloroethane                | µg/L    | 3, 7             | 10.05         |                | 5.00            | 10/5                  | 1/quarter          | quarterly           | G                |
| 1,1,1-trichloroethane             | µg/L    | 3, 7             | 402.0         |                | 200.0           | 402/200               | 1/quarter          | quarterly           | G                |
| 1,1,2-trichloroethane             | µg/L    | 3, 7             | 10.05         |                | 5.00            | 10/5                  | 1/quarter          | quarterly           | G                |
| Cyanide, Amenable to Chlorination | µg/L    | 3, 7             | < 10          |                | _< 10           | _8/4                  | 1/quarter          | quarterly           | G                |
| Phenol                            | µg/L    | 3, 7             | 201.0         |                | _100.0          | _164/82               | 1/quarter          | quarterly           | C                |
| Sulfates                          | µg/L    | 3, 7             | 502.5         |                | 250.0           | 503/250               | 1/quarter          | quarterly           | C                |
| Boron, Total Dissolved            | µg/L    | 3, 7             | 4,020.0       |                | 2,000.0         | 4,000/2,000           | 1/quarter          | quarterly           | C                |
| Cadmium, Total Recoverable        | µg/L    | 3, 7             | 0.6           |                | _0.3            | _0.6/0.3              | 1/quarter          | quarterly           | C                |
| Chromium (III), Total Recoverable | µg/L    | 3, 7             | 210.2         |                | _104.8          | _348/174              | 1/quarter          | quarterly           | C                |
| Chromium (VI), Dissolved          | µg/L    | 3, 7             | 15.0          |                | _7.5            | _16/8                 | 1/quarter          | quarterly           | G                |
| Copper, Total Recoverable         | µg/L    | 3, 7             | 22.0          |                | _11.0           | _24/12                | 1/quarter          | quarterly           | C                |
| Iron, Total Recoverable           | µg/L    | 3, 7             | *             |                | _*              | _***                  | 1/quarter          | quarterly           | C                |
| Lead, Total Recoverable           | µg/L    | 3, 7             | 9.7           |                | 4.8             | _9/5                  | 1/quarter          | quarterly           | C                |
| Mercury, Total Recoverable        | µg/L    | 3, 7             | 0.8           |                | 0.4             | _0.9/0.5              | 1/quarter          | quarterly           | C                |
| Nickel, Total Recoverable         | µg/L    | 3, 7             | 128.9         |                | 64.3            | _131/65               | 1/quarter          | quarterly           | C                |
| Selenium, Total Recoverable       | µg/L    | 3, 7             | *             |                | _*              | _***                  | 1/quarter          | quarterly           | C                |
| Zinc, Total Recoverable           | µg/L    | 3, 7             | 180.7         |                | 90.1            | 295/147               | 1/quarter          | quarterly           | C                |

|  |  |  |  |  |  |  |   |   |  |
|--|--|--|--|--|--|--|---|---|--|
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|--|--|--|--|--|--|--|---|---|--|

- |                                                                                                                                                                                                                                                      |                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <p>_* - Monitoring requirement only.</p> <p>** - No more than 10% of samples over the course of the calendar year shall exceed 126 #/100 mL daily maximum.</p> <p>*** - Parameter not previously established in previous state operating permit.</p> | <p>**** - C = 24-hour composite<br/>G = Grab<br/>T = 24-hr. total</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

- Basis for Limitations Codes:**
- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**OUTFALL #002 (DISCHARGE AT NEOSHO CROWDER WWTP) & INTERNAL MONITORING POINT #IP2 (EFFLUENT MONITORING LOCATION FOR NEOSHO CROWDER WWTP – GOLF COURSE IRRIGATION STORAGE PONDS) – DERIVATION AND DISCUSSION OF LIMITS:**

- **Flow**. In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>)**. Effluent limitations of 15 mg/L as a weekly average and 10 mg/L as a monthly average, as per [10 CSR 20-7.015] have been retained from previous state operating permit. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Effluent Limits Determination**.
- **Total Suspended Solids (TSS)**. Effluent limitations of 20 mg/L as a weekly average and 15 mg/L as a monthly average, as per [10 CSR 20-7.015] have been retained from previous state operating permit. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Effluent Limits Determination**.
- **Total Ammonia Nitrogen**. Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(5)(B)7.C. & Table B3]. Background total ammonia nitrogen = 0.01 mg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen<br>CCC (mg/L) | Total Ammonia Nitrogen<br>CMC (mg/L) |
|--------|-----------|---------|--------------------------------------|--------------------------------------|
| Summer | 26        | 7.8     | 1.5                                  | 12.1                                 |
| Winter | 6         | 7.8     | 3.1                                  | 12.1                                 |

**Summer: April 1 – September 30**

Chronic WLA:  $C_e = ((4.65 + 0.0)1.5 - (0.0 * 0.01))/4.65$   
 $C_e = 1.5 \text{ mg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)12.1 - (0.0 * 0.01))/4.65$   
 $C_e = 12.1 \text{ mg/L}$

$LTA_c = 1.5 \text{ mg/L (0.780)} = 1.17 \text{ mg/L}$   
 $LTA_a = 12.1 \text{ mg/L (0.321)} = 3.89 \text{ mg/L}$

[CV = 0.6, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 1.17 mg/L (3.11) = 3.6 mg/L  
AML = 1.17 mg/L (1.19) = 1.4 mg/L

[CV = 0.6, 99<sup>th</sup> Percentile]  
[CV = 0.6, 95<sup>th</sup> Percentile, n = 30]

**Winter: October 1 – March 31**

Chronic WLA:  $C_e = ((4.65 + 0.0)3.1 - (0.0 * 0.01))/4.65$   
 $C_e = 3.1 \text{ mg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)12.1 - (0.0 * 0.01))/4.65$   
 $C_e = 12.1 \text{ mg/L}$

$LTA_c = 3.1 \text{ mg/L (0.780)} = 2.42 \text{ mg/L}$   
 $LTA_a = 12.1 \text{ mg/L (0.321)} = 3.89 \text{ mg/L}$

[CV = 0.6, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 2.42 mg/L (3.11) = 7.5 mg/L  
AML = 2.42 mg/L (1.19) = 2.9 mg/L

[CV = 0.6, 99<sup>th</sup> Percentile]  
[CV = 0.6, 95<sup>th</sup> Percentile, n = 30]

- **Escherichia coli (E. coli)**. Discharges to losing streams shall not exceed 126 per 100 mL as a Daily Maximum at any time, as per 10 CSR 20-7.031(5)(C). Monitoring only for a monthly average. No more than 10% of samples over the course of the calendar year shall exceed 126 #/100 mL daily maximum as per 10 CSR 20-7.015(9)(B)1.G.

- **Total Residual Chlorine (TRC).** Warm-water Protection of Aquatic Life CCC = 10 µg/L, CMC = 19 µg/L [10 CSR 20-7.031, Table A]. Background TRC = 0.0 µg/L.

Chronic WLA:  $C_e = ((4.65 + 0.0)10 - (0.0 * 0.0))/4.65$   
 $C_e = 10 \text{ µg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)19 - (0.0 * 0.0))/4.65$   
 $C_e = 19 \text{ µg/L}$

$LTA_c = 10 (0.527) = 5.3 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $LTA_a = 19 (0.321) = 6.1 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

$MDL = 5.3 (3.11) = 17 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $AML = 5.3 (1.55) = 8 \text{ µg/L}$  [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be 17 µg/L (daily maximum limit) and 8 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 µg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/L will be considered to be in compliance with the permit limitation.

- **Nitrates as N.** The previous permit included final effluent limitations of 20 mg/L as a daily maximum and 10 mg/L as a monthly average in order to protect both groundwater and drinking water. After review of discharge monitoring reports over the previous five years, the permit writer made a reasonable potential determination that there is no reasonable potential to exceed the water quality standard for nitrates at this time. However, monitoring only requirements have been included in the permit in order to verify this determination. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality.
- **pH.** 6.5-9.0 SU. pH limitations of 6.0-9.0 SU [10 CSR 20-7.015] are not protective of the in-stream Water Quality Standard, which states that water contaminants shall not cause pH to be outside the range of 6.5-9.0 SU. No mixing zone is allowed due to the classification of the receiving stream, therefore the water quality standard must be met at the outfall.
- **Total Hardness.** The previous permit included monitoring only requirements, which have been retained in this permit. Due to the fact that the receiving stream is designated as losing and is effluent dominated, it has been determined by the permit writer that monitoring of the effluent for total hardness as opposed to monitoring in the receiving stream is appropriate and representative. Data collected will be used to establish a site-specific hardness value which may be used in effluent limitations derivation calculations for hardness dependent metals.
- **Oil & Grease.** Effluent limitations of 15 mg/L as a daily maximum and 10 mg/L as a monthly average have been retained from the previous permit. Oil & grease is a conventional pollutant, and effluent limitation will ensure the protection of aquatic life.
- **Total Nitrogen.** Monitoring for total nitrogen is required for facilities that have a design flow greater than 100,000 gpd per 10 CSR 20-7.015(9)(D)7. Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and nitrate + nitrite and reporting the sum of the results (reported as N). Nitrate + nitrite can be analyzed together or separately.



- **1,2-dichloroethane**. The previous permit included final effluent limitations of 10 µg/L as a daily maximum and 5 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Human Health Protection – Fish Consumption (HHP) Chronic Criteria = 99 µg/L, Protection of Drinking Water Supply (DWS) and Groundwater (GRW) Chronic Criteria = 5 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 5.0 µg/L

MDL = 5.0 (2.01) = 10.05 µg/L [CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
AML = WLA = 5.0 µg/L [TSD, EPA/505/2-90-001, Section 5.4.4]

- **1,1,1-trichloroethane**. The previous permit included final effluent limitations of 402 µg/L as a daily maximum and 200 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Drinking Water Supply (DWS) and Groundwater (GRW) Chronic Criteria = 200 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 200.0 µg/L

MDL = 200.0 (2.01) = 402.0 µg/L [CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
AML = WLA = 200.0 µg/L [TSD, EPA/505/2-90-001, Section 5.4.4]

- **1,1,2-trichloroethane**. The previous permit included final effluent limitations of 10 µg/L as a daily maximum and 5 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Human Health Protection – Fish Consumption (HHP) Chronic Criteria = 42 µg/L, Protection of Drinking Water Supply (DWS) and Groundwater (GRW) Chronic Criteria = 5 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 5.0 µg/L

MDL = 5.0 (2.01) = 10.05 µg/L [CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
AML = WLA = 5.0 µg/L [TSD, EPA/505/2-90-001, Section 5.4.4]

- **Cyanide, Amenable to Chlorination.** Protection of Aquatic Life CCC = 5 µg/L, CMC = 22 µg/L, Background CN = 0 µg/L

Chronic WLA:  $C_e = ((4.65 + 0.0)5 - (0.0 * 0.0))/4.65$   
 $C_e = 5 \text{ µg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)22 - (0.0 * 0.0))/4.65$   
 $C_e = 22 \text{ µg/L}$

$LTA_c = 5 (0.527) = 2.6 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $LTA_a = 22 (0.321) = 7.1 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

$MDL = 2.6 (3.11) = 8.2 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $AML = 2.6 (1.55) = 4.1 \text{ µg/L}$  [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

The Water Quality Based Effluent Limit for Cyanide amenable to chlorination was calculated to be 8.2 µg/L (daily maximum limit) and 4.1 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved Cyanide amenable to chlorination methods. The Department has determined the current acceptable ML of Cyanide Amenable to Chlorination (CATC) to be 10 µg/L when using SM 4500-CN<sup>-</sup>G. Cyanides Amenable to Chlorination after Distillation in Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup>. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 10 µg/L will be considered violations of the permit and values less than the minimum quantification level of 10 µg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of cyanide in excess of the effluent limits stated in the permit.

- **Phenol.** The previous permit included final effluent limitations of 164 µg/L as a daily maximum and 82 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Aquatic Life (AQL) Chronic Criteria = 2,560 µg/L, Acute Criteria = 10,200 µg/L, Protection of Drinking Water Supply (DWS) Chronic Criteria = 100 µg/L, and Protection of Groundwater (GRW) Chronic Criteria = 300 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 100.0 µg/L

$MDL = 100.0 (2.01) = 201.0 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
 $AML = WLA = 100.0 \text{ µg/L}$  [TSD, EPA/505/2-90-001, Section 5.4.4]

- **Sulfates.** The previous permit included final effluent limitations of 503 µg/L as a daily maximum and 250 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Drinking Water Supply (DWS) Chronic Criteria = 250 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 250.0 µg/L

$MDL = 250.0 (2.01) = 502.5 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
 $AML = WLA = 250.0 \text{ µg/L}$  [TSD, EPA/505/2-90-001, Section 5.4.4]

### Metals.

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the “Technical Support Document for Water Quality-based Toxic Controls” (EPA/505/2-90-001) and “The Metals Translator: Guidance For Calculating a Total Recoverable Permit Limit from a Dissolved Criterion” (EPA 823-B-96-007). General warm-water fishery criteria apply and a water hardness of 162 mg/L is used in the conversion below.

Due to the absence of contemporaneous effluent and instream data for total recoverable metals, dissolved metals, hardness, and total suspended solids with which to calculate metals translators, partitioning between the dissolved and absorbed phases was assumed to be minimal (Section 5.7.3, EPA/505/2-90-001). Freshwater criteria conversion factors for dissolved metals were used as the metals translator as recommended in guidance (Section 1.3, 1.5.3, and Table 1, EPA 823-B-96-007). If concurrent site-specific data for total recoverable metals, dissolved metals, hardness, and total suspended solids are provided to the Department, partitioning evaluations may be considered and site-specific translators developed.

| METAL        | CONVERSION FACTORS |         |
|--------------|--------------------|---------|
|              | ACUTE              | CHRONIC |
| Boron        | N/A                | N/A     |
| Cadmium      | 0.924              | 0.889   |
| Chromium III | 0.316              | 0.860   |
| Chromium VI  | N/A                | N/A     |
| Copper       | 0.960              | 0.960   |
| Iron         | N/A                | N/A     |

| METAL    | CONVERSION FACTORS |         |
|----------|--------------------|---------|
|          | ACUTE              | CHRONIC |
| Lead     | 0.721              | 0.721   |
| Mercury  | 0.85               | N/A     |
| Nickel   | 0.998              | 0.997   |
| Selenium | N/A                | N/A     |
| Zinc     | 0.978              | 0.986   |

Conversion factors for Cd and Pb are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 162 mg/L.

- **Boron, Total Dissolved.** The previous permit included final effluent limitations of 4,000 µg/L as a daily maximum and 2,000 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Irrigation (IRR) Chronic Criteria = 2,000 µg/L and Protection of Groundwater (GRW) Chronic Criteria = 2,000 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 2,000.0 µg/L

MDL = 2,000.0 (2.01) = 4,020.0 µg/L  
AML = WLA = 2,000.0 µg/L

[CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
[TSD, EPA/505/2-90-001, Section 5.4.4]

- **Cadmium, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 0.3 µg/L, Acute Criteria = 7.6 µg/L.

Chronic = 0.3/0.889 = 0.39 µg/L  
Acute = 7.6/0.924 = 8.23 µg/L

Chronic WLA:  $C_e = ((4.65 + 0.0)0.39 - (0.0 * 0.0))/4.65$   
 $C_e = 0.39 \mu\text{g/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)8.23 - (0.0 * 0.0))/4.65$   
 $C_e = 8.23 \mu\text{g/L}$

$LTA_c = 0.39 (0.527) = 0.20 \mu\text{g/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $LTA_a = 8.23 (0.321) = 2.64 \mu\text{g/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 0.20 (3.11) = 0.6 µg/L [CV = 0.6, 99<sup>th</sup> Percentile]  
AML = 0.20 (1.55) = 0.3 µg/L [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

- **Chromium (III), Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 110 µg/L, Acute Criteria = 846 µg/L.

$$\text{Chronic} = 110/0.860 = 127.96 \text{ } \mu\text{g/L}$$

$$\text{Acute} = 846/0.316 = 2,676.88 \text{ } \mu\text{g/L}$$

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)127.96 - (0.0 * 0.0))/4.65$$

$$C_e = 127.96 \text{ } \mu\text{g/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)2,676.88 - (0.0 * 0.0))/4.65$$

$$C_e = 2,676.88 \text{ } \mu\text{g/L}$$

$$\text{LTA}_c = 127.96 (0.527) = 67.49 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 2,676.88 (0.321) = 859.50 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 67.49 (3.11) = 210.2 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 67.49 (1.55) = 104.8 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Chromium (VI), Dissolved.** Protection of Aquatic Life Chronic Criteria = 10.0 µg/L, Acute Criteria = 15.0 µg/L.

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)10.0 - (0.0 * 0.0))/4.65$$

$$C_e = 10.0 \text{ } \mu\text{g/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)15.0 - (0.0 * 0.0))/4.65$$

$$C_e = 15.0 \text{ } \mu\text{g/L}$$

$$\text{LTA}_c = 10.0 (0.527) = 5.27 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 15.0 (0.321) = 4.82 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 4.82 (3.11) = 15.0 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 4.82 (1.55) = 7.5 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Copper, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 13.5 µg/L, Acute Criteria = 21.1 µg/L.

$$\text{Chronic} = 13.5/0.960 = 14.09 \text{ } \mu\text{g/L}$$

$$\text{Acute} = 21.1/0.960 = 22.05 \text{ } \mu\text{g/L}$$

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)14.09 - (0.0 * 0.0))/4.65$$

$$C_e = 14.09 \text{ } \mu\text{g/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)22.05 - (0.0 * 0.0))/4.65$$

$$C_e = 22.05 \text{ } \mu\text{g/L}$$

$$\text{LTA}_c = 14.09 (0.527) = 7.43 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 22.05 (0.321) = 7.08 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 7.08 (3.11) = 22.0 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 7.08 (1.55) = 11.0 \text{ } \mu\text{g/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Iron, Total Recoverable.** Monitoring only requirements have been added to this permit in order to determine if the facility has a reasonable potential to cause a violation of water quality standards in the receiving stream. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality. The protection of Aquatic Life Chronic Criteria = 1,000 µg/L. This is listed so the permittee may test sensitive enough to demonstrate the facility is discharging below the criteria.

- **Lead, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 4.2 µg/L, Acute Criteria = 109 µg/L.

$$\text{Chronic} = 4.2/0.721 = 5.88 \text{ µg/L}$$

$$\text{Acute} = 109/0.721 = 150.82 \text{ µg/L}$$

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)5.88 - (0.0 * 0.0))/4.65$$

$$C_e = 5.88 \text{ µg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)150.82 - (0.0 * 0.0))/4.65$$

$$C_e = 150.82 \text{ µg/L}$$

$$\text{LTA}_c = 5.88 (0.527) = 3.10 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 150.82 (0.321) = 48.42 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

$$\text{MDL} = 3.10 (3.11) = 9.7 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 3.10 (1.55) = 4.8 \text{ µg/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Mercury, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 0.5 µg/L, Acute Criteria = 2.4 µg/L.

$$\text{Acute} = 2.4/0.85 = 2.82 \text{ µg/L}$$

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)0.5 - (0.0 * 0.0))/4.65$$

$$C_e = 0.5 \text{ µg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)2.82 - (0.0 * 0.0))/4.65$$

$$C_e = 2.82 \text{ µg/L}$$

$$\text{LTA}_c = 0.5 (0.527) = 0.26 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 2.82 (0.321) = 0.91 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

$$\text{MDL} = 0.26 (3.11) = 0.8 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 0.26 (1.55) = 0.4 \text{ µg/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Nickel, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 78.3 µg/L, Acute Criteria = 705 µg/L.

$$\text{Chronic} = 78.3/0.997 = 78.50 \text{ µg/L}$$

$$\text{Acute} = 705/0.998 = 706.10 \text{ µg/L}$$

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)78.50 - (0.0 * 0.0))/4.65$$

$$C_e = 78.50 \text{ µg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)706.10 - (0.0 * 0.0))/4.65$$

$$C_e = 706.10 \text{ µg/L}$$

$$\text{LTA}_c = 78.50 (0.527) = 41.40 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 706.10 (0.321) = 226.72 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

$$\text{MDL} = 41.40 (3.11) = 128.9 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 41.40 (1.55) = 64.3 \text{ µg/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Selenium, Total Recoverable.** Monitoring only requirements have been added to this permit in order to determine if the facility has a reasonable potential to cause a violation of water quality standards in the receiving stream. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality. The protection of Aquatic Life Chronic Criteria = 5 µg/L. This is listed so the permittee may test sensitive enough to demonstrate the facility is discharging below the criteria.

- **Zinc, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 176.71 µg/L, Acute Criteria = 176.71 µg/L.

Chronic =  $176.71/0.986 = 179.22 \text{ µg/L}$

Acute =  $176.71/0.978 = 180.69 \text{ µg/L}$

Chronic WLA:  $C_e = ((4.65 + 0.0)179.22 - (0.0 * 0.0))/4.65$   
 $C_e = 179.22 \text{ µg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)180.69 - (0.0 * 0.0))/4.65$   
 $C_e = 180.69 \text{ µg/L}$

$LTA_c = 179.22 (0.527) = 94.53 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

$LTA_a = 180.69 (0.321) = 58.02 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL =  $58.02 (3.11) = 180.7 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

AML =  $58.02 (1.55) = 90.1 \text{ µg/L}$  [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

#### **Sampling Frequency Justification:**

Sampling and reporting frequency was changed from once/week to twice/month for ammonia and nitrates, from once/week to once/quarter for total hardness, oil & grease, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, cyanide amenable to chlorination, phenol, sulfates, total dissolved boron, total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc. These changes in sampling and reporting frequency are due to the infrequency of the discharge at these locations along with the determination made by the permit writer that the effluent concentrations for the above listed parameters consistency of the discharges. This determination will be reevaluated upon renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

#### **Sampling Type Justification:**

As per 10 CSR 20-7.015, BOD<sub>5</sub>, TSS, and WET test samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH, Ammonia as N, *E. coli*, TRC, Oil & Grease, and Total Phosphorus. This is due to the holding time restriction for *E. coli*, the volatility of Ammonia and TRC, and the fact that pH cannot be preserved and must be sampled in the field. As Ammonia, Oil & Grease, and Total Phosphorus samples must be immediately preserved, these samples are to be collected as a grab.

#### **Comments:**

- **Monitoring Requirements.** This permit includes both individual and combined requirements for Outfall #002 and Internal Monitoring Point #IP2, as all effluent limitations and monitoring requirements for these permitted features are identical except for total phosphorus. Outfall #002 has been granted a schedule of compliance to meet final effluent limitations for total phosphorus whereas Internal Monitoring Point #IP2 is only required to monitor for total phosphorus. In order to demonstrate this, the permit writer has created Tables A-5 and A-6 for Outfall #002 and Table A-7 for Internal Monitoring Point #IP2 as it relates to total phosphorus. All other requirements for Outfall #002 and Internal Monitoring Point #IP2 can be found on Tables A-8, A-9, and A-10. Although the two permitted features are included in Tables A-8, A-9, and A-10 together, the requirements identified in these tables apply to the two permitted features separately. This means that if a discharge occurs from both Outfall #002 and Internal Monitoring Point #IP2, the facility will be required to sample and report effluent results from both permitted feature locations. Sample results are not to be averaged between the different permitted features.
- **Expanded Effluent Testing.** It has been determined by the permit writer that expanded effluent testing requirements of the renewal application are not required for Outfall #002 or Internal Monitoring Point #IP2. Expanded effluent testing allows the permit writer to make decisions regarding potential effluent limitation or monitoring requirements, which will not be a result of this sampling at Outfall #002 or Internal Monitoring Point #IP2. Discharges from Outfall #002 historically are rare in frequency and occur during high flow events due to Inflow and Infiltration (I&I) into the collection system. As a result, samples taken from Outfall #002 would not be representative of the seasonal variation in the discharge since they will occur during the same stream and effluent conditions. Expanded effluent testing is required by the application for renewal at Outfall #001, which will include effluent from both wastewater plants and will allow for the permittee to collect samples representative of seasonal variation.

### INTERNAL MONITORING POINT #IP3 (TBEL MONITORING LOCATION FOR NEOSHO CROWDER WWTP)

#### EFFLUENT LIMITATIONS TABLE:

| PARAMETER                        | Unit | Basis for Limits | Daily Maximum           | Weekly Average | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|----------------------------------|------|------------------|-------------------------|----------------|-----------------|-----------------------|--------------------|---------------------|------------------|
| Flow                             | MGD  | 1                | *                       |                | .*              | .*/*                  | 1/day              | monthly             | T                |
| BOD <sub>5</sub>                 | mg/L | 1                |                         | 65             | 45              | ***                   | 1/week             | monthly             | C                |
| TSS                              | mg/L | 1                |                         | 65             | 45              | ***                   | 1/week             | monthly             | C                |
| PARAMETER                        | Unit | Basis for Limits | Minimum                 |                | Maximum         | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| pH                               | SU   | 1                | 6.0                     |                | 9.0             | 6.5-9.0               | 1/week             | monthly             | G                |
| PARAMETER                        | Unit | Basis for Limits | Monthly Average Minimum |                |                 | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| BOD <sub>5</sub> Percent Removal | %    | 1                | .65                     |                |                 | .65                   | 1/month            | monthly             | M                |
| TSS Percent Removal              | %    | 1                | .65                     |                |                 | .65                   | 1/month            | monthly             | M                |

\* - Monitoring requirement only.

\*\*\* - Parameter not previously established in previous state operating permit.

\*\*\*\* - C = 24-hour composite

G = Grab

T = 24-hr. total

M = Measured/Calculated

#### **Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

#### INTERNAL MONITORING POINT #IP3 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>).** Technology based effluent limitations [10 CSR 20-7.015] of 65 mg/L as a weekly average and 45 mg/L as a monthly average have been included in the permit due to the fact that effluent at this location is from the Neosho Crowder WWTP, which is a trickling filter.
- **Total Suspended Solids (TSS).** Technology based effluent limitations [10 CSR 20-7.015] of 65 mg/L as a weekly average and 45 mg/L as a monthly average have been included in the permit due to the fact that effluent at this location is from the Neosho Crowder WWTP, which is a trickling filter.
- **pH.** 6.0-9.0 SU. pH limitations of 6.0-9.0 SU [10 CSR 20-7.015] are required at this location in order to demonstrate that the Neosho Crowder WWTP is meeting the requirements of 10 CSR 20-7.015 prior to the mixing of effluents from Neosho Crowder WWTP and Neosho Shoal Creek WWTP.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>) Percent Removal.** In accordance with 40 CFR Part 133.102(a)(3) & (b)(3), removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 65% removal efficiency for BOD<sub>5</sub>.
- **Total Suspended Solids (TSS) Percent Removal.** In accordance with 40 CFR Part 133.105(a)(3) & (b)(3), removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 65% removal efficiency for TSS.

#### Sampling Frequency Justification:

Sampling and reporting frequency has been established to match the sampling frequency in the previous permit.

#### Sampling Type Justification:

As per 10 CSR 20-7.015, BOD<sub>5</sub> and TSS samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH. This is due to the fact that pH cannot be preserved and must be sampled in the field.

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**PERMITTED FEATURE #SM1 – INSTREAM MONITORING (UPSTREAM)**

**MONITORING REQUIREMENTS TABLE:**

| PARAMETER        | Unit | Basis for Limits | Daily Maximum |  | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|------------------|------|------------------|---------------|--|-----------------|-----------------------|--------------------|---------------------|------------------|
| Total Nitrogen   | mg/L | 7                | *             |  | _*              | _****                 | _quarterl<br>y     | _quarterl<br>y      | _G               |
| Total Phosphorus | mg/L | 7                | *             |  | _*              | _****                 | _quarterl<br>y     | quarterly           | _G               |

\_\* - Monitoring requirement only.      \_\*\*\*\* - G = Grab  
\_\*\*\* - Parameter not previously established in previous state operating permit.

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**PERMITTED FEATURE #SM1 – DERIVATION AND DISCUSSION OF MONITORING REQUIREMENTS:**

- Total Nitrogen and Total Phosphorus.** Facilities with a design flow greater than 100,000 gallons per day are required to sample their effluent quarterly for total nitrogen and total phosphorus per 10 CSR 20-7.015(9)(D)7. Upstream monitoring for these parameters is necessary to determine background stream concentrations in order to complete calculations that determine instream nutrient loading.

**Sampling Frequency Justification:**

Sampling and reporting frequency for total nitrogen and total phosphorus has been established to match the required sampling frequency of these parameters in the effluent.

**Sampling Type Justification**

As total nitrogen and total phosphorus samples must be immediately preserved; these samples are to be collected as a grab.

**PERMITTED FEATURE #SM2 – INSTREAM MONITORING (DOWNSTREAM)**

**MONITORING REQUIREMENTS TABLE:**

| PARAMETER      | Unit | Basis for Limits | Daily Maximum |  | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|----------------|------|------------------|---------------|--|-----------------|-----------------------|--------------------|---------------------|------------------|
| Total Hardness | mg/L | 1, 3             | *             |  | _*              | _****                 | _quarterl<br>y     | _quarterl<br>y      | _G               |

\_\* - Monitoring requirement only.      \_\*\*\*\* - G = Grab  
\_\*\*\* - Parameter not previously established in previous state operating permit.

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**PERMITTED FEATURE #SM2 – DERIVATION AND DISCUSSION OF MONITORING REQUIREMENTS:**

- Total Hardness.** Data collected will be used to establish a site-specific hardness value which may be used in effluent limitations derivation calculations for hardness dependent metals.

**Sampling Frequency Justification:**

Sampling and reporting frequency for total hardness has been established to match the required sampling frequency of the metals parameters in the effluent.

**Sampling Type Justification**

As total hardness samples must be immediately preserved; these samples are to be collected as a grab.

## **Part VIII – Cost Analysis for Compliance**

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a “finding of affordability” on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

☒ - The Department is required to determine “findings of affordability” because the permit applies to a combined or separate sanitary sewer system for a publically-owned treatment works.

**Cost Analysis for Compliance** - The Department has made a reasonable search for empirical data indicating the permit is affordable. The search consisted of a review of Department records that might contain economic data on the community, a review of information provided by the applicant as part of the application, and public comments received in response to public notices of this draft permit. If the empirical cost data was used by the permit writer, this data may consist of median household income, any other ongoing projects that the Department has knowledge, and other demographic financial information that the community provided as contemplated by Section 644. 145.3. See **Appendix – Cost Analysis for Compliance**.

## **Part IX – Administrative Requirements**

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

### **PERMIT SYNCHRONIZATION:**

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than 4 years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit. With permit synchronization, this permit will expire in the 4<sup>th</sup> Quarter of calendar year 2017. If the department issues the permit at this time, the effective period of the permit would be less than one year in length. To ensure efficient use of department staff, reduce the department’s permitting back log and to provide better service to the permittee by avoiding another renewal application to be submitted in such a short time period this operating permit will be issued for the maximum timeframe of five years and synched with other permits in the watershed at a later date.

**PUBLIC NOTICE:**

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing. The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit. For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

☐ - The Public Notice period for this operating permit was from February 10, 2017 to March 13, 2017. No responses received.

**DATE OF FACT SHEET:** SEPTEMBER 27, 2016

**REVISED:** JANUARY 18, 2017

**COMPLETED BY:**

**CAMERON EISTERHOLD, ENVIRONMENTAL SPECIALIST  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT  
(573) 751-7326  
cameron.eisterhold@dnr.mo.gov**

## Appendices

### APPENDIX - CLASSIFICATION WORKSHEET:

| ITEM                                                                                                              | POINTS POSSIBLE                            | POINTS ASSIGNED |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------|
| Maximum Population Equivalent (P.E.) served (Max 10 pts.)                                                         | 1 pt./10,000 PE or major fraction thereof. | 6               |
| Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)                                    | 1 pt. / MGD or major fraction thereof.     | 6               |
| EFFLUENT DISCHARGE RECEIVING WATER SENSITIVITY:                                                                   |                                            |                 |
| Missouri or Mississippi River                                                                                     | 0                                          | -               |
| All other stream discharges except to losing streams and stream reaches supporting whole body contact             | 1                                          | -               |
| Discharge to lake or reservoir outside of designated whole body contact recreational area                         | 2                                          | -               |
| Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation            | 3                                          | 3               |
| PRELIMINARY TREATMENT – Headworks                                                                                 |                                            |                 |
| Screening and/or comminution                                                                                      | 3                                          | 3               |
| Grit removal                                                                                                      | 3                                          | -               |
| Plant pumping of main flow (lift station at the headworks)                                                        | 3                                          | -               |
| PRIMARY TREATMENT                                                                                                 |                                            |                 |
| Primary clarifiers                                                                                                | 5                                          | 5               |
| Combined sedimentation/digestion                                                                                  | 5                                          | -               |
| Chemical addition (except chlorine, enzymes)                                                                      | 4                                          | -               |
| REQUIRED LABORATORY CONTROL – performed by plant personnel (highest level only)                                   |                                            |                 |
| Push – button or visual methods for simple test such as pH, Settleable solids                                     | 3                                          | -               |
| Additional procedures such as DO, COD, BOD, titrations, solids, volatile content                                  | 5                                          | 5               |
| More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc. | 7                                          | -               |
| Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph                             | 10                                         | -               |
| ALTERNATIVE FATE OF EFFLUENT                                                                                      |                                            |                 |
| Direct reuse or recycle of effluent                                                                               | 6                                          | -               |
| Land Disposal – low rate                                                                                          | 3                                          | 3               |
| High rate                                                                                                         | 5                                          | -               |
| Overland flow                                                                                                     | 4                                          | -               |
| Total from page <b>ONE (1)</b>                                                                                    | ----                                       | 31              |

**APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):**

| ITEM                                                                                             | POINTS POSSIBLE | POINTS ASSIGNED |
|--------------------------------------------------------------------------------------------------|-----------------|-----------------|
| <b>VARIATION IN RAW WASTE (highest level only) (DMR exceedances and Design Flow exceedances)</b> |                 |                 |
| Variation do not exceed those normally or typically expected                                     | 0               | 0               |
| Recurring deviations or excessive variations of 100 to 200 % in strength and/or flow             | 2               | -               |
| Recurring deviations or excessive variations of more than 200 % in strength and/or flow          | 4               | -               |
| Raw wastes subject to toxic waste discharge                                                      | 6               | -               |
| <b>SECONDARY TREATMENT</b>                                                                       |                 |                 |
| Trickling filter and other fixed film media with secondary clarifiers                            | 10              | 10              |
| Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)   | 15              | 15              |
| Stabilization ponds without aeration                                                             | 5               | -               |
| Aerated lagoon                                                                                   | 8               | -               |
| Advanced Waste Treatment Polishing Pond                                                          | 2               | -               |
| Chemical/physical – without secondary                                                            | 15              | -               |
| Chemical/physical – following secondary                                                          | 10              | -               |
| Biological or chemical/biological                                                                | 12              | -               |
| Carbon regeneration                                                                              | 4               | -               |
| <b>DISINFECTION</b>                                                                              |                 |                 |
| Chlorination or comparable                                                                       | 5               | 5               |
| Dechlorination                                                                                   | 2               | 2               |
| On-site generation of disinfectant (except UV light)                                             | 5               | -               |
| UV light                                                                                         | 4               | 4               |
| <b>SOLIDS HANDLING – SLUDGE</b>                                                                  |                 |                 |
| Solids Handling Thickening                                                                       | 5               | 5               |
| Anaerobic digestion                                                                              | 10              | -               |
| Aerobic digestion                                                                                | 6               | 6               |
| Evaporative sludge drying                                                                        | 2               | 2               |
| Mechanical dewatering                                                                            | 8               | -               |
| Solids reduction (incineration, wet oxidation)                                                   | 12              | -               |
| Land application                                                                                 | 6               | 6               |
| Total from page <b>TWO (2)</b>                                                                   | ----            | 55              |
| Total from page <b>ONE (1)</b>                                                                   | ---             | 31              |
| Grand Total                                                                                      | ---             | 86              |

- ☒ - A: 71 points and greater  
☐ - B: 51 points – 70 points  
☐ - C: 26 points – 50 points  
☐ - D: 0 points – 25 points

**APPENDIX – RPA RESULTS:**

**OUTFALL #001**

| Parameter                               | CMC*                                                                                                                         | RWC<br>Acute* | CCC*   | RWC<br>Chronic* | n**   | Range<br>max/min | CV*** | MF    | RP<br>Yes/No |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------|--------|-----------------|-------|------------------|-------|-------|--------------|
| Total Ammonia as Nitrogen (Summer) mg/L | 12.1                                                                                                                         | 120.45        | 1.5    | 117.33          | 27.00 | 21.9/0.027       | 2.30  | 5.50  | YES          |
| Total Ammonia as Nitrogen (Winter) mg/L | 12.1                                                                                                                         | 123.43        | 3.1    | 120.23          | 28.00 | 22.3/0.025       | 3.01  | 5.54  | YES          |
| Cadmium, Total Recoverable              | 8.2                                                                                                                          | 4.30          | 0.4    | 4.29            | 19.00 | 3.4/0.25         | 0.47  | 1.26  | YES          |
| Chromium (III), Total Recoverable       | <i>Over the previous five years, the permittee has reported non-detects which are less than the water quality standards.</i> |               |        |                 |       |                  |       |       |              |
| Chromium (VI), Dissolved                | 15.0                                                                                                                         | 6.11          | 10.0   | 6.10            | 19.00 | 5/0.005          | 0.40  | 1.22  | NO           |
| Copper, Total Recoverable               | 22.0                                                                                                                         | 11.30         | 14.1   | 11.27           | 17.00 | 7.2/0.5          | 0.39  | 1.57  | NO           |
| Iron, Total Recoverable                 | NA                                                                                                                           | NA            | 1000.0 | 1216.94         | 14.00 | 308/18.5         | 1.12  | 3.96  | YES          |
| Lead, Total Recoverable                 | 150.8                                                                                                                        | 3.05          | 5.9    | 3.04            | 13.00 | 2.5/0.5          | 0.34  | 1.22  | NO           |
| Mercury, Total Recoverable              | 2.8                                                                                                                          | 0.14          | 0.5    | 0.14            | 13.00 | 0.13/0.1         | 0.08  | 1.05  | NO           |
| Nickel, Total Recoverable               | 706.1                                                                                                                        | 6.74          | 78.5   | 6.72            | 17.00 | 4.7/1.3          | 0.29  | 1.43  | NO           |
| Selenium, Total Recoverable             | NA                                                                                                                           | NA            | 5.0    | 13.07           | 47.00 | 7/0.15           | 1.54  | 1.87  | YES          |
| Zinc, Total Recoverable                 | 180.7                                                                                                                        | 178.71        | 179.2  | 178.28          | 20.00 | 94.2/10.6        | 0.52  | 1.90  | NO           |
| Phenol                                  | 10200.0                                                                                                                      | 6612.76       | 2560.0 | 6596.80         | 10.00 | 520/0.025        | 2.54  | 12.72 | YES          |

N/A – Not Applicable

\* - Units are (µg/L) unless otherwise noted.

\*\* - If the number of samples is 10 or greater, then the CV value must be used in the WQBEL for the applicable constituent. If the number of samples is < 10, then the default CV value must be used in the WQBEL for the applicable constituent.

\*\*\* - Coefficient of Variation (CV) is calculated by dividing the Standard Deviation of the sample set by the Mean of the same sample set.

RWC – Receiving Water Concentration. It is the concentration of a toxicant or the parameter toxicity in the receiving water after mixing (if applicable).

n – Is the number of samples.

MF – Multiplying Factor. 99% Confidence Level and 99% Probability Basis.

RP – Reasonable Potential. It is where an effluent is projected or calculated to cause an excursion above a water quality standard based on a number of factors including, as a minimum, the four factors listed in 40 CFR 122.44(d)(1)(ii).

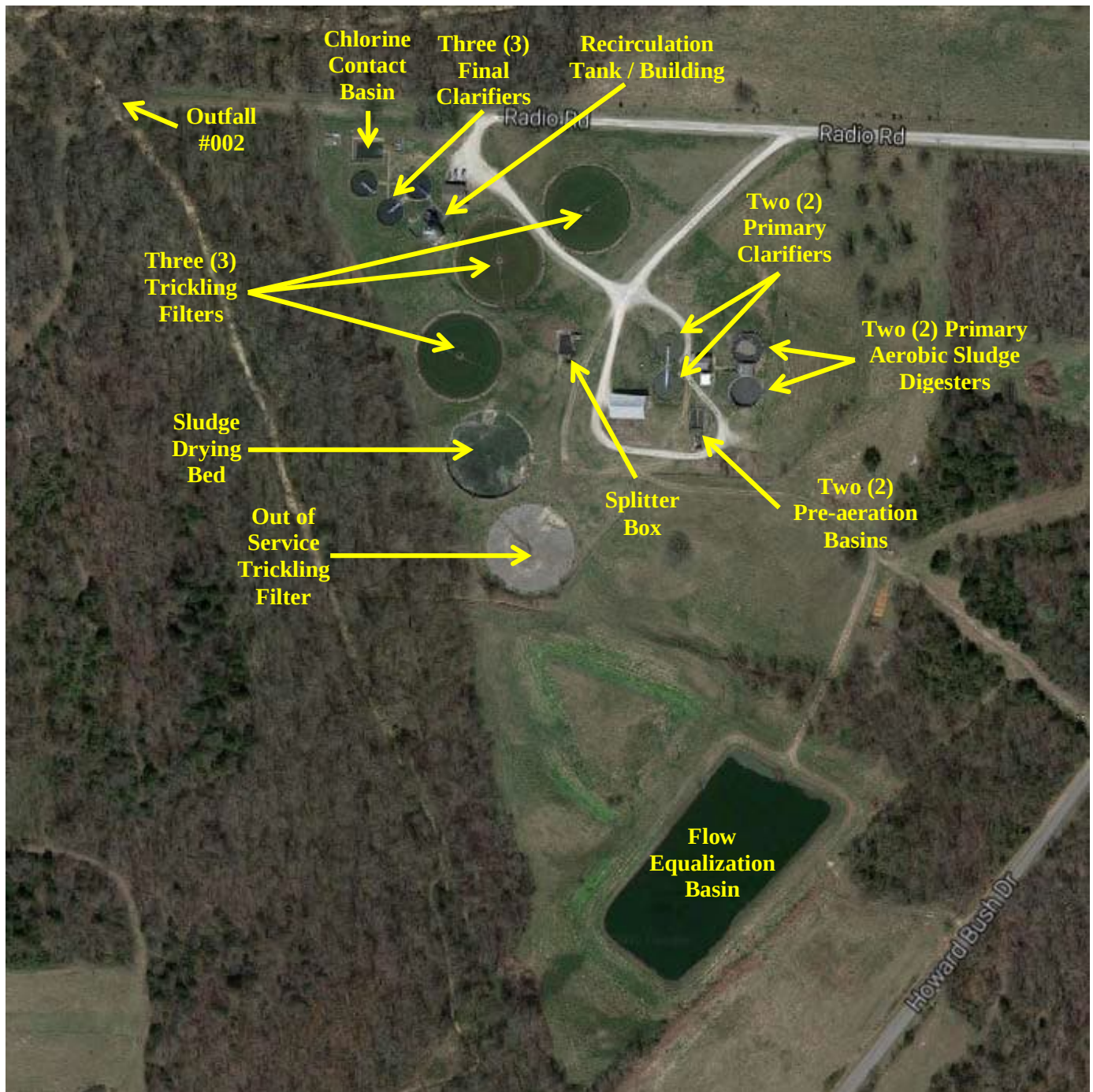
Reasonable Potential Analysis is conducted as per (TSD, EPA/505/2-90-001, Section 3.3.2). A more detailed version including calculations of this RPA is available upon request.

**APPENDIX – ALTERNATIVE: FACILITY AERIAL FOR SHOAL CREEK WWTP**



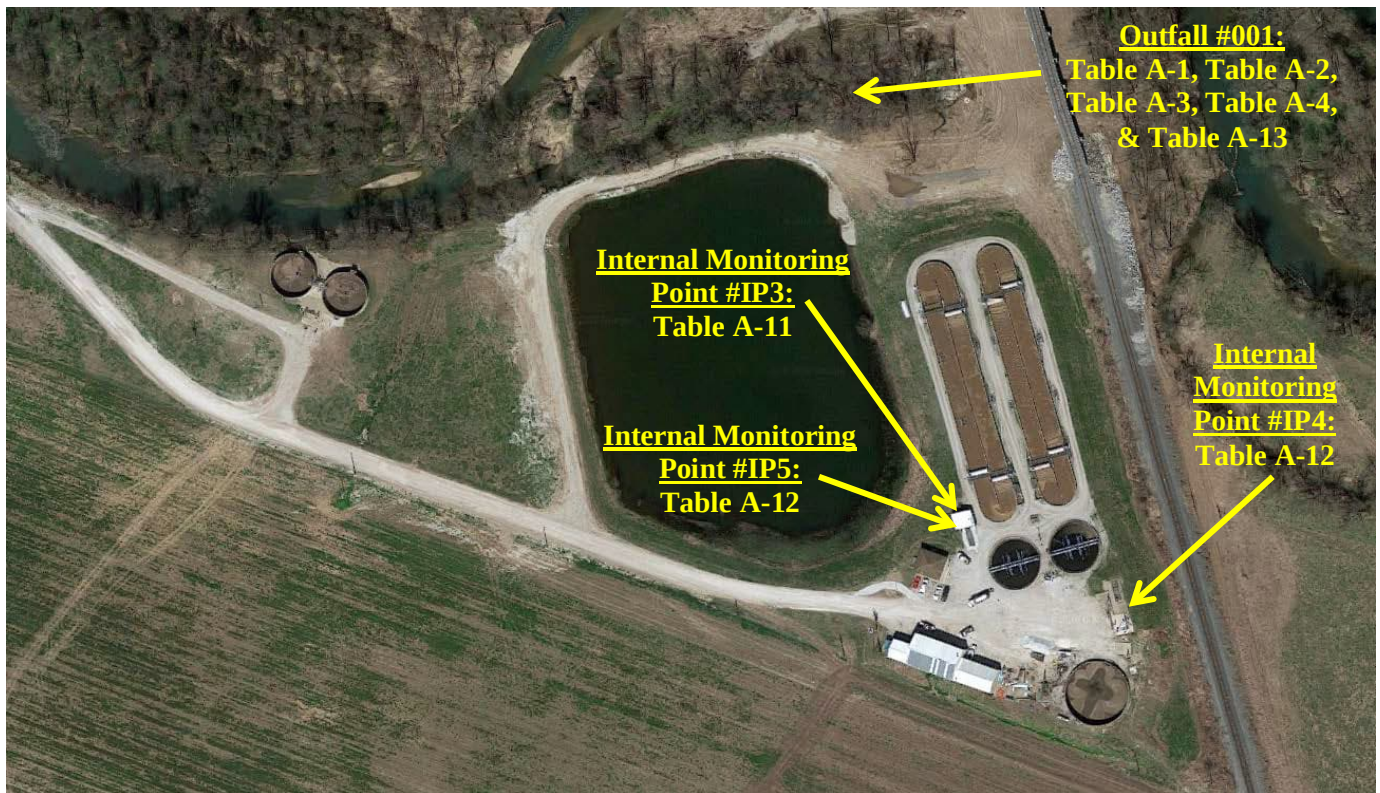


**APPENDIX – ALTERNATIVE: FACILITY AERIAL FOR NEOSHO CROWDER WWTP**



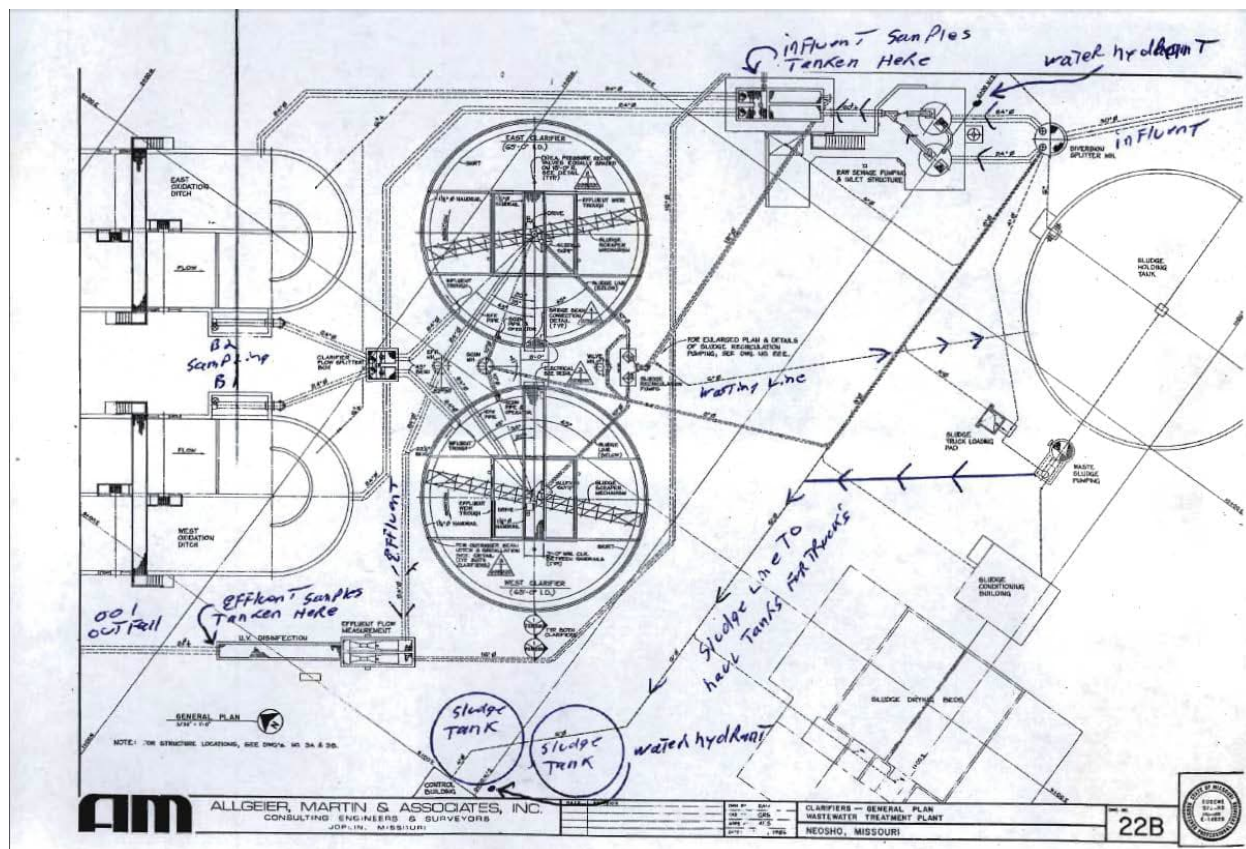


**APPENDIX – ALTERNATIVE: MONITORING LOCATIONS AND ASSOCIATED TABLES**

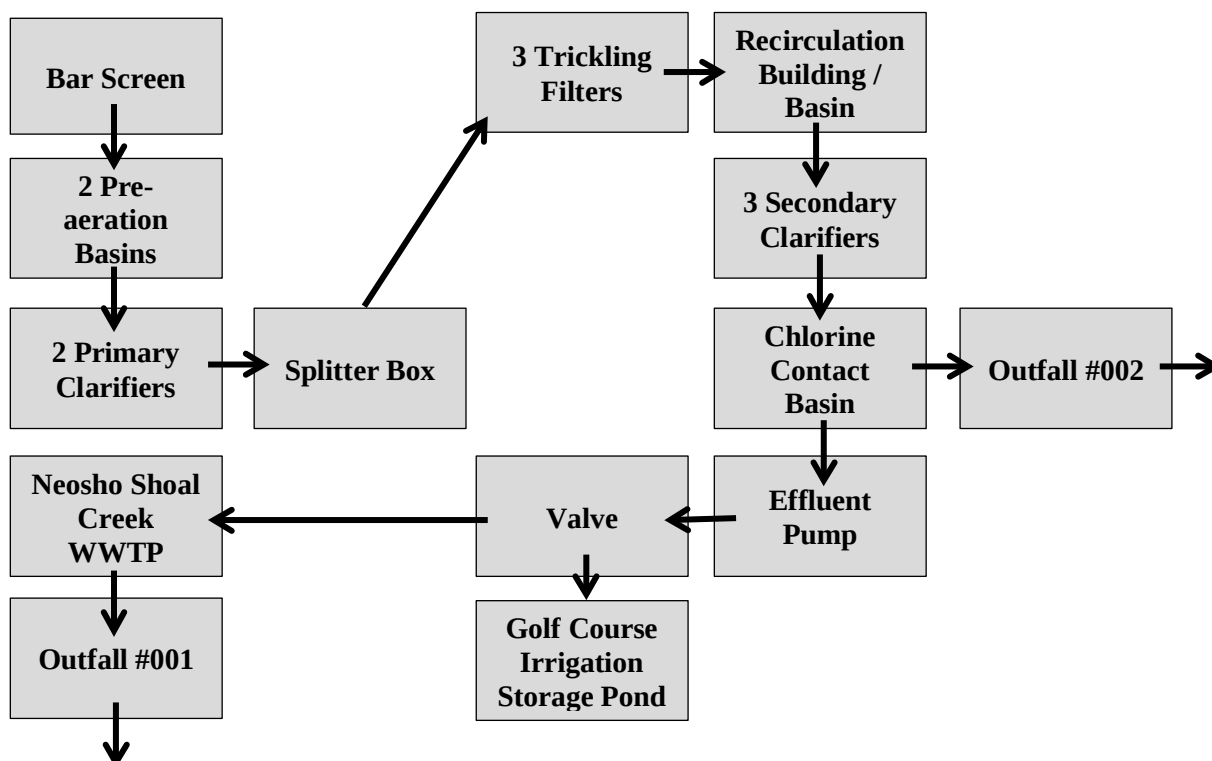




APPENDIX – ALTERNATIVE: PROCESS FLOW DIAGRAM FOR NEOSHO SHOAL CREEK WWTP



APPENDIX – ALTERNATIVE: PROCESS FLOW DIAGRAM FOR NEOSHO CROWDER WWTP



**APPENDIX – COST ANALYSIS FOR COMPLIANCE:**

**Missouri Department of Natural Resources  
Water Protection Program  
Cost Analysis for Compliance  
(In accordance with RSMo 644.145)**

**Neosho Wastewater Treatment Plant, Permit Renewal  
City of Neosho  
Missouri State Operating Permit #MO-0104906**

Section 644.145 RSMo requires the Department of Natural Resources (DNR) to make a “finding of affordability” when “issuing permits under” or “enforcing provisions of” state or federal clean water laws “pertaining to any portion of a combined or separate sanitary sewer system for publicly-owned treatment works.”

This cost analysis is based on data available to the Department as provided by the permittee and data obtained from readily available sources. For the most accurate analysis, it is essential that the permittee provides the Department with current information about the City’s financial and socioeconomic situation. The financial questionnaire available to permittees on the DNR website (<http://dnr.mo.gov/forms/780-2511-f.pdf>) should have been submitted with the permit renewal application. If it was not received with the renewal application, the Department sent a request to complete it with the welcome letter. The Department currently uses software to estimate the cost for reconstruction of a treatment plant titled CAPDEWORKS (CapDet). CapDet is a preliminary design and costing software program from Hydromantis<sup>1</sup> for wastewater treatment plants that uses national indices, such as the Marshall and Swift Index and Engineering News Records Cost Index for pricing in development of capital, operating, maintenance, material, and energy costs for each treatment technology. As the program works from national indices and each community is unique in its budget commitments and treatment design, the estimated costs are expected to be higher than actual costs. The cost estimates located within this document are for the construction of a brand new treatment facility or system that is the most practical to facilitate compliance with new requirements. For the most accurate analysis, it is essential that the permittee provides the Department with current information about the City’s financial and socioeconomic situation.

The Department is required to issue a permit with final effluent limits in accordance with 644.051.1.(1) RSMo, 644.051.1.(2) RSMo, and the Clean Water Act. The table below summarizes the results of this cost analysis for the City of Neosho. The practical result of this analysis is to incorporate a long compliance schedule into the permit in order to mitigate adverse impact to distressed populations resulting from the costs of upgrading the wastewater treatment facility.

| <b>Cost Analysis for Compliance Summary Table</b>                                                  |                                                             |                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Estimated present worth for adding chemical addition for phosphorus removal at Outfall #002</b> | <b>Median Household Income (MHI) for the City of Neosho</b> | <b>Estimated monthly cost per user as a percent of MHI (including estimated costs per user per month for additional monitoring requirements)</b> |
| <b>\$841,000</b>                                                                                   | <b>\$36,422</b>                                             | <b>0.79%</b>                                                                                                                                     |

**Facility Description:**

This permit includes two wastewater treatment facilities which serve the City of Neosho. These facilities were previously permitted separately – Neosho Crowder WWTP (MO-0039926) and Neosho Shoal Creek WWTP (MO-0104906). During normal operations at the Neosho Crowder WWTP, effluent is sent to the Neosho Shoal Creek WWTP, where effluent from the two plants mix together prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Therefore, it has been determined by the permit writer that combining the two permits into one permit is appropriate.

**Outfall #001 – Main Facility Outfall at Neosho Shoal Creek WWTP – POTW – SIC #4952**

Flow equalization basin / bar screen / 2 oxidation ditches / 2 final clarifiers / ultraviolet disinfection / aerobic sludge digester / 2 aerated sludge holding basins / sludge is land applied.

**Outfall #002 – Discharge at Neosho Crowder WWTP (previously permitted as Outfall #001 in MO-0039926) – POTW – SIC #4952**

Flow equalization basin / bar screen / 2 pre-aeration basins / 2 primary clarifiers / 3 trickling filters / recirculation basin / 3 secondary clarifiers / chlorine disinfection / chlorine contact basin / dechlorination / 2 primary aerobic sludge digesters / sludge drying bed / sludge is land applied.

## Facility Description (continued):

### Flow evaluated for potential construction projects:

Design flow of 3.0 MGD (Neosho Crowder WWTP design flow only – Outfall #002 is the only location required to meet a total phosphorus effluent limitation).

| City of Neosho Total Number of Connections: Neosho Shoal Creek WWTP & Neosho Crowder WWTP |                            |
|-------------------------------------------------------------------------------------------|----------------------------|
| Residential Connections:                                                                  | 4,246                      |
| Commercial Connections:                                                                   | Not provided by applicant. |
| Industrial Connections:                                                                   | 132                        |
| Total Connections for this facility:                                                      | <b>4,378</b>               |

### New Permit Requirements:

The permit requires compliance at Outfall #002 with new effluent limitations for total phosphorus, which may require the design, construction and operation of different treatment technology. The cost assumptions in this cost analysis do not assume the complete replacement of the existing facility, rather that if construction does occur, it will be in addition to the current facility. To calculate the estimated user cost per 5,000 gallons, the Department used the equations currently being used in the Financial Assistance Center's rate calculator. The equations account for replacement of equipment during the life of the treatment facility, debt retirement, capital costs, and an inflation factor. The calculator evaluates multiple technologies through CapDet at a range of flows, then, using a linear interpolation, develops a spreadsheet outlining high and low costs for treatment plants. For this analysis the Department has selected the mechanical treatment technology that could be the most practical solution to meet the new requirements for the community. Because the methods used to derive the analysis estimate costs that are greater than actual costs associated with an upgrade, it reflects a conservative estimate anticipated for a community. An overestimation of costs is due to the fact that it is not possible for the permit writer to determine what existing equipment and structures will be reused in the upgraded facility before an engineer completes a facility design.

This permit also requires compliance with new monitoring requirements illustrated in the table below.

| Permitted Feature                              | New Monitoring Requirements Included in the Permit                                                                                                                                       |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outfall #001                                   | New quarterly monitoring requirements for total nitrogen and total phosphorus and new requirements to conduct a Chronic Whole Effluent Toxicity (WET) test once during the permit cycle. |
| Outfall #002                                   | New daily monitoring for total phosphorus and new quarterly monitoring requirements for total nitrogen, total recoverable iron, and total recoverable selenium.                          |
| Internal Monitoring Point #IP2                 | New quarterly monitoring requirements for total nitrogen, total phosphorus, total recoverable iron, and total recoverable selenium.                                                      |
| Internal Monitoring Point #IP4                 | Increased influent monitoring requirements for Biochemical Oxygen Demand <sub>5</sub> and Total Suspended Solids from once/quarter to once/month.                                        |
| Instream (Upstream) Monitoring Location #SM1   | New quarterly monitoring requirements for total nitrogen and total phosphorus.                                                                                                           |
| Instream (Downstream) Monitoring Location #SM2 | New quarterly monitoring requirements for total hardness.                                                                                                                                |
| Additional Requirements                        | New requirements that the permittee shall implement a Stormwater Pollution Prevention Plan (SWPPP).                                                                                      |

The size of the facility evaluated for upgrades was chosen based on the permitted design flow. If significant population growth is expected in the community, or if a significant portion of the flow is due to I&I, the flows used in the Facility Plan prepared by a consulting engineer may be different than this flow.

### Anticipated Costs Associated with Complying with the New Requirements:

#### Cost associated with chemical addition for phosphorus removal:

The total present worth to add chemical addition treatment for phosphorus removal is estimated at \$841,000 (*CAPDEWORKS cost estimator was used*). This cost, if financed through user fees, might cost each household approximately \$0.97 per month. Due to the design limitations in the CapDet cost estimator, these costs have been over estimated. It is the Department's opinion that chemical addition for phosphorus removal is the most practical treatment technology for your community based on the current design flow. A more detailed engineering and design report conducted for your specific facility will be completed by your hired engineer. This may reflect a different type of treatment option than what is described within this analysis and may include additional collection system work or additional upgrades at the treatment plant.

**Cost associated with new sampling requirements:**

| Permitted Feature                              | Total Annual Cost of New Monitoring Requirements |
|------------------------------------------------|--------------------------------------------------|
| Outfall #001                                   | \$698.00                                         |
| Outfall #002                                   | \$688.00                                         |
| Internal Monitoring Point #IP2                 | \$688.00                                         |
| Internal Monitoring Point #IP4                 | \$684.00                                         |
| Instream (Upstream) Monitoring Location #SM1   | \$388.00                                         |
| Instream (Downstream) Monitoring Location #SM2 | \$188.00                                         |
| Additional Requirements – SWPPP                | \$2,000.00                                       |
| <b>Total Annual Cost</b>                       | <b>\$5,334.00</b>                                |

The total cost estimated for new monitoring requirements is \$5,334.00 annually. This cost, if financed through user fees, might cost each household an extra \$0.10 per month. A community sets their user rates based on several factors. The percentage of the current user rate that is available to cover new debt is unknown to the Department. Therefore, the permit writer has added this additional sampling cost per user per month to the estimated resulting user cost per household per month in Table B below.

This cost analysis does not dictate that a permittee will upgrade their facility, or how they will comply with the new permit requirements. For any questions associated with the *CAPDEWORKS cost estimator*, please contact the Engineering Section at (573) 751-6621.

**(1) A community's financial capability and ability to raise or secure necessary funding;**

|                                                                                                                                                                                                        |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Current Monthly User Rates:                                                                                                                                                                            | \$22.83                        |
| Rate Capacity or Pay as You Go Option:                                                                                                                                                                 | Not provided by the applicant. |
| Municipal Bond Rating (if applicable):                                                                                                                                                                 | Not provided by the applicant. |
| Bonding Capacity:<br>(General Obligation Bond capacity allowed by constitution:<br>cities=up to 20% of taxable tangible property<br>sewer districts or villages=up to 5% of taxable tangible property) | Not provided by the applicant. |
| Current outstanding debt for the WWTP:                                                                                                                                                                 | Not provided by the applicant. |
| Amount within the current user rate used toward payments on<br>outstanding debt related to the current wastewater infrastructure:                                                                      | Not provided by the applicant. |

Though the Department has made attempts to gather financial information from the City of Neosho; no information has been provided. The Department has relied heavily on readily available data to complete this analysis.

**(2) Affordability of pollution control options for the individuals or households at or below the median household income level of the community;**

**A Current Costs**

|                                                        |                                |
|--------------------------------------------------------|--------------------------------|
| Current annual operating costs (exclude depreciation): | Not provided by the applicant. |
| Current monthly user rate:                             | \$22.83                        |

## B Estimated Costs for Chemical Addition for Phosphorus Removal Control Option

|                                                                                                                                                                                    |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Estimated total present worth of pollution control:*                                                                                                                               | \$841,000                                                                                             |
| Estimated capital cost of pollution control:**                                                                                                                                     | \$301,000                                                                                             |
| Annual cost of operation and maintenance:***                                                                                                                                       | \$27,000                                                                                              |
| Estimated additional user cost per household per month for chemical addition for phosphorus removal:                                                                               | \$0.97                                                                                                |
| Estimated additional user cost per household per month for new monitoring requirements:                                                                                            | \$0.10                                                                                                |
| Estimated resulting user cost per household per month:****                                                                                                                         | \$23.90                                                                                               |
| Estimated resulting user cost per household per month plus the amount within the current user rate used toward payments on outstanding debt:                                       | The community did not provide the Department with information regarding the current outstanding debt. |
| Median household income(MHI): <sup>2</sup>                                                                                                                                         | \$36,422                                                                                              |
| Cost per household as a percent of median household income: <sup>3</sup>                                                                                                           | 0.79%                                                                                                 |
| Estimated cost per household per month plus the amount within the current user rate used toward payments on outstanding debt as a percent of median household income: <sup>4</sup> | The community did not provide the Department with information regarding the current outstanding debt. |

CAPDET estimates the total present worth to finance the addition of chemical addition for phosphorus removal to be approximately \$841,000. If financed through user costs, the future user costs have the potential to be estimated at \$23.90 per month, which includes the estimated costs per user per month for additional monitoring requirements. These costs assume a 5% interest rate over 20 years. It is the Department's opinion that chemical addition for phosphorus removal is the most practical mechanical treatment option for the design flow of this facility.

The resulting cost per household as a percent of MHI will be used as the residential indicator in Criteria 7 below.

- \* Total Present Worth includes a five percent interest rate to construct and perform annual operation and maintenance of the new treatment plant over the term of the loan.
- \*\* Capital Cost includes project costs from CapDet with design, inspection and contingency costs.
- \*\*\* O&M cost shown in Table B includes operations, maintenance, materials, chemical and electrical costs for the facility on an annual basis. It includes items that are expected to replace during operations, such as pumps. O&M is estimated between 15% and 45% of the user cost.
- \*\*\*\* The Estimated User Cost shown in Table B is composed of the Current User Rate plus Operation & Maintenance (O&M) plus Debt Retirement Costs plus the estimated additional user cost per household per month for new monitoring requirements (\$22.83 + \$0.97 + \$0.10 = \$23.90).

### (3) An evaluation of the overall costs and environmental benefits of the control technologies;

The investment in wastewater treatment will provide several social, environmental and economic benefits. Improved wastewater provides benefits such as avoided health costs due to water-related illness, enhanced environmental ecosystem quality, and improved natural resources. The preservation of natural resources has been proven to increase the economic value and sustainability of the surrounding communities. Maintaining Missouri's water quality standards fulfill the goals of restoring and maintaining the chemical, physical and biological integrity of the receiving stream; and, where attainable, to achieves a level of water quality that provides for the protection and propagation of fish, shellfish, wildlife and recreation in and on the water.

### **Nutrient Monitoring**

Nutrients are mineral compounds that are required for organisms to grow and thrive. Of the six (6) elemental macronutrients, Nitrogen and Phosphorus are generally not readily available and limit growth of organisms. Excess nitrogen and phosphorus will cause a shift in the ecosystem's food web. Once excess nitrogen and phosphorus are introduced into a waterbody, some species' populations will dramatically increase, while other populations will not be able to sustain life. Competition and productivity are two factors in which nutrients can alter aquatic ecosystems and the designated uses of a waterbody. For example, designated uses, such as drinking water sources and recreational uses become impaired when algal blooms take over a waterbody. These blooms can cause foul tastes and odors in the drinking water, unsightly appearance, and fish mortality in the waterbody. Some algae also produce toxins that may cause serious adverse health conditions such as liver damage, tumor promotion, paralysis, and kidney damage. The monitoring requirements for Nitrogen and Phosphorus have been added to the permit to provide data regarding the health of the receiving stream's aquatic life. A healthy ecosystem is beneficial as it provides reduced impacts on human and aquatic health as well as recreational opportunities.

### **Total Recoverable Metals**

Total recoverable metals can cause water quality issues instream. Monitoring requirements and effluent limitations will ensure the protection and propagation of fish, shellfish, wildlife and recreation in and on the water.

### **Total Hardness**

This permit contains final effluent limitations for total recoverable hardness dependent metals. Quarterly hardness monitoring will ensure the facility does not exceed water quality standards for total recoverable metals by utilizing a site-specific hardness in final effluent limitation derivations.

### **Whole Effluent Toxicity (WET) test**

The WET Test is a quantifiable method of determining if discharge from a facility may be causing toxicity to aquatic life by itself or in combination with receiving stream water. WET tests are required under 10 CSR 20-6.010(8)(A)4 to be performed by specialists properly trained in conducting the test according to 40 CFR 136. This test will help ensure that the existing permit limits are providing adequate protection for aquatic life at minimal expense to the permittee.

### **Stormwater Pollution Prevention Plan**

Stormwater runoff is water from rain or snowmelt that does not immediately infiltrate into the ground and flows over or through natural or man-made storage or conveyance systems. When undeveloped areas are converted to land uses with impervious surfaces such as buildings, parking lots, and roads, the natural hydrology of the land is altered and can result in increased surface runoff rates, volumes, and pollutant loads. Stormwater runoff picks up industrial pollutants and typically discharges them directly into nearby waterbodies or indirectly via storm sewer systems. Runoff from areas where industrial activities occur can contain toxic pollutants (e.g., heavy metals and organic chemicals) and other pollutants such as trash, debris, and oil and grease, when facility practices allow exposure of industrial materials to stormwater. This increased flow and pollutant load can impair waterbodies, degrade biological habitats, pollute drinking water sources, and cause flooding and hydrologic changes to the receiving water, such as channel erosion. Industrial facilities typically perform a portion of their activities in outdoor areas exposed to the elements. This may include activities such as material storage and handling, vehicle fueling and maintenance, shipping and receiving, and salt storage, all of which can result in pollutants being exposed to precipitation and capable of being carried off in stormwater runoff. Also, facilities may have performed industrial activities outdoors in the past and materials from those activities still remain exposed to precipitation. In addition, accidental spills and leaks, improper waste disposal, and illicit connections to storm sewers may also lead to exposure of pollutants to stormwater.

A SWPPP is a written document that identifies the industrial activities conducted at the site, including any structural control practices, which the industrial facility operator will implement to prevent pollutants from making their way into stormwater runoff. The SWPPP also must include descriptions of other relevant information, such as the physical features of the facility, and procedures for spill prevention, conducting inspections, and training of employees. The SWPPP is intended to be a "living" document, updated as necessary, such that when industrial activities or stormwater control practices are modified or replaced, the SWPPP is similarly revised to reflect these changes.

### **(4) Inclusion of ongoing costs of operating and maintaining the existing wastewater collection and treatment system, including payments on outstanding debts for wastewater collection and treatment systems when calculating projected rates:**

The community did not provide the Department with information, nor could it be found through readily available data.

**(5) An inclusion of ways to reduce economic impacts on distressed populations in the community, including but not limited to low and fixed income populations. This requirement includes but is not limited to:**

- (a) Allowing adequate time in implementation schedules to mitigate potential adverse impacts on distressed populations resulting from the costs of the improvements and taking into consideration local community economic considerations.
- (b) Allowing for reasonable accommodations for regulated entities when inflexible standards and fines would impose a disproportionate financial hardship in light of the environmental benefits to be gained.

**Socioeconomic Data**<sup>5-13:</sup>

| <b>Potentially Distressed Populations – City of Neosho</b> |          |
|------------------------------------------------------------|----------|
| Total Population (2015)                                    | 12,102   |
| Percent Population Growth/Decline (2000-2015)              | +15.2%   |
| 2015 MHI (in First-Half-of-2016 Dollar)                    | \$36,422 |
| Percent Change in MHI (2000-2015)                          | -15.72%  |
| Median Age (2015)                                          | 34.2     |
| Percent Change in Median Age (2000-2015)                   | -3.1%    |
| Unemployment Rate (2015)                                   | 4.3%     |
| Percent of Households in Poverty (2015)                    | 20.2%    |
| Percent of Households Receiving Food Stamps (2015)         | 19.3%    |

Opportunity for cost savings or cost avoidance:

- If available, connection to a larger centralized sewer system in the area may be more cost effective for the community.
- An opportunity may exist for the relocation of the point of discharge to a receiving stream capable of a greater mixing zone.
- The permittee may apply for State Revolving Fund (SRF) financial support in order to help fund a Capital Improvements Plan. Other loans and grants also exist for which the facility may be eligible. Contact information for the Department's Financial Assistance Center (FAC) and more information can be found on the Department's website at <http://dnr.mo.gov/env/wpp/srf/wastewater-assistance.htm>.

Opportunity for changes to implementation/compliance schedule, new technology, site specific criteria, use attainability analysis:

- The facility may propose changes to the schedule of compliance based on their own cost estimate or financial information.
- An integrated plan may be an appropriate option if they community needs to meet other environmental obligations as well as the new requirements within this permit. The integrated plan needs to be well thought out with specific timeframes built into the management plan that the municipality can reasonably commit to. The plan should be designed that will allow each municipality to meet their Clean Water Act obligations by maximizing their infrastructure improvement dollars through the appropriate sequencing of work.
- If the permittee can demonstrate that the proposed pollution controls result in substantial and widespread economic and social impact, the permittee may use Factor 6 of the Use Attainability Analysis (UAA) 40 CFR 131.10(g)(6) in the form of a variance. This process is completed by determining the treatment type with the highest attainable effluent quality that would not result in a socio-economic hardship. This process could potentially become expensive in itself.

**(6) An assessment of other community investments and operating costs relating to environmental improvements and public health protection;**

The community did not provide the Department with information, nor could it be found through readily available data.



- (7) An assessment of factors set forth in the United States Environmental Protection Agency's guidance, including but not limited to the "Combined Sewer Overflow Guidance for Financial Capability Assessment and Schedule Development" that may ease the cost burdens of implementing wet weather control plans, including but not limited to small system considerations, the attainability of water quality standards, and the development of wet weather standards;

**Secondary indicators for consideration:**

| Indicators                                                 | Strong<br>(3 points)                        | Mid-Range<br>(2 points)            | Weak<br>(1 point)                           | Score                          |
|------------------------------------------------------------|---------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------|
| Bond Rating Indicator                                      | Above BBB or Baa                            | BBB or Baa                         | Below BBB or Baa                            | Not provided by the applicant. |
| Overall Net Debt as a % of Full Market Property Value      | Below 2%                                    | 2% - 5%                            | Above 5%                                    | Not provided by the applicant. |
| Unemployment Rate                                          | >1 below Missouri average of 8.1%           | ± 1 of Missouri average of 8.1%    | >1 above Missouri average of 8.1%           | 3                              |
| Median Household Income                                    | More than 25% above Missouri MHI (\$48,380) | ± 25% of Missouri MHI (\$48,380)   | More than 25% below Missouri MHI (\$48,380) | 2                              |
| Percent of Households in Poverty*                          | >10% below Missouri average of 15.6%        | ± 10% of Missouri average of 15.6% | >10% above Missouri average of 15.6%        | 2                              |
| Percent of Households Receiving Food Stamps*               | >5% below Missouri average of 13.5%         | ± 5% of Missouri average of 13.5%  | >5% above Missouri average of 13.5%         | 1                              |
| Property Tax Revenues as a % of Full Market Property Value | Below 2%                                    | 2% - 4%                            | Above 4%                                    | Not provided by the applicant. |
| Property Tax Collection Rate                               | Above 98%                                   | 94% - 98%                          | Below 94%                                   | Not provided by the applicant. |

\* Financial Capability Indicators are specific to the State of Missouri

Financial Capability (FCI) Indicators Average Score:

2.0

Chemical Addition for Phosphorus Removal Residential Indicator (RI, from Criteria #2 above):

0.79%

**Financial Capability Matrix:**

| Financial Capability Indicators Score from above ↓ | Residential Indicator (User cost as a % of MHI)                  |                                      |                      |
|----------------------------------------------------|------------------------------------------------------------------|--------------------------------------|----------------------|
|                                                    | Low<br>(Below 1%)                                                | Mid-Range<br>(Between 1.0% and 2.0%) | High<br>(Above 2.0%) |
| Weak (below 1.5)                                   | Medium Burden                                                    | High Burden                          | High Burden          |
| Mid-Range (1.5 – 2.5)                              | <b>Low Burden<br/>(Chemical Addition for Phosphorus Removal)</b> | Medium Burden                        | High Burden          |
| Strong (above 2.5)                                 | Low Burden                                                       | Medium Burden                        | High Burden          |

Estimated Financial Burden for Chemical Addition for Phosphorus Removal:

Low Burden

The resulting financial burden has been determined by comparing the Financial Capability Indicator score (FCI) with the Residential Indicator (RI) stated in Criteria #2. The cost associated with chemical addition for phosphorus removal could result in a Low financial burden placed on the community due to the Mid-Range FCI paired with the Low RI. Please see Criteria #2 for more information on the costs specific this treatment technology.

- (8) An assessment of any other relevant local community economic condition.

The community did not report any other relevant local economic conditions.

Conclusion and Finding

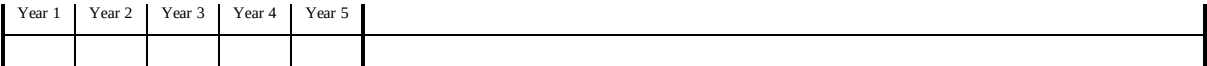
As a result of new regulations, the Department is proposing modifications to the current operating permit that may require the permittee to upgrade the facility, construct new control technologies, and to increase monitoring.

The Department considered the eight (8) criteria presented in subsection 644.145.3 when evaluating the cost associated with the relevant actions. The Department estimates the resulting monthly user costs for adding chemical addition to the existing treatment facility in order to meet new total phosphorus effluent limitations at Outfall #002 plus new and increased monitoring requirements could be \$23.90. Using this analysis, the Department finds that chemical addition for phosphorus removal is the most practical and affordable option for your community. The construction and operation of chemical addition for phosphorus removal will ensure that the individuals within the community will not be required to make unreasonable sacrifices in their essential lifestyle or spending patterns or undergo hardships in order to make the projected monthly payments for sewer connections. The Department finds that chemical addition for phosphorus removal may require user costs to be as high as 0.79% of the community’s MHI (shown in Criteria #2).

In accordance with 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(11), compliance must occur as soon as possible. Therefore, based on this analysis the City of Neosho has received a five (5) year schedule of compliance for the design and construction of chemical addition for phosphorus removal. The following timeline illustrates milestones on which the five (5) year schedule of compliance should focus to maintain compliance with the permit requirements.

Timeline 1: (not drawn to scale)

5 Year Renewal



Five (5) year Schedule of Compliance

20 year Estimated Life of Facility

Suggested milestones to meet within each year listed below:

- Year 1. Hire an engineer and conduct an evaluation of both the rate structure and the treatment plant.
- Year 2. Hold a bond election, apply for State Revolving Fund loans and/or grants, and submit a facility plan.
- Year 3. Apply for a Construction Permit and close on the loan.
- Year 4. Construction. The facility should also submit an application for renewal of the existing operating permit with new financial and socio-economic data.
- Year 5. Complete construction.

The schedule of compliance allows the community the five years to hire an engineer, evaluate operations and rate structure, obtain an engineering report, hold a bond election, close on a loan, construct the facility upgrades, and complete the project. At this time the community will know what the user rates will be based on the present worth of the chosen treatment type decided on by the community and the design engineer hired by the community. It is anticipated by the Department that rates will be increased at the end of the permit cycle to mitigate the cost of compliance of the new requirements.

The Department is committed to reassessing the cost analysis for compliance at renewal to determine if the initial schedule of compliance will accommodate the socioeconomic data and financial capability of the community at that time. In this longer time frame, the Department will work with you to explore the wastewater treatment options that make the most sense for your community. By working more closely with your community, the Department and permittees will be able to identify opportunities to extend the schedule of compliance, if appropriate. Because each community is unique, we want to make sure that you have the opportunity to consider all your options and tailor solutions to best meet your community’s needs. The Department understands the economic challenges associated with achieving compliance, and is committed to using all available tools to make an accurate and practical finding of affordability for the communities in the State. If the community wishes to seek funding from the Department, please contact the Financial Assistance Center for more information. <http://www.dnr.mo.gov/env/Wpp/srf/index.html>

This determination is based on readily available data and may overestimate the financial impact on the community. The community’s facility plan that is submitted as a part of the construction permit process includes a discussion of community details, what the community can afford, existing obligations, future growth potential, an evaluation of options available to the community with cost information, and a discussion on no-discharge alternatives. The cost information provided through the facility plan process, which is developed by the community and their engineer, is more comprehensive of the community’s individual factors in relation to selected treatment technology and costing information.

## References:

| Additional Information Regarding New Costs                          |                                                                              |
|---------------------------------------------------------------------|------------------------------------------------------------------------------|
| Current User Costs / 5,000 gallons                                  | \$22.83                                                                      |
| Monthly O&M                                                         | $((\$27,000 / 12 \text{ months}) / 4,378 \text{ users}) = \$0.51$            |
| Annual Debt Retirement                                              | \$24,153                                                                     |
| Monthly Debt Retirement per user                                    | $((\$24,153 / 12 \text{ months}) / 4,378 \text{ users}) = \$0.46$            |
| Estimated User Costs / 5,000 gallons                                | $\$0.51 + \$0.46 = \mathbf{\$0.97}$                                          |
| Monthly New Sampling / User                                         | $((\$5,334.00 / 4,378 \text{ users}) / 12 \text{ months}) = \mathbf{\$0.10}$ |
| Estimated User Costs including Monthly New Sampling / 5,000 gallons | $\$22.83 + \$0.97 + \$0.10 = \mathbf{\$23.90}$                               |

1. <http://www.hydromantis.com/>
2. U.S. Census Bureau. 2010-2015 American Community Survey 5-Year Estimates, Table B19013: Median Household Income in the Past 12 Months (in 2015 Inflation-Adjusted Dollars).  
[http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\\_15\\_5YR\\_B19013&prodType=table](http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_B19013&prodType=table). U.S. Department of Labor Bureau of Labor Statistics (2016) Consumer Price Index - All Urban Consumers, All items, 1982-84=100, Midwest Urban Areas. [http://data.bls.gov/timeseries/CUUR0300SA0?data\\_tool=Xgtable](http://data.bls.gov/timeseries/CUUR0300SA0?data_tool=Xgtable).
3.  $(\$23.90/(\$36,422/12))100\% = 0.79\%$  (chemical addition for phosphorus removal)
4. Outstanding debt was not provided by the community
5. U.S. Census Bureau. 2011-2015 American Community Survey 5-Year Estimates, Table B01003: Total Population - Universe: Total Population.  
[http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\\_15\\_5YR\\_B01003&prodType=table](http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_B01003&prodType=table).
6. U.S. Census Bureau (2002) 2000 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, PHC-1-1 Part 1. United States Summary, Table 1. Age and Sex: 2000, Washington, DC., Page 2.  
<https://www.census.gov/prod/cen2000/phc-1-1-pt1.pdf>. U.S. Census Bureau (2002) 2000 Census of Population and Housing, Summary Population and Housing Characteristics, PHC-1-27, Missouri, Table 2. Age and Sex: 2000, Washington, DC., Pages 64-92. <http://www.census.gov/prod/cen2000/phc-2-27-pt1.pdf>.
7. U.S. Census Bureau. 2010-2015 American Community Survey 5-Year Estimates, Table B19013: Median Household Income in the Past 12 Months (in 2015 Inflation-Adjusted Dollars).  
[http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\\_15\\_5YR\\_B19013&prodType=table](http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_B19013&prodType=table).
8. U.S. Census Bureau (2003) 2000 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, PHC-2-1 Part 1. United States Summary, Table 5. Work Status and Income in 1999: 2000, Washington, DC., Page 5. <https://www.census.gov/prod/cen2000/phc-2-1-pt1.pdf>. U.S. Census Bureau (2003) 2000 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, PHC-2-27, Missouri, Table 10. Work Status and Income in 1999: 2000, Washington, DC., Pages 223-237. <https://www.census.gov/prod/cen2000/phc-2-27-pt1.pdf>.
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These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

## Part I – General Conditions

### Section A – Sampling, Monitoring, and Recording

1. **Sampling Requirements.**
  - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
  - b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
2. **Monitoring Requirements.**
  - a. Records of monitoring information shall include:
    - i. The date, exact place, and time of sampling or measurements;
    - ii. The individual(s) who performed the sampling or measurements;
    - iii. The date(s) analyses were performed;
    - iv. The individual(s) who performed the analyses;
    - v. The analytical techniques or methods used; and
    - vi. The results of such analyses.
  - b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
4. **Test Procedures.** The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is “sufficiently sensitive” when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility’s discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee’s sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. **Illegal Activities.**
  - a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
  - b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

### Section B – Reporting Requirements

1. **Planned Changes.**
  - a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
    - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
    - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
    - iii. The alteration or addition results in a significant change in the permittee’s sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
    - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.
2. **Non-compliance Reporting.**
  - a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



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- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
    - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
    - ii. Any upset which exceeds any effluent limitation in the permit.
    - iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
  - c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
3. **Anticipated Noncompliance.** The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
  4. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
  5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
  6. **Other Information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.
  7. **Discharge Monitoring Reports.**
    - a. Monitoring results shall be reported at the intervals specified in the permit.
    - b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
    - c. Monitoring results shall be reported to the Department no later than the 28<sup>th</sup> day of the month following the end of the reporting period.
- b. Notice.
    - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
    - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
  - c. Prohibition of bypass.
    - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
      1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      3. The permittee submitted notices as required under paragraph 2. b. of this section.
    - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.
3. **Upset Requirements.**
    - a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
    - b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
      - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
      - ii. The permitted facility was at the time being properly operated; and
      - iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
      - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
    - c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

## Section C – Bypass/Upset Requirements

1. **Definitions.**
  - a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
  - b. *Severe Property Damage*: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
  - c. *Upset*: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
2. **Bypass Requirements.**
  - a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.

## Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
  - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
  - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement





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- imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
- d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.
2. **Duty to Reapply.**
- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
- b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- c. A permittee with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
5. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
6. **Permit Actions.**
- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
- i. Violations of any terms or conditions of this permit or the law;
- ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
- iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
- iv. Any reason set forth in the Law or Regulations.
- b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
7. **Permit Transfer.**
- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
- b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
- c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.



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10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
  - a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
  - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.
12. **Closure of Treatment Facilities.**
  - a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
  - b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.
13. **Signatory Requirement.**
  - a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
  - b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
  - c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.



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PART II - SPECIAL CONDITIONS – PUBLICLY OWNED  
TREATMENT WORKS  
SECTION A – INDUSTRIAL USERS

**1. Definitions**

Definitions as set forth in the Missouri Clean Water Laws and approved by the Missouri Clean Water Commission shall apply to terms used herein.

Significant Industrial User (SIU). Except as provided in the *General Pretreatment Regulation* 10 CSR 20-6.100, the term Significant Industrial User means:

1. All Industrial Users subject to Categorical Pretreatment Standards; and
2. Any other Industrial User that: discharges an average of 25,000 gallons per day or more of process wastewater to the Publicly-Owned Treatment Works (POTW) (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the Industrial User has a reasonable potential for adversely affecting the POTW's or for violating any Pretreatment Standard or requirement.

Clean Water Act (CWA) is the the federal Clean Water Act of 1972, 33 U.S.C. § 1251 et seq. (2002).

**2. Identification of Industrial Discharges**

Pursuant to 40 CFR 122.44(j)(1), all POTWs shall identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR 403.

**3. Application Information**

Applications for renewal or modification of this permit must contain the information about industrial discharges to the POTW pursuant to 40 CFR 122.21(j)(6)

**4. Notice to the Department**

Pursuant to 40 CFR 122.42(b), all POTWs must provide adequate notice of the following:

1. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging these pollutants; and
2. Any substantial change into the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
3. For purposes of this paragraph, adequate notice shall include information on:
  - i. the quality and quantity of effluent introduced into the POTW, and
  - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

For POTWs without an approved pretreatment program, the notice of industrial discharges which was not included in the permit application shall be made as soon as practicable. For POTWs with an approved pretreatment program, notice is to be included in the annual pretreatment report required in the special conditions of this permit. Notice may be sent to:

Missouri Department of Natural Resources  
Water Protection Program  
Attn: Pretreatment Coordinator  
P.O. Box 176  
Jefferson City, MO 65102



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**March 1, 2015**

**PART III – SLUDGE AND BIOSOLIDS FROM DOMESTIC AND INDUSTRIAL WASTEWATER  
TREATMENT FACILITIES**

**SECTION A – GENERAL REQUIREMENTS**

1. This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation for domestic wastewater and industrial process wastewater. This permit also incorporates applicable federal sludge disposal requirements under 40 CFR 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR 503 for domestic wastewater. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address the federal requirements.
2. These PART III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW), privately owned facilities and sludge or biosolids generated at industrial facilities.
3. Sludge and Biosolids Use and Disposal Practices:
  - a. The permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in the facility description of this permit.
  - b. The permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
  - c. The permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.
4. Sludge Received from other Facilities:
  - a. Permittees may accept domestic wastewater sludge from other facilities including septic tank pumpings from residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
  - b. The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source of the sludge
5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.
6. These permit requirements do not supersede nor remove liability for compliance with other environmental regulations such as odor emissions under the Missouri Air Pollution Control Law and regulations.
7. This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act or under Chapter 644 RSMo.
8. In addition to STANDARD CONDITIONS, the Department may include sludge limitations in the special conditions portion or other sections of a site specific permit.
9. Alternate Limits in the Site Specific Permit.

Where deemed appropriate, the Department may require an individual site specific permit in order to authorize alternate limitations:

  - a. A site specific permit must be obtained for each operating location, including application sites.
  - b. To request a site specific permit, an individual permit application, permit fee, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.
10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the Department, as follows:
  - a. The Department will prepare a permit modification and follow permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owner of the property located adjacent to each land application site, where appropriate.
  - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR 503.

## **SECTION B – DEFINITIONS**

1. Best Management Practices include agronomic loading rates, soil conservation practices and other site restrictions.
2. Biosolids means organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge.
3. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
4. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
5. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
6. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a (POTW) or a privately owned facility.
7. Industrial wastewater means any wastewater, also known as process water, not defined as domestic wastewater. Per 40 CFR Part 122, process water means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.
8. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including septic tanks, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological discs, and other similar facilities. It does not include wastewater treatment lagoons and constructed wetlands for wastewater treatment.
9. Operating location as defined in 10 CSR 20-2.010 is all contiguous lands owned, operated or controlled by one (1) person or by two (2) or more persons jointly or as tenants in common.
10. Plant Available Nitrogen (PAN) is the nitrogen that will be available to plants during the growing seasons after biosolids application.
11. Public contact site is land with a high potential for contact by the public. This includes, but is not limited to, public parks, ball fields, cemeteries, plant nurseries, turf farms, and golf courses.
12. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks or equivalent facilities. Sludge does not include carbon coal byproducts (CCBs)
13. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
14. Septage is the material pumped from residential septic tanks and similar treatment works (with a design population of less than 150 people). The standard for biosolids from septage is different from other sludges.

## **SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES**

1. Sludge shall be routinely removed from wastewater treatment facilities and handled according to the permit facility description and sludge conditions of this permit.
2. The permittee shall operate the facility so that there is no sludge discharged to waters of the state.
3. Mechanical treatment plants shall have separate sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove sludge from these storage compartments on the required design schedule is a violation of this permit.

## **SECTION D – SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR CONTRACT HAULER**

1. This section applies to permittees that haul sludge to another treatment facility for disposal or use contract haulers to remove and dispose of sludge.
2. Permittees that use contract haulers are responsible for compliance with all the terms of this permit including final disposal, unless the hauler has a separate permit for sludge or biosolids disposal issued by the Department; or the hauler transports the sludge to another permitted treatment facility.
3. Haulers who land apply septage must obtain a state permit.
4. Testing of sludge, other than total solids content, is not required if sludge is hauled to a municipal wastewater treatment facility or other permitted wastewater treatment facility, unless it is required by the accepting facility.

## **SECTION E – INCINERATION OF SLUDGE**

1. Sludge incineration facilities shall comply with the requirements of 40 CFR 503 Subpart E; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or if the ash is determined to be hazardous with 10 CSR 25.
3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, quantity of sludge incinerated, quantity of ash generated, quantity of ash stored, and ash used or disposal method, quantity, and location. Permittee shall also provide the name of the disposal facility and the applicable permit number.

## **SECTION F – SURFACE DISPOSAL SITES AND SLUDGE LAGOONS**

1. Surface disposal sites of domestic facilities shall comply with the requirements in 40 CFR 503 Subpart C; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
2. Sludge storage lagoons are temporary facilities and are not required to obtain a permit as a solid waste management facility under 10 CSR 80. In order to maintain sludge storage lagoons as storage facilities, accumulated sludge must be removed routinely, but not less than once every two years unless an alternate schedule is approved in the permit. The amount of sludge removed will be dependent on sludge generation and accumulation in the facility. Enough sludge must be removed to maintain adequate storage capacity in the facility.
  - a. In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of sludge on the bottom of the lagoon, upon prior approval of the Department; or
  - b. Permittee shall close the lagoon in accordance with Section H.

## **SECTION G – LAND APPLICATION**

1. The permittee shall not land apply sludge or biosolids unless land application is authorized in the facility description or the special conditions of the issued NPDES permit.
2. Land application sites within a 20 miles radius of the wastewater treatment facility are authorized under this permit when biosolids are applied for beneficial use in accordance with these standard conditions unless otherwise specified in a site specific permit. If the permittee's land application site is greater than a 20 mile radius of the wastewater treatment facility, approval must be granted from the Department.
3. Land application shall not adversely affect a threatened or endangered species or its designated critical habitat.
4. Biosolids shall not be applied unless authorized in this permit or exempted under 10 CSR 20, Chapter 6.
  - a. This permit does not authorize the land application of domestic sludge except for when sludge meets the definition of biosolids.
  - b. This permit authorizes "Class A or B" biosolids derived from domestic wastewater and/or process water sludge to be land applied onto grass land, crop land, timber or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.
5. Public Contact Sites:

Permittees who wish to apply Class A biosolids to public contact sites must obtain approval from the Department after two years of proper operation with acceptable testing documentation that shows the biosolids meet Class A criteria. A shorter length of testing will be allowed with prior approval from the Department. Authorization for land applications must be provided in the special conditions section of this permit or in a separate site specific permit.

  - a. After Class B biosolids have been land applied, public access must be restricted for 12 months.
  - b. Class B biosolids are only land applied to root crops, home gardens or vegetable crops whose edible parts will not be for human consumption.
6. Agricultural and Silvicultural Sites:

Septage – Based on Water Quality guide 422 (WQ422) published by the University of Missouri

  - a. Haulers that land apply septage must obtain a state permit
  - b. Do not apply more than 30,000 gallons of septage per acre per year.
  - c. Septage tanks are designed to retain sludge for one to three years which will allow for a larger reduction in pathogens and vectors, as compared to other mechanical type treatment facilities.
  - d. To meet Class B sludge requirements, maintain septage at 12 pH for at least thirty (30) minutes before land application. 50 pounds of hydrated lime shall be added to each 1,000 gallons of septage in order to meet pathogen and vector stabilization for septage biosolids applied to crops, pastures or timberland.
  - e. Lime is to be added to the pump truck and not directly to the septic tanks, as lime would harm the beneficial bacteria of the septic tank.

Biosolids - Based on Water Quality guide 423, 424, and 425 (WQ423, WQ424, WQ425) published by the University of Missouri;

- a. Biosolids shall be monitored to determine the quality for regulated pollutants
- b. The number of samples taken is directly related to the amount of sludge produced by the facility (See Section I of these Standard Conditions). Report as dry weight unless otherwise specified in the site specific permit. Samples should be taken only during land application periods. When necessary, it is permissible to mix biosolids with lower concentrations of biosolids as well as other suitable Department approved material to reach the maximum concentration of pollutants allowed.
- c. Table 1 gives the maximum concentration allowable to protect water quality standards

**TABLE 1**

| Biosolids ceiling concentration <sup>1</sup> |                                    |
|----------------------------------------------|------------------------------------|
| Pollutant                                    | Milligrams per kilogram dry weight |
| Arsenic                                      | 75                                 |
| Cadmium                                      | 85                                 |
| Copper                                       | 4,300                              |
| Lead                                         | 840                                |
| Mercury                                      | 57                                 |
| Molybdenum                                   | 75                                 |
| Nickel                                       | 420                                |
| Selenium                                     | 100                                |
| Zinc                                         | 7,500                              |

<sup>1</sup> Land application is not allowed if the sludge concentration exceeds the maximum limits for any of these pollutants

- d. The low metal concentration biosolids has reduced requirements because of its higher quality and can safely be applied for 100 years or longer at typical agronomic loading rates. (See Table 2)

**TABLE 2**

| Biosolids Low Metal Concentration <sup>1</sup> |                                    |
|------------------------------------------------|------------------------------------|
| Pollutant                                      | Milligrams per kilogram dry weight |
| Arsenic                                        | 41                                 |
| Cadmium                                        | 39                                 |
| Copper                                         | 1,500                              |
| Lead                                           | 300                                |
| Mercury                                        | 17                                 |
| Nickel                                         | 420                                |
| Selenium                                       | 36                                 |
| Zinc                                           | 2,800                              |

<sup>1</sup> You may apply low metal biosolids without tracking cumulative metal limits, provided the cumulative application of biosolids does not exceed 500 dry tons per acre.

- e. Each pollutant in Table 3 has an annual and a total cumulative loading limit, based on the allowable pounds per acre for various soil categories.

**TABLE 3**

| Pollutant | CEC 15+ |                    | CEC 5 to 15 |                    | CEC 0 to 5 |                    |
|-----------|---------|--------------------|-------------|--------------------|------------|--------------------|
|           | Annual  | Total <sup>1</sup> | Annual      | Total <sup>1</sup> | Annual     | Total <sup>1</sup> |
| Arsenic   | 1.8     | 36.0               | 1.8         | 36.0               | 1.8        | 36.0               |
| Cadmium   | 1.7     | 35.0               | 0.9         | 9.0                | 0.4        | 4.5                |
| Copper    | 66.0    | 1,335.0            | 25.0        | 250.0              | 12.0       | 125.0              |
| Lead      | 13.0    | 267.0              | 13.0        | 267.0              | 13.0       | 133.0              |
| Mercury   | 0.7     | 15.0               | 0.7         | 15.0               | 0.7        | 15.0               |
| Nickel    | 19.0    | 347.0              | 19.0        | 250.0              | 12.0       | 125.0              |
| Selenium  | 4.5     | 89.0               | 4.5         | 44.0               | 1.6        | 16.0               |
| Zinc      | 124.0   | 2,492.0            | 50.0        | 500.0              | 25.0       | 250.0              |

<sup>1</sup> Total cumulative loading limits for soils with equal or greater than 6.0 pH (salt based test) or 6.5 pH (water based test)

**TABLE 4** - Guidelines for land application of other trace substances <sup>1</sup>

| Cumulative Loading |                               |
|--------------------|-------------------------------|
| Pollutant          | Pounds per acre               |
| Aluminum           | 4,000 <sup>2</sup>            |
| Beryllium          | 100                           |
| Cobalt             | 50                            |
| Fluoride           | 800                           |
| Manganese          | 500                           |
| Silver             | 200                           |
| Tin                | 1,000                         |
| Dioxin             | (10 ppt in soil) <sup>3</sup> |
| Other              | <sup>4</sup>                  |

<sup>1</sup> Design of land treatment systems for Industrial Waste, 1979. Michael Ray Overcash, North Carolina State University and Land Treatment of Municipal Wastewater, EPA 1981.)

<sup>2</sup> This applies for a soil with a pH between 6.0 and 7.0 (salt based test) or a pH between 6.5 to 7.5 (water based test). Case-by-case review is required for higher pH soils.

<sup>3</sup> Total Dioxin Toxicity Equivalents (TEQ) in soils, based on a risk assessment under 40 CFR 744, May 1998.

<sup>4</sup> Case by case review. Concentrations in sludge should not exceed the 95<sup>th</sup> percentile of the National Sewage Sludge Survey, EPA, January 2009.

Best Management Practices – Based on Water Quality guide 426 (WQ426) published by the University of Missouri

- a. Use best management practices when applying biosolids.
- b. Biosolids cannot discharge from the land application site
- c. Biosolid application is subject to the Missouri Department of Agriculture State Milk Board concerning grazing restrictions of lactating dairy cattle.
- d. Biosolid application must be in accordance with section 4 of the Endangered Species Act.
- e. Do not apply more than the agronomic rate of nitrogen needed.
- f. The applicator must document the Plant Available Nitrogen (PAN) loadings, available nitrogen in the soil, and crop removal when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) When biosolids are land applied at an application rate greater than two dry tons per acre per year.
  - i. PAN can be determined as follows and is in accordance with WQ426  

$$(\text{Nitrate} + \text{nitrite nitrogen}) + (\text{organic nitrogen} \times 0.2) + (\text{ammonia nitrogen} \times \text{volatilization factor}^1).$$

<sup>1</sup> Volatilization factor is 0.7 for surface application and 1 for subsurface application.
- g. Buffer zones are as follows:
  - i. 300 feet of a water supply well, sinkhole, lake, pond, water supply reservoir or water supply intake in a stream;
  - ii. 300 feet of a losing stream, no discharge stream, stream stretches designated for whole body contact recreation, wild and scenic rivers, Ozark National Scenic Riverways or outstanding state resource waters as listed in the Water Quality Standards, 10 CSR 20-7.031;
  - iii. 150 feet if dwellings;
  - iv. 100 feet of wetlands or permanent flowing streams;
  - v. 50 feet of a property line or other waters of the state, including intermittent flowing streams.
- h. Slope limitation for application sites are as follows;
  - i. A slope 0 to 6 percent has no rate limitation
  - ii. Applied to a slope 7 to 12 percent, the applicator may apply biosolids when soil conservation practices are used to meet the minimum erosion levels
  - iii. Slopes > 12 percent, apply biosolids only when grass is vegetated and maintained with at least 80 percent ground cover at a rate of two dry tons per acre per year or less.
- i. No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
- j. Do not apply biosolids to sites with soil that is snow covered, frozen or saturated with liquid without prior approval by the Department.
- k. Biosolids / sludge applicators must keep detailed records up to five years.

## SECTION H – CLOSURE REQUIREMENTS

1. This section applies to all wastewater facilities (mechanical, industrial, and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids. Mechanical plants, sludge lagoons, ash ponds and other storage structures must obtain approval of a closure plan from the Department. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 – 6. 010 and 10 CSR 20 – 6.015.
3. Residuals that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
  - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
  - b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
  - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre.
    - i. PAN can be determined as follows:
$$(\text{Nitrate} + \text{nitrite nitrogen}) + (\text{organic nitrogen} \times 0.2) + (\text{ammonia nitrogen} \times \text{volatilization factor}^1).$$

<sup>1</sup> Volatilization factor is 0.7 for surface application and 1 for subsurface application.
4. When closing a domestic wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered “septage” under the similar treatment works definition. See Section B of these standard conditions. Under the septage category, residuals may be left in place as follows:
  - a. Testing for metals or fecal coliform is not required
  - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
  - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above. Allowable PAN loading is 300 pounds/acre.
5. Residuals left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berm shall be demolished, and the site shall be graded and contain  $\geq 70\%$  vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
6. Lagoons and/or earthen structure and/or ash pond closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200
7. When closing a mechanical wastewater and/or industrial process wastewater plant; all sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
  - a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain  $\geq 70\%$  vegetative density over 100% of the site, so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
  - b. Per 10 CSR 20-6.015(4)(B)6, Hazardous Waste shall not be land applied or disposed during industrial and mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations under 10 CSR 25.
  - c. After demolition of the mechanical plant / industrial plant, the site must only contain clean fill defined in RSMo 260.200 (5) as uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinderblocks, brick, minimal amounts of wood and metal, and inert solids as approved by rule or policy of the Department for fill or other beneficial use. Other solid wastes must be removed.
8. If sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or H, a landfill permit or solid waste disposal permit must be obtained if the permittee chooses to seek authorization for on-site sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.

## SECTION I – MONITORING FREQUENCY

- At a minimum, sludge or biosolids shall be tested for volume and percent total solids on a frequency that will accurately represent sludge quantities produced and disposed. Please see the table below.

**TABLE 5**

| Design Sludge Production (dry tons per year) | Monitoring Frequency (See Notes 1, 2, and 3) |                           |                           |                                           |
|----------------------------------------------|----------------------------------------------|---------------------------|---------------------------|-------------------------------------------|
|                                              | Metals, Pathogens and Vectors                | Nitrogen TKN <sup>1</sup> | Nitrogen PAN <sup>2</sup> | Priority Pollutants and TCLP <sup>3</sup> |
| 0 to 100                                     | 1 per year                                   | 1 per year                | 1 per month               | 1 per year                                |
| 101 to 200                                   | biannual                                     | biannual                  | 1 per month               | 1 per year                                |
| 201 to 1,000                                 | quarterly                                    | quarterly                 | 1 per month               | 1 per year                                |
| 1,001 to 10,000                              | 1 per month                                  | 1 per month               | 1 per week                | -- <sup>4</sup>                           |
| 10,001 +                                     | 1 per week                                   | 1 per week                | 1 per day                 | -- <sup>4</sup>                           |

<sup>1</sup> Test total Kjeldahl nitrogen, if biosolids application is 2 dry tons per acre per year or less.

<sup>2</sup> Calculate plant available nitrogen (PAN) when either of the following occurs: 1) when biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.

<sup>3</sup> Priority pollutants (40 CFR 122.21, Appendix D, Tables II and III) and toxicity characteristic leaching procedure (40 CFR 261.24) is required only for permit holders that must have a pre-treatment program.

<sup>4</sup> One sample for each 1,000 dry tons of sludge.

Note 1: Total solids: A grab sample of sludge shall be tested one per day during land application periods for percent total solids.

This data shall be used to calculate the dry tons of sludge applied per acre.

Note 2: Total Phosphorus: Total phosphorus and total potassium shall be tested at the same monitoring frequency as metals.

Note 3: Table 5 is not applicable for incineration and permit holders that landfill their sludge.

- If you own a wastewater treatment lagoon or sludge lagoon that is cleaned out once a year or less, you may choose to sample only when the sludge is removed or the lagoon is closed. Test one composite sample for each 100 dry tons of sludge or biosolids removed from the lagoon during the year within the lagoon at closing. Composite sample must represent various areas at one-foot depth.
- Additional testing may be required in the special conditions or other sections of the permit. Permittees receiving industrial wastewater may be required to conduct additional testing upon request from the Department.
- At this time, the Department recommends monitoring requirements shall be performed in accordance with, "POTW Sludge Sampling and Analysis Guidance Document," United States Environmental Protection Agency, August 1989, and the subsequent revisions.

## SECTION J – RECORD KEEPING AND REPORTING REQUIREMENTS

- The permittee shall maintain records on file at the facility for at least five years for the items listed in these standard conditions and any additional items in the Special Conditions section of this permit. This shall include dates when the sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
- Reporting period
  - By January 28<sup>th</sup> of each year, an annual report shall be submitted for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and sludge or biosolids disposal facilities.
  - Permittees with wastewater treatment lagoons shall submit the above annual report only when sludge or biosolids are removed from the lagoon during the report period or when the lagoon is closed.
- Report Forms. The annual report shall be submitted on report forms provided by the Department or equivalent forms approved by the Department.
- Reports shall be submitted as follows:

Major facilities (those serving 10,000 persons or 1 million gallons per day) shall report to both the Department and EPA. Other facilities need to report only to the Department. Reports shall be submitted to the addresses listed as follows:

DNR regional office listed in your permit  
(see cover letter of permit)  
ATTN: Sludge Coordinator

EPA Region VII  
Water Compliance Branch (WACM)  
Sludge Coordinator  
11201 Renner Blvd.  
Lenexa, KS 66219

5. Annual report contents. The annual report shall include the following:
- a. Sludge and biosolids testing performed. Include a copy or summary of all test results, even if not required by the permit.
  - b. Sludge or biosolids quantity shall be reported as dry tons for quantity generated by the wastewater treatment facility, the quantity stored on site at the end of the year, and the quantity used or disposed.
  - c. Gallons and % solids data used to calculate the dry ton amounts.
  - d. Description of any unusual operating conditions.
  - e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
    - i. This must include the name, address for the hauler and sludge facility. If hauled to a municipal wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name of that facility.
    - ii. Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.
  - f. Contract Hauler Activities:

If contract hauler, provide a copy of a signed contract from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge or biosolids use permit.
  - g. Land Application Sites:
    - i. Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as a legal description for nearest ¼, ¼, Section, Township, Range, and county, or UTM coordinates. The facility shall report PAN when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.
    - ii. If the "Low Metals" criteria are exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative pollutant loading which has been reached at each site.
    - iii. Report the method used for compliance with pathogen and vector attraction requirements.
    - iv. Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.



JUL 18 2016



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

Water Protection Program

**FORM B2 – APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE  
PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS  
PER DAY**

FACILITY NAME

Shoal Creek Neosho MO.

PERMIT NO.

MO 0104906

COUNTY

Newton

**APPLICATION OVERVIEW**

Form B2 has been developed in a modular format and consists of Parts A, B and C and a Supplemental Application Information (Parts D, E, F and G) packet. All applicants must complete Parts A, B and C. Some applicants must also complete parts of the Supplemental Application Information packet. The following items explain which parts of Form B2 you must complete. Submittal of an incomplete application may result in the application being returned.

**BASIC APPLICATION INFORMATION**

- A. Basic Application Information for all Applicants. All applicants must complete Part A.
- B. Additional Application Information for all Applicants. All applicants must complete Part B.
- C. Certification. All applicants must complete Part C.

**SUPPLEMENTAL APPLICATION INFORMATION**

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface water of the United States and meets one or more of the following criteria must complete *Part D - Expanded Effluent Testing Data*:
  - 1. Has a design flow rate greater than or equal to 1 million gallons per day.
  - 2. Is required to have or currently has a pretreatment program.
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete *Part E - Toxicity Testing Data*:
  - 1. Has a design flow rate greater than or equal to 1 million gallons per day.
  - 2. Is required to have or currently has a pretreatment program.
  - 3. Is otherwise required by the permitting authority to provide the information.
- F. Industrial User Discharges and Resource Conservation and Recovery Act / Comprehensive Environmental Response, Compensation and Liability Act Wastes. A treatment works that accepts process wastewater from any significant industrial users, also known as SIUs, or receives a Resource Conservation and Recovery Act or CERCLA wastes must complete *Part F - Industrial User Discharges and Resource Conservation and Recovery Act /CERCLA Wastes*.  
SIUs are defined as:
  - 1. All Categorical Industrial Users, or CIUs, subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations 403.6 and 40 Code of Federal Regulations 403.6 and 40 CFR Chapter 1, Subchapter N.
  - 2. Any other industrial user that meets one or more of the following:
    - i. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions).
    - ii. Contributes a process waste stream that makes up five percent or more of the average dry weather hydraulic or organic capacity of the treatment plant.
    - iii. Is designated as an SIU by the control authority.
    - iv. Is otherwise required by the permitting authority to provide the information.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete *Part G - Combined Sewer Systems*.

**ALL APPLICANTS MUST COMPLETE PARTS A, B and C**



RECEIVED

JUL 18 2016

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                 |  |                                                                                                     |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|-------------------|
|  <b>MISSOURI DEPARTMENT OF NATURAL RESOURCES</b><br>WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH<br><b>FORM B2 – APPLICATION FOR AN OPERATING PERMIT FOR FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS PER DAY</b>                                                                                        |  | <b>Water Protection Program</b>                 |  | <b>FOR AGENCY USE ONLY</b><br>CHECK NUMBER<br>DATE RECEIVED <u>7/18/16</u> FEE SUBMITTED <u>08B</u> |                   |
| <b>PART A – BASIC APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                 |  |                                                                                                     |                   |
| <b>1. THIS APPLICATION IS FOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                 |  |                                                                                                     |                   |
| <input type="checkbox"/> An operating permit for a new or unpermitted facility. Construction Permit # _____<br>(Include completed Antidegradation Review or request to conduct an Antidegradation Review, see instructions)<br><input checked="" type="checkbox"/> An operating permit renewal: Permit #MO- <u>0104906</u> Expiration Date <u>12/31/2016</u><br><input type="checkbox"/> An operating permit modification: Permit #MO- _____ Reason: _____ |  |                                                 |  |                                                                                                     |                   |
| <b>1.1</b> Is the appropriate fee included with the application (see instructions for appropriate fee)? <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                           |  |                                                 |  |                                                                                                     |                   |
| <b>2. FACILITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                 |  |                                                                                                     |                   |
| NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                 |  | TELEPHONE NUMBER WITH AREA CODE<br>417-451-8080                                                     |                   |
| ADDRESS (PHYSICAL)<br>2201 OLD scenic DR                                                                                                                                                                                                                                                                                                                                                                                                                   |  | CITY<br>Neosho                                  |  | STATE<br>MO                                                                                         | ZIP CODE<br>64850 |
| <b>2.1</b> LEGAL DESCRIPTION (Facility Site): NE ¼, NE ¼, ¼, Sec. 13, T 25n, R 32W                                                                                                                                                                                                                                                                                                                                                                         |  |                                                 |  |                                                                                                     | COUNTY<br>Newton  |
| <b>2.2</b> UTM Coordinates Easting (X): <u>377635</u> Northing (Y): <u>4083914</u><br>For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)                                                                                                                                                                                                                                                               |  |                                                 |  |                                                                                                     |                   |
| <b>2.3</b> Name of receiving stream: Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                 |  |                                                                                                     |                   |
| <b>2.4</b> Number of Outfalls: 1 wastewater outfalls, 1 stormwater outfalls, 0 instream monitoring sites                                                                                                                                                                                                                                                                                                                                                   |  |                                                 |  |                                                                                                     |                   |
| <b>3. OWNER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                 |  |                                                                                                     |                   |
| NAME<br>City of Neosho                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | EMAIL ADDRESS                                   |  | TELEPHONE NUMBER WITH AREA CODE<br>417-451-8080                                                     |                   |
| ADDRESS<br>203 East Main St                                                                                                                                                                                                                                                                                                                                                                                                                                |  | CITY<br>Neosho                                  |  | STATE<br>MO                                                                                         | ZIP CODE<br>64850 |
| <b>3.1</b> Request review of draft permit prior to Public Notice? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                      |  |                                                 |  |                                                                                                     |                   |
| <b>3.2</b> Are you a Publically Owned Treatment Works (POTW)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, is the Financial Questionnaire attached? <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                             |  |                                                 |  |                                                                                                     |                   |
| <b>3.3</b> Are you a Privately Owned Treatment Facility? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                               |  |                                                 |  |                                                                                                     |                   |
| <b>3.4</b> Are you a Privately Owned Treatment Facility regulated by the Public Service Commission (PSC)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                                                                                                                                                                                                                                              |  |                                                 |  |                                                                                                     |                   |
| <b>4. CONTINUING AUTHORITY: Permanent organization which will serve as the continuing authority for the operation, maintenance and modernization of the facility.</b>                                                                                                                                                                                                                                                                                      |  |                                                 |  |                                                                                                     |                   |
| NAME<br>City of Neosho                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | EMAIL ADDRESS<br>kbrady@alliancewater.com       |  | TELEPHONE NUMBER WITH AREA CODE<br>417-451-8080                                                     |                   |
| ADDRESS<br>203 E Main                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | CITY<br>Neosho                                  |  | STATE<br>MO                                                                                         | ZIP CODE<br>64850 |
| If the Continuing Authority is different than the Owner, include a copy of the contract agreement between the two parties and a description of the responsibilities of both parties within the agreement.                                                                                                                                                                                                                                                  |  |                                                 |  |                                                                                                     |                   |
| <b>5. OPERATOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                 |  |                                                                                                     |                   |
| NAME<br>Tim E Parvin                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | TITLE<br>Operator                               |  | CERTIFICATE NUMBER (IF APPLICABLE)<br>9806                                                          |                   |
| EMAIL ADDRESS<br>Shoalcreek@alliancewater.com                                                                                                                                                                                                                                                                                                                                                                                                              |  | TELEPHONE NUMBER WITH AREA CODE<br>417-451-8080 |  |                                                                                                     |                   |
| <b>6. FACILITY CONTACT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                 |  |                                                                                                     |                   |
| NAME<br>Ken Brady                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | TITLE<br>Local Manager                          |  |                                                                                                     |                   |
| EMAIL ADDRESS<br>kbrady@alliancewater.com                                                                                                                                                                                                                                                                                                                                                                                                                  |  | TELEPHONE NUMBER WITH AREA CODE<br>417-451-8080 |  |                                                                                                     |                   |
| ADDRESS<br>15318 Kentucky Rd                                                                                                                                                                                                                                                                                                                                                                                                                               |  | CITY<br>Neosho                                  |  | STATE<br>MO                                                                                         | ZIP CODE<br>64850 |

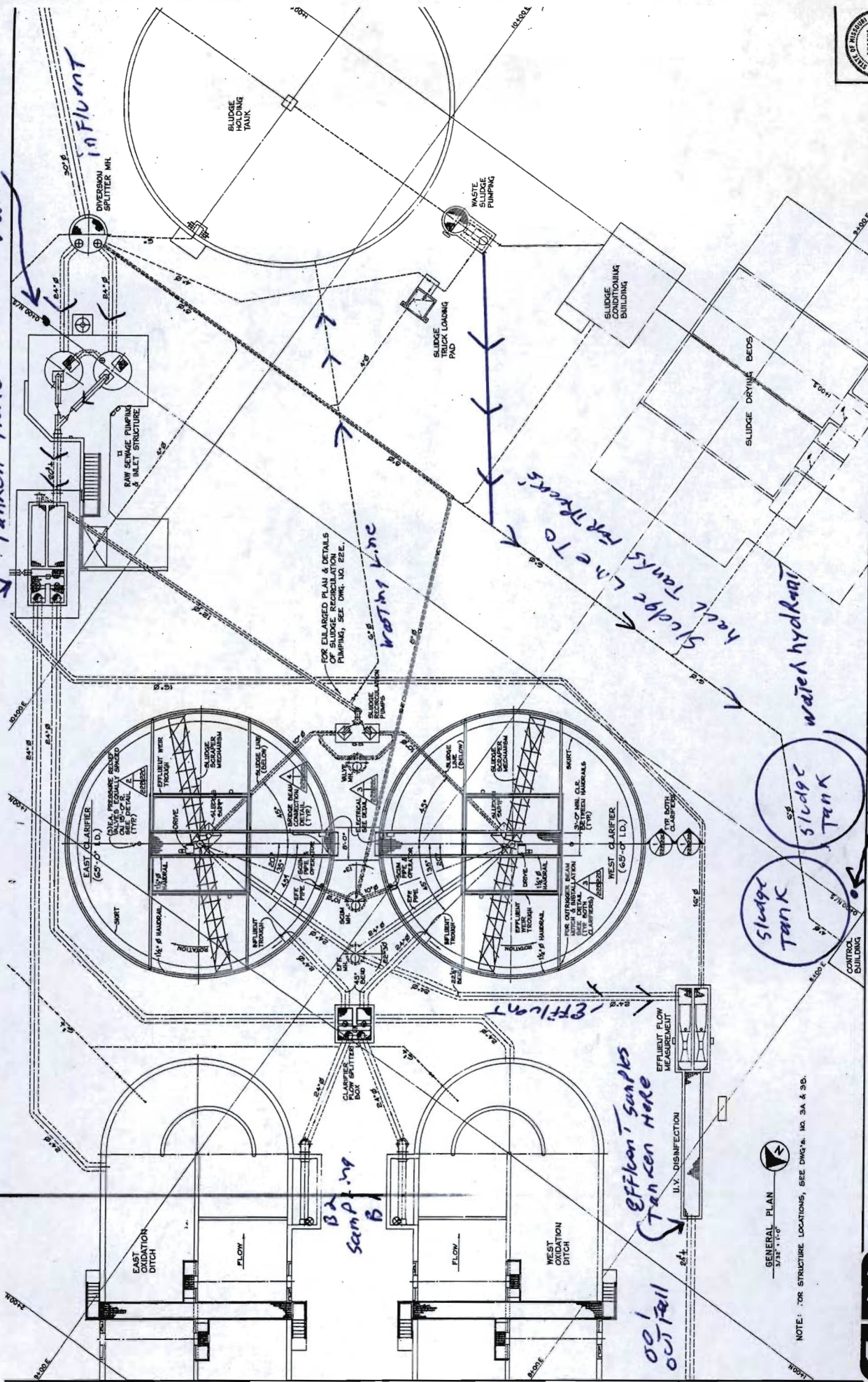






*Influent - Samples Taken Here*

*water hydrant*



FOR ENLARGED PLAN & DETAILS OF STRUCTURES AND EQUIPMENT, SEE OWN. NO. 22E.

GENERAL PLAN  
MAY 1970

NOTE: FOR STRUCTURE LOCATIONS, SEE DWG'S NO. 3A & 3B.



22B

CLARIFIERS - GENERAL PLAN  
WASTEWATER TREATMENT PLANT  
NEOSHO, MISSOURI

DATE: MAY 1970  
BY: GRS  
APP. BY: ATJ  
12-11-70 1984

ALLGEIER, MARTIN & ASSOCIATES, INC.  
CONSULTING ENGINEERS & SURVEYORS  
JOP., IN. MISSOURI

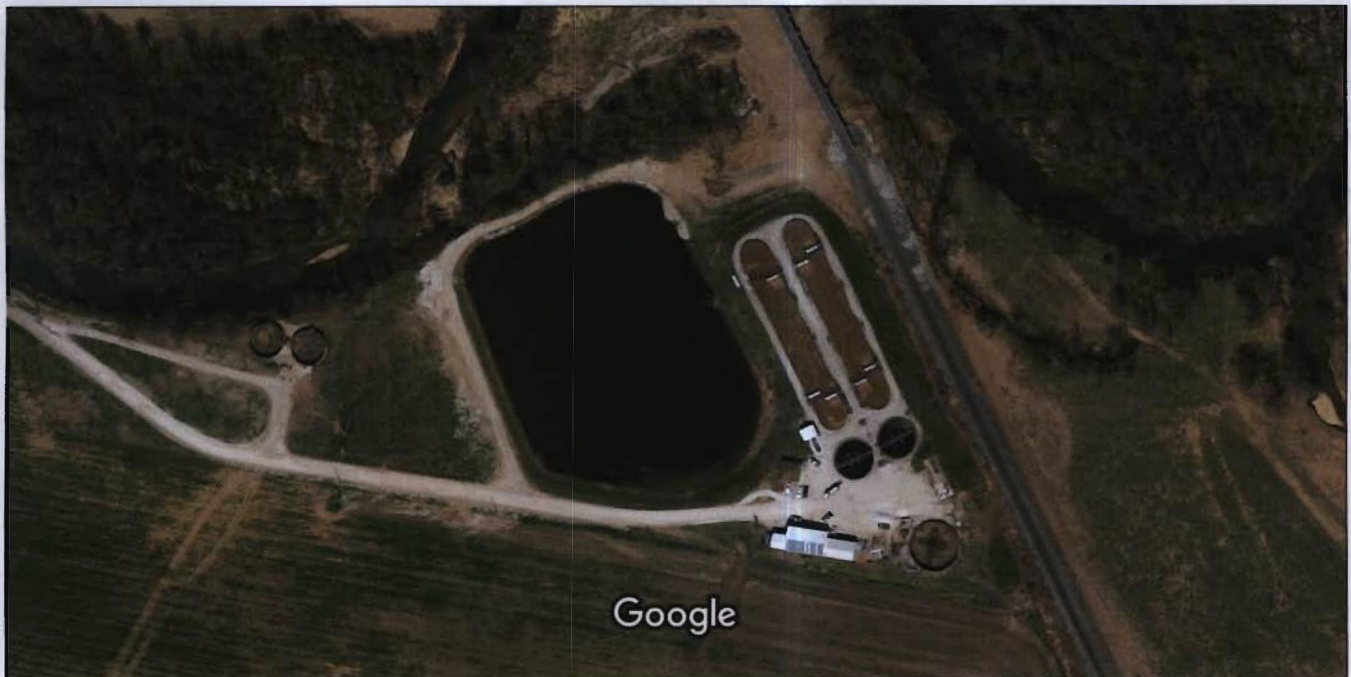




|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PERMIT NO.<br>MO- 0104906                  | OUTFALL NO.<br>001                     |
| <b>PART A – BASIC APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                                        |
| <b>7. FACILITY INFORMATION (continued)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |                                        |
| <p><b>7.2 Topographic Map.</b> Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information.</p> <ul style="list-style-type: none"> <li>a. The area surrounding the treatment plant, including all unit processes.</li> <li>b. The location of the downstream landowner(s). (See Item 10.)</li> <li>c. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.</li> <li>d. The actual point of discharge.</li> <li>e. Wells, springs, other surface water bodies and drinking water wells that are: 1) within ¼ mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.</li> <li>f. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.</li> <li>g. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, or disposed.</li> </ul> |                                            |                                        |
| <p><b>7.3</b> Facility SIC Code:<br/><u>4952</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>Discharge SIC Code:<br/><u>4952</u></p> |                                        |
| <p><b>7.4</b> Number of people presently connected or population equivalent (P.E.): <u>12,000</u>      Design P.E. <u>30,000</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                                        |
| <p><b>7.5</b> Connections to the facility:</p> <p>Number of units presently connected:</p> <p>Homes <u>4800</u>    Trailers _____    Apartments _____    Other (including industrial) <u>2</u></p> <p>Number of Commercial Establishments: _____</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                                        |
| <p><b>7.6</b> Design Flow<br/>3.0 MGD</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Actual Flow<br/>1.8 MGD</p>             |                                        |
| <p><b>7.7</b> Will discharge be continuous through the year?      Yes <input checked="" type="checkbox"/>      No <input type="checkbox"/><br/> Discharge will occur during the following months:      How many days of the week will discharge occur?<br/> <div style="text-align: right;">January Thru Dec    Seven days a week.</div></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                        |
| <p><b>7.8</b> Is industrial wastewater discharged to the facility?      Yes <input checked="" type="checkbox"/>      No <input type="checkbox"/><br/> If yes, describe the number and types of industries that discharge to your facility. Attach sheets as necessary<br/> Rembrandt Foods</p> <p>Refer to the APPLICATION OVERVIEW to determine whether additional information is needed for Part F.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                        |
| <p><b>7.9</b> Does the facility accept or process leachate from landfills?:      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                                        |
| <p><b>7.10</b> Is wastewater land applied?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/><br/> If yes, is Form I attached?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |                                        |
| <p><b>7.11</b> Does the facility discharge to a losing stream or sinkhole?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                        |
| <p><b>7.12</b> Has a wasteload allocation study been completed for this facility?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                        |
| <b>8. LABORATORY CONTROL INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                        |
| LABORATORY WORK CONDUCTED BY PLANT PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                        |
| Lab work conducted outside of plant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes <input checked="" type="checkbox"/>    | No <input type="checkbox"/>            |
| Push-button or visual methods for simple test such as pH, settleable solids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes <input checked="" type="checkbox"/>    | No <input type="checkbox"/>            |
| Additional procedures such as Dissolved Oxygen, Chemical Oxygen Demand, Biological Oxygen Demand, titrations, solids, volatile content.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Yes <input checked="" type="checkbox"/>    | No <input type="checkbox"/>            |
| More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes <input checked="" type="checkbox"/>    | No <input checked="" type="checkbox"/> |
| Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes <input checked="" type="checkbox"/>    | No <input checked="" type="checkbox"/> |

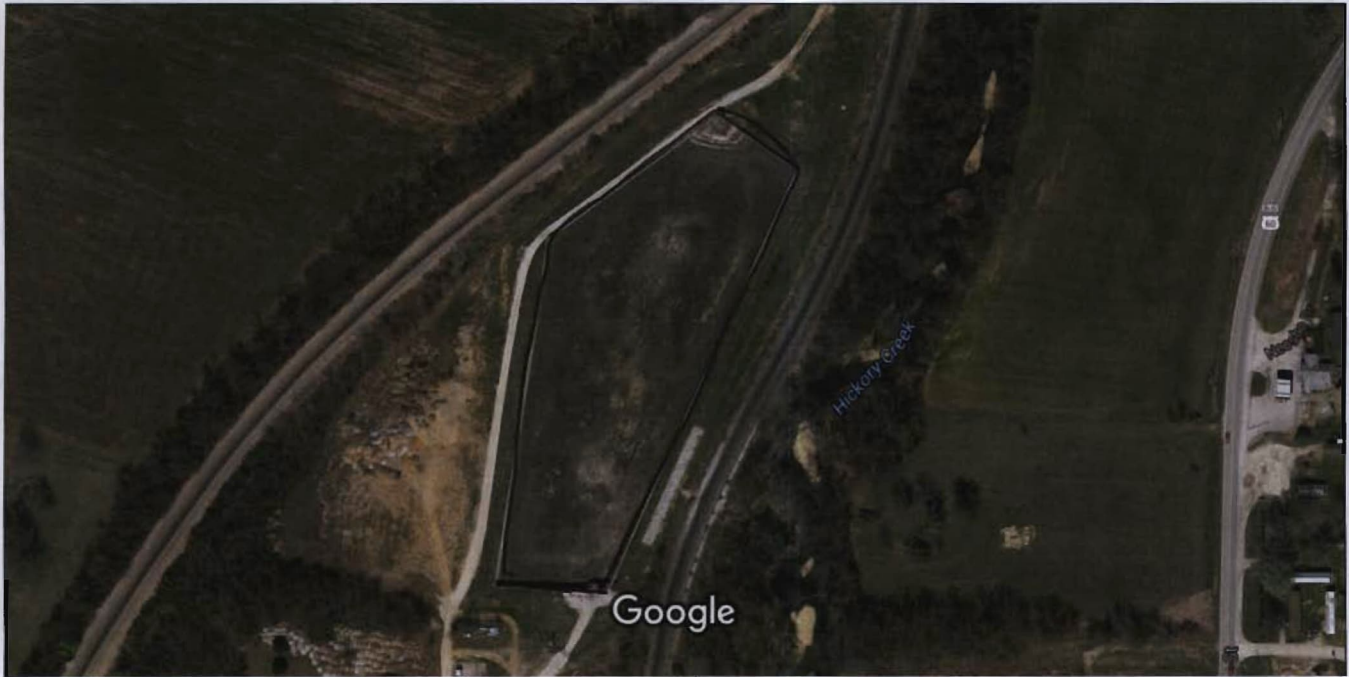


Google Maps



Imagery ©2016 Google, Map data ©2016 Google 100 ft

Google Maps



EQ BASIN

Imagery ©2016 Google, Map data ©2016 Google 100 ft



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PERMIT NO.<br>MO- 0104906       | OUTFALL NO.<br>001      |
| <b>PART A – BASIC APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                         |
| <b>9. SLUDGE HANDLING, USE AND DISPOSAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                         |
| 9.1 Is the sludge a hazardous waste as defined by 10 CSR 25?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                         |
| 9.2 Sludge production (Including sludge received from others): Design Dry Tons/Year 630      Actual Dry Tons/Year 334.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                         |
| 9.3 Sludge storage provided: <u>yes</u> Cubic feet; <u>1280</u> Days of storage; <u>45</u> Average percent solids of sludge;<br><br><input type="checkbox"/> No sludge storage is provided. <input type="checkbox"/> Sludge is stored in lagoon.                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                         |
| 9.4 Type of storage: <div style="display: inline-block; width: 45%;"> <input checked="" type="checkbox"/> Holding Tank<br/> <input type="checkbox"/> Basin<br/> <input type="checkbox"/> Concrete Pad </div> <div style="display: inline-block; width: 45%;"> <input type="checkbox"/> Building<br/> <input type="checkbox"/> Lagoon<br/> <input type="checkbox"/> Other (Describe) _____ </div>                                                                                                                                                                                                                                                                |                                 |                         |
| 9.5 Sludge Treatment: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="width: 22%;"> <input type="checkbox"/> Anaerobic Digester<br/> <input checked="" type="checkbox"/> Aerobic Digester </div> <div style="width: 22%;"> <input checked="" type="checkbox"/> Storage Tank<br/> <input type="checkbox"/> Air or Heat Drying </div> <div style="width: 22%;"> <input type="checkbox"/> Lime Stabilization<br/> <input type="checkbox"/> Composting </div> <div style="width: 22%;"> <input type="checkbox"/> Lagoon<br/> <input type="checkbox"/> Other (Attach Description) </div> </div>                            |                                 |                         |
| 9.6 Sludge use or disposal: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="width: 22%;"> <input checked="" type="checkbox"/> Land Application<br/> <input type="checkbox"/> Surface Disposal (Sludge Disposal Lagoon, Sludge Held For More Than Two Years)<br/> <input type="checkbox"/> Other (Attach Explanation Sheet) _____ </div> <div style="width: 22%;"> <input type="checkbox"/> Contract Hauler<br/> <input type="checkbox"/> Hauled to Another Treatment Facility </div> <div style="width: 22%;"> <input type="checkbox"/> Solid Waste Landfill<br/> <input type="checkbox"/> Incineration </div> </div> |                                 |                         |
| 9.7 Person responsible for hauling sludge to disposal facility:<br><input type="checkbox"/> By Applicant <input type="checkbox"/> By Others (complete below)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                         |
| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | EMAIL ADDRESS           |
| ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CITY                            | STATE    ZIP CODE       |
| CONTACT PERSON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TELEPHONE NUMBER WITH AREA CODE | PERMIT NO.<br>MO-       |
| 9.8 Sludge use or disposal facility:<br><input type="checkbox"/> By Applicant <input type="checkbox"/> By Others (Complete below)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                         |
| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | EMAIL ADDRESS           |
| ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CITY<br>neosho                  | STATE<br>MO    ZIP CODE |
| CONTACT PERSON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TELEPHONE NUMBER WITH AREA CODE | PERMIT NO.<br>MO-       |
| 9.9 Does the sludge or biosolids disposal comply with Federal Sludge Regulation 40 CFR 503?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    (Explain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                         |
| <b>END OF PART A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                         |



|                              |                           |                    |
|------------------------------|---------------------------|--------------------|
| FACILITY NAME<br>Shoal Creek | PERMIT NO.<br>MO- 0104906 | OUTFALL NO.<br>001 |
|------------------------------|---------------------------|--------------------|

**PART B – ADDITIONAL APPLICATION INFORMATION**

**10. COLLECTION SYSTEM**

**10.1** Length of sanitary sewer collection system in miles  
108

**10.2** Does significant infiltration occur in the collection system?    ☒ Yes    ☐ No  
 If yes, briefly explain any steps underway or planned to minimize inflow and infiltration:  
 Taking Bids on lining certain areas deemed necessary by our collection Supervisor that cleans and cameras the city mains.

**11. BYPASSING**

Does any bypassing occur anywhere in the collection system or at the treatment facility?    Yes ☒    No ☐  
 If yes, explain:  
*Certain man holes run over in the places where we have not made improvements.*

**12. OPERATION AND MAINTENANCE PERFORMED BY CONTRACTOR(S)**

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of the contractor?  
 Yes ☒    No ☐  
 If Yes, list the name, address, telephone number and status of each contractor and describe the contractor's responsibilities.  
 (Attach additional pages if necessary.)

NAME  
 Alliance Water Resources

MAILING ADDRESS  
 15318 Kentucky Rd. Neosho, Mo 64850

|                                                 |                                           |
|-------------------------------------------------|-------------------------------------------|
| TELEPHONE NUMBER WITH AREA CODE<br>417-451-8080 | EMAIL ADDRESS<br>kbrady@alliancewater.com |
|-------------------------------------------------|-------------------------------------------|

RESPONSIBILITIES OF CONTRACTOR  
 All operations and maintenance

**13. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION**

Provide information about any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses for each.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                           |                         |                    |                   |        |                   |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------|-------------------------|--------------------|-------------------|--------|-------------------|--------------|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | PERMIT NO.<br>MO- 0104906 |                         | OUTFALL NO.<br>001 |                   |        |                   |              |
| <b>PART B – ADDITIONAL APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |                           |                         |                    |                   |        |                   |              |
| <b>14. EFFLUENT TESTING DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                           |                         |                    |                   |        |                   |              |
| Applicants must provide effluent testing data for the following parameters. Provide the indicated effluent data <b>for each outfall through which effluent is discharged</b> . Do not include information of combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least <b>three samples</b> and must be no more than four and one-half years apart. |                         |                           |                         |                    |                   |        |                   |              |
| Outfall Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                           |                         |                    |                   |        |                   |              |
| PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MAXIMUM DAILY VALUE     |                           | AVERAGE DAILY VALUE     |                    |                   |        |                   |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Value                   | Units                     | Value                   | Units              | Number of Samples |        |                   |              |
| pH (Minimum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6.76 6.67 6.91          | S.U.                      | 6.78                    | S.U.               | 3                 |        |                   |              |
| pH (Maximum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7.68 8.74 7.81          | S.U.                      | 8.07                    | S.U.               | 3                 |        |                   |              |
| Flow Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.0 2.7 2.0             | MGD                       | 2.2                     | MGD                | 3                 |        |                   |              |
| *For pH report a minimum and a maximum daily value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |                           |                         |                    |                   |        |                   |              |
| POLLUTANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MAXIMUM DAILY DISCHARGE |                           | AVERAGE DAILY DISCHARGE |                    | ANALYTICAL METHOD | ML/MDL |                   |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Conc.                   | Units                     | Conc.                   | Units              |                   |        | Number of Samples |              |
| Conventional and Nonconventional Compounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |                           |                         |                    |                   |        |                   |              |
| BIOCHEMICAL OXYGEN DEMAND (Report One)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BOD <sub>5</sub>        |                           | mg/L                    |                    | mg/L              | 3      | SM5210B           | 2.0/63.6     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CBOD <sub>5</sub>       |                           | mg/L                    |                    | mg/L              | NA     | NA                | NA/NA        |
| E. COLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                           | #/100 mL                |                    | #/100 mL          | 3      | SM9223B           | 150.0/235900 |
| TOTAL SUSPENDED SOLIDS (TSS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                           | mg/L                    |                    | mg/L              | 3      | SM2540D           | 21.0/128     |
| AMMONIA (as N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                           | mg/L                    |                    | mg/L              | 3      | EPA350.1          | <.50/177     |
| CHLORINE* (TOTAL RESIDUAL, TRC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                           | mg/L                    |                    | mg/L              | NA     | NA                | NA           |
| DISSOLVED OXYGEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                           | mg/L                    |                    | mg/L              | 3      | SM4500-OG         | 1.21/8.28    |
| OIL and GREASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                           | mg/L                    |                    | mg/L              | 3      | EPA 1664A         | <5.0/.71     |
| OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |                           | mg/L                    |                    | mg/L              | 0      |                   |              |
| *Report only if facility chlorinates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                           |                         |                    |                   |        |                   |              |
| <b>END OF PART B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                           |                         |                    |                   |        |                   |              |

\* See attached



|               |                   |             |
|---------------|-------------------|-------------|
| FACILITY NAME | PERMIT NO.<br>MO- | OUTFALL NO. |
|---------------|-------------------|-------------|

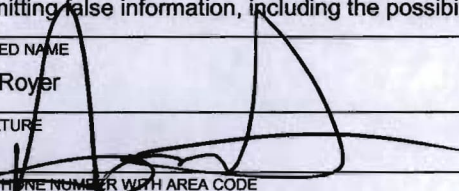
**PART C – CERTIFICATION**

**15. CERTIFICATION**

All applicants must complete the Certification Section. This certification must be signed by an officer of the company or city official. All applicants must complete all applicable sections as explained in the Application Overview. By signing this certification statement, applicants confirm that they have reviewed the entire form and have completed all sections that apply to the facility for which this application is submitted.

**ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

|                                                                                                |                                                                                     |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PRINTED NAME<br>Troy Royer                                                                     | OFFICIAL TITLE (MUST BE AN OFFICER OF THE COMPANY OR CITY OFFICIAL)<br>City Manager |
| SIGNATURE<br> |                                                                                     |
| TELEPHONE NUMBER WITH AREA CODE<br>417-451-8050                                                |                                                                                     |
| DATE SIGNED<br>7-6-2016                                                                        |                                                                                     |

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

Send Completed Form to:

Department of Natural Resources  
 Water Protection Program  
 ATTN: NPDES Permits and Engineering Section  
 P.O. Box 176  
 Jefferson City, MO 65102

**END OF PART C**

**REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH PARTS OF FORM B2 YOU MUST COMPLETE.**

Do not complete the remainder of this application, unless at least one of the following statements applies to your facility:

1. Your facility design flow is equal to or greater than 1,000,000 gallons per day.
2. Your facility is a pretreatment treatment works.
3. Your facility is a combined sewer system.

Submittal of an incomplete application may result in the application being returned. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.



**MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL**

|                                               |                           |                    |
|-----------------------------------------------|---------------------------|--------------------|
| FACILITY NAME<br>Shoal Creel Wastewater Plant | PERMIT NO.<br>MO- 0104906 | OUTFALL NO.<br>001 |
|-----------------------------------------------|---------------------------|--------------------|

**PART D – EXPANDED EFFLUENT TESTING DATA**

**16. EXPANDED EFFLUENT TESTING DATA**

Refer to the APPLICATION OVERVIEW to determine whether Part D applies to the treatment works.

If the treatment works has a design flow greater than or equal to 1 million gallons per day or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information **for each outfall through which effluent is discharged**. Do not include information of combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least **three pollutant scans** and must be no more than four and one-half years apart.

Outfall Number (Complete Once for Each Outfall Discharging Effluent to Waters of the State.)

| POLLUTANT                                                        | MAXIMUM DAILY DISCHARGE |       |      |       | AVERAGE DAILY DISCHARGE |       |      |       |                | ANALYTICAL METHOD | ML/MDL |
|------------------------------------------------------------------|-------------------------|-------|------|-------|-------------------------|-------|------|-------|----------------|-------------------|--------|
|                                                                  | Conc.                   | Units | Mass | Units | Conc.                   | Units | Mass | Units | No. of Samples |                   |        |
| <b>METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS AND HARDNESS</b> |                         |       |      |       |                         |       |      |       |                |                   |        |
| ALUMINUM                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ANTIMONY                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ARSENIC                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| BERYLLIUM                                                        |                         |       |      |       |                         |       |      |       |                |                   |        |
| CADMIUM                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHROMIUM III                                                     |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHROMIUM VI                                                      |                         |       |      |       |                         |       |      |       |                |                   |        |
| COPPER                                                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| IRON                                                             |                         |       |      |       |                         |       |      |       |                |                   |        |
| LEAD                                                             |                         |       |      |       |                         |       |      |       |                |                   |        |
| MERCURY                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| NICKEL                                                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| SELENIUM                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| SILVER                                                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| THALLIUM                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ZINC                                                             |                         |       |      |       |                         |       |      |       |                |                   |        |
| CYANIDE                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| TOTAL PHENOLIC COMPOUNDS                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| HARDNESS (as CaCO <sub>3</sub> )                                 |                         |       |      |       |                         |       |      |       |                |                   |        |
| <b>VOLATILE ORGANIC COMPOUNDS</b>                                |                         |       |      |       |                         |       |      |       |                |                   |        |
| ACROLEIN                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ACRYLONITRILE                                                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| BENZENE                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| BROMOFORM                                                        |                         |       |      |       |                         |       |      |       |                |                   |        |
| CARBON TETRACHLORIDE                                             |                         |       |      |       |                         |       |      |       |                |                   |        |

\* See attached



**PART D – EXPANDED EFFLUENT TESTING DATA**

**16. EXPANDED EFFLUENT TESTING DATA**

Complete Once for Each Outfall Discharging Effluent to Waters of the State

| POLLUTANT                         | MAXIMUM DAILY DISCHARGE |       |      |       | AVERAGE DAILY DISCHARGE |       |      |       |                | ANALYTICAL METHOD | ML/MDL |
|-----------------------------------|-------------------------|-------|------|-------|-------------------------|-------|------|-------|----------------|-------------------|--------|
|                                   | Conc.                   | Units | Mass | Units | Conc.                   | Units | Mass | Units | No. of Samples |                   |        |
| CHLOROBENZENE                     |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHLORODIBROMO-METHANE             |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHLOROETHANE                      |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2-CHLORO-ETHYL VINYL ETHER        |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHLOROFORM                        |                         |       |      |       |                         |       |      |       |                |                   |        |
| DICHLOROBROMO-METHANE             |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1-DICHLORO-ETHANE               |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,2-DICHLORO-ETHANE               |                         |       |      |       |                         |       |      |       |                |                   |        |
| TRANS-1,2-DICHLOROETHYLENE        |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1-DICHLORO-ETHYLENE             |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,2-DICHLORO-PROPANE              |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,3-DICHLORO-PROPYLENE            |                         |       |      |       |                         |       |      |       |                |                   |        |
| ETHYLBENZENE                      |                         |       |      |       |                         |       |      |       |                |                   |        |
| METHYL BROMIDE                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| METHYL CHLORIDE                   |                         |       |      |       |                         |       |      |       |                |                   |        |
| METHYLENE CHLORIDE                |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1,2,2-TETRA-CHLOROETHANE        |                         |       |      |       |                         |       |      |       |                |                   |        |
| TETRACHLORO-ETHANE                |                         |       |      |       |                         |       |      |       |                |                   |        |
| TOLUENE                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1,1-TRICHLORO-ETHANE            |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1,2-TRICHLORO-ETHANE            |                         |       |      |       |                         |       |      |       |                |                   |        |
| TRICHLORETHYLENE                  |                         |       |      |       |                         |       |      |       |                |                   |        |
| VINYL CHLORIDE                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| <b>ACID-EXTRACTABLE COMPOUNDS</b> |                         |       |      |       |                         |       |      |       |                |                   |        |
| P-CHLORO-M-CRESOL                 |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2-CHLOROPHENOL                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2,4-DICHLOROPHENOL                |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2,4-DIMETHYLPHENOL                |                         |       |      |       |                         |       |      |       |                |                   |        |
| 4,6-DINITRO-O-CRESOL              |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2,4-DINITROPHENOL                 |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2-NITROPHENOL                     |                         |       |      |       |                         |       |      |       |                |                   |        |
| 4-NITROPHENOL                     |                         |       |      |       |                         |       |      |       |                |                   |        |

\* See attached



|               |                              |                           |                    |
|---------------|------------------------------|---------------------------|--------------------|
| FACILITY NAME | Shoal Creek Wastewater Plant | PERMIT NO.<br>MO- 0104906 | OUTFALL NO.<br>001 |
|---------------|------------------------------|---------------------------|--------------------|

**PART D – EXPANDED EFFLUENT TESTING DATA**
**16. EXPANDED EFFLUENT TESTING DATA**

Complete Once for Each Outfall Discharging Effluent to Waters of the State.

| POLLUTANT                          | MAXIMUM DAILY DISCHARGE |       |      |       | AVERAGE DAILY DISCHARGE |       |      |       |                   | ANALYTICAL<br>METHOD | ML/MDL |
|------------------------------------|-------------------------|-------|------|-------|-------------------------|-------|------|-------|-------------------|----------------------|--------|
|                                    | Conc.                   | Units | Mass | Units | Conc.                   | Units | Mass | Units | No. of<br>Samples |                      |        |
| PENTACHLOROPHENOL                  |                         |       |      |       |                         |       |      |       |                   |                      |        |
| PHENOL                             |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 2,4,6-TRICHLOROPHENOL              |                         |       |      |       |                         |       |      |       |                   |                      |        |
| <b>BASE-NEUTRAL COMPOUNDS</b>      |                         |       |      |       |                         |       |      |       |                   |                      |        |
| ACENAPHTHENE                       |                         |       |      |       |                         |       |      |       |                   |                      |        |
| ACENAPHTHYLENE                     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| ANTHRACENE                         |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZIDINE                          |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(A)ANTHRACENE                 |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(A)PYRENE                     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 3,4-BENZO-<br>FLUORANTHENE         |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(GH) PHERYLENE                |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(K)<br>FLUORANTHENE           |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-CHLOROTHOXY)<br>METHANE     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-CHLOROETHYL) –<br>ETHER     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-CHLOROISO-<br>PROPYL) ETHER |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-ETHYLHEXYL)<br>PHTHALATE    |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 4-BROMOPHENYL<br>PHENYL ETHER      |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BUTYL BENZYL<br>PHTHALATE          |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 2-CHLORONAPH-<br>THALENE           |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 4-CHLORPHENYL<br>PHENYL ETHER      |                         |       |      |       |                         |       |      |       |                   |                      |        |
| CHRYSENE                           |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DI-N-BUTYL PHTHALATE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DI-N-OCTYL PHTHALATE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DIBENZO (A,H)<br>ANTHRACENE        |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 1,2-DICHLORO-BENZENE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 1,3-DICHLORO-BENZENE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 1,4-DICHLORO-BENZENE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 3,3-DICHLORO-<br>BENZIDINE         |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DIETHYL PHTHALATE                  |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DIMETHYL PHTHALATE                 |                         |       |      |       |                         |       |      |       |                   |                      |        |

\* See attached







RECEIVED

JUL 18 2016

# ANALYTICAL RESULTS

## Water Protection Program

Project: WET TEST  
Pace Project No.: 60175707

Sample: SHOAL-EFFLUENT (C2 YEARLY) Lab ID: 60175707001 Collected: 08/13/14 08:30 Received: 08/13/14 14:30 Matrix: Water

| Parameters                          | Results  | Units | Report Limit | DF | Prepared | Analyzed       | CAS No. | Qual |
|-------------------------------------|----------|-------|--------------|----|----------|----------------|---------|------|
| Acute Toxicity                      |          |       |              |    |          |                |         |      |
| Analytical Method: EPA 821/R-02/012 |          |       |              |    |          |                |         |      |
| Toxicity, Acute                     | Complete |       | 1.0          | 1  |          | 08/13/14 15:15 |         |      |

Sample: SHOAL EFFLUENT Lab ID: 60175707002 Collected: 08/13/14 08:30 Received: 08/13/14 18:20 Matrix: Water

| Parameters                                              | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------------------------|---------|-------|--------------|----|----------------|----------------|------------|------|
| 608 PCBs                                                |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 608 Preparation Method: EPA 3535 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11096-82-5 |      |
| Surrogates                                              |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                | 57 %    |       | 18-119       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 877-09-8   |      |
| Tetrachloro-m-xylene (S)                                | 69 %    |       | 18-119       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 877-09-8   |      |
| Decachlorobiphenyl (S)                                  | 80 %    |       | 10-137       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 2051-24-3  |      |
| Decachlorobiphenyl (S)                                  | 80 %    |       | 10-137       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 2051-24-3  |      |

|                                                         |         |  |        |   |                |                |            |  |
|---------------------------------------------------------|---------|--|--------|---|----------------|----------------|------------|--|
| 608 GCS Pesticides                                      |         |  |        |   |                |                |            |  |
| Analytical Method: EPA 608 Preparation Method: EPA 3535 |         |  |        |   |                |                |            |  |
| Aldrin                                                  | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 309-00-2   |  |
| alpha-BHC                                               | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 319-84-6   |  |
| beta-BHC                                                | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 319-85-7   |  |
| delta-BHC                                               | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 319-86-8   |  |
| gamma-BHC (Lindane)                                     | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 58-89-9    |  |
| alpha-Chlordane                                         | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 5103-71-9  |  |
| gamma-Chlordane                                         | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 5103-74-2  |  |
| 4,4'-DDD                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 72-54-8    |  |
| 4,4'-DDE                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 72-55-9    |  |
| 4,4'-DDT                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 50-29-3    |  |
| Dieldrin                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 60-57-1    |  |
| Endosulfan I                                            | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 959-98-8   |  |
| Endosulfan II                                           | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 33213-65-9 |  |
| Endosulfan sulfate                                      | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 1031-07-8  |  |
| Endrin                                                  | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 72-20-8    |  |
| Endrin aldehyde                                         | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 7421-93-4  |  |
| Heptachlor                                              | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 76-44-8    |  |
| Heptachlor epoxide                                      | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 1024-57-3  |  |
| Toxaphene                                               | ND ug/L |  | 2.0    | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 8001-35-2  |  |
| Surrogates                                              |         |  |        |   |                |                |            |  |
| Tetrachloro-m-xylene (S)                                | 62 %    |  | 18-119 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 877-09-8   |  |
| Tetrachloro-m-xylene (S)                                | 66 %    |  | 18-119 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 877-09-8   |  |
| Decachlorobiphenyl (S)                                  | 77 %    |  | 10-137 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 2051-24-3  |  |
| Decachlorobiphenyl (S)                                  | 77 %    |  | 10-137 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 2051-24-3  |  |

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## ANALYTICAL RESULTS

Project: WET TEST

Pace Project No.: 60175707

| Sample: SHOAL EFFLUENT       |           | Lab ID: 60175707002                                        | Collected: 08/13/14 08:30 | Received: 08/13/14 18:20 | Matrix: Water  |                |            |      |
|------------------------------|-----------|------------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                   | Results   | Units                                                      | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.8 MET ICPMS</b>       |           | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |                           |                          |                |                |            |      |
| Cadmium                      | ND ug/L   |                                                            | 0.50                      | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-43-9  |      |
| Chromium                     | ND ug/L   |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-47-3  |      |
| Copper                       | 1.2 ug/L  |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-50-8  |      |
| Iron                         | ND ug/L   |                                                            | 50.0                      | 1                        | 08/19/14 11:00 | 08/21/14 11:02 | 7439-89-6  |      |
| Lead                         | ND ug/L   |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7439-92-1  |      |
| Nickel                       | 1.5 ug/L  |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-02-0  |      |
| Selenium                     | ND ug/L   |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7782-49-2  |      |
| Zinc                         | 34.2 ug/L |                                                            | 10.0                      | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-66-6  |      |
| <b>245.1 Mercury</b>         |           | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 |                           |                          |                |                |            |      |
| Mercury                      | ND ug/L   |                                                            | 0.20                      | 1                        | 08/18/14 16:30 | 08/19/14 13:02 | 7439-97-6  |      |
| <b>625 MSSV</b>              |           | Analytical Method: EPA 625 Preparation Method: EPA 625     |                           |                          |                |                |            |      |
| Acenaphthene                 | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 83-32-9    |      |
| Acenaphthylene               | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 208-96-8   |      |
| Anthracene                   | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 120-12-7   |      |
| Benzidine                    | ND ug/L   |                                                            | 50.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 92-87-5    |      |
| Benzo(a)anthracene           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 56-55-3    |      |
| Benzo(a)pyrene               | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 50-32-8    |      |
| Benzo(b)fluoranthene         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 205-99-2   |      |
| Benzo(g,h,i)perylene         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 191-24-2   |      |
| Benzo(k)fluoranthene         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 207-08-9   |      |
| 4-Bromophenylphenyl ether    | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 101-55-3   |      |
| Butylbenzylphthalate         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 85-68-7    |      |
| 4-Chloro-3-methylphenol      | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 59-50-7    |      |
| bis(2-Chloroethoxy)methane   | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 111-91-1   |      |
| bis(2-Chloroethyl) ether     | ND ug/L   |                                                            | 6.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 111-44-4   |      |
| bis(2-Chloroisopropyl) ether | ND ug/L   |                                                            | 6.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 39638-32-9 |      |
| 2-Chloronaphthalene          | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 91-58-7    |      |
| 2-Chlorophenol               | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether   | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 7005-72-3  |      |
| Chrysene                     | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 218-01-9   |      |
| Dibenz(a,h)anthracene        | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 53-70-3    |      |
| 3,3'-Dichlorobenzidine       | ND ug/L   |                                                            | 20.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 91-94-1    |      |
| 2,4-Dichlorophenol           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 120-83-2   |      |
| Diethylphthalate             | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 84-66-2    |      |
| 2,4-Dimethylphenol           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 105-67-9   |      |
| Dimethylphthalate            | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 131-11-3   |      |
| Di-n-butylphthalate          | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol   | ND ug/L   |                                                            | 25.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 534-52-1   |      |
| 2,4-Dinitrophenol            | ND ug/L   |                                                            | 50.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 51-28-5    |      |
| 2,4-Dinitrotoluene           | ND ug/L   |                                                            | 6.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 121-14-2   |      |
| 2,6-Dinitrotoluene           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 606-20-2   |      |
| Di-n-octylphthalate          | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate   | 8.4 ug/L  |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 117-81-7   |      |
| Fluoranthene                 | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 206-44-0   |      |

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## ANALYTICAL RESULTS

Project: WET TEST  
Pace Project No.: 60175707

| Sample: SHOAL EFFLUENT                |         | Lab ID: 60175707002                                    | Collected: 08/13/14 08:30 | Received: 08/13/14 18:20 | Matrix: Water  |                |            |      |
|---------------------------------------|---------|--------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                            | Results | Units                                                  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>625 MSSV</b>                       |         | Analytical Method: EPA 625 Preparation Method: EPA 625 |                           |                          |                |                |            |      |
| Fluorene                              | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 86-73-7    |      |
| Hexachloro-1,3-butadiene              | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 87-68-3    |      |
| Hexachlorobenzene                     | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 118-74-1   |      |
| Hexachlorocyclopentadiene             | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 77-47-4    |      |
| Hexachloroethane                      | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 193-39-5   |      |
| Isophorone                            | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 78-59-1    |      |
| Naphthalene                           | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 91-20-3    |      |
| Nitrobenzene                          | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 98-95-3    |      |
| 2-Nitrophenol                         | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 88-75-5    |      |
| 4-Nitrophenol                         | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 100-02-7   |      |
| N-Nitrosodimethylamine                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine            | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 621-64-7   |      |
| N-Nitrosodiphenylamine                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 86-30-6    |      |
| Pentachlorophenol                     | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 87-86-5    |      |
| Phenanthrene                          | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 85-01-8    |      |
| Phenol                                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 108-95-2   |      |
| Pyrene                                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 120-82-1   |      |
| 2,4,6-Trichlorophenol                 | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 88-06-2    |      |
| <b>Surrogates</b>                     |         |                                                        |                           |                          |                |                |            |      |
| Nitrobenzene-d5 (S)                   | 60 %    |                                                        | 33-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)                  | 65 %    |                                                        | 39-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 321-60-8   |      |
| Terphenyl-d14 (S)                     | 80 %    |                                                        | 45-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 1718-51-0  |      |
| Phenol-d6 (S)                         | 15 %    |                                                        | 11-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 13127-88-3 |      |
| 2-Fluorophenol (S)                    | 26 %    |                                                        | 17-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 367-12-4   |      |
| 2,4,6-Tribromophenol (S)              | 65 %    |                                                        | 39-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 118-79-6   |      |
| <b>624 Volatile Organics</b>          |         | Analytical Method: EPA 624 Low                         |                           |                          |                |                |            |      |
| 1,2-Dichloroethane                    | ND ug/L |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 | 107-06-2   |      |
| 1,1,1-Trichloroethane                 | ND ug/L |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 | 71-55-6    |      |
| 1,1,2-Trichloroethane                 | ND ug/L |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 | 79-00-5    |      |
| <b>Surrogates</b>                     |         |                                                        |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)              | 100 %   |                                                        | 80-120                    | 1                        |                | 08/18/14 17:15 | 460-00-4   |      |
| Toluene-d8 (S)                        | 101 %   |                                                        | 80-120                    | 1                        |                | 08/18/14 17:15 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)             | 95 %    |                                                        | 80-120                    | 1                        |                | 08/18/14 17:15 | 17060-07-0 |      |
| Preservation pH                       | 6.0     |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 |            |      |
| <b>Trivalent Chromium Calculation</b> |         | Analytical Method: Trivalent Chromium Calculation      |                           |                          |                |                |            |      |
| Chromium, Trivalent                   | ND mg/L |                                                        | 0.010                     | 1                        |                | 08/22/14 08:23 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b>           |         | Analytical Method: SM 3500-Cr B                        |                           |                          |                |                |            |      |
| Chromium, Hexavalent                  | ND mg/L |                                                        | 0.010                     | 1                        |                | 08/14/14 08:17 | 18540-29-9 |      |
| <b>350.1 Ammonia</b>                  |         | Analytical Method: EPA 350.1                           |                           |                          |                |                |            |      |
| Nitrogen, Ammonia                     | ND mg/L |                                                        | 0.10                      | 1                        |                | 08/20/14 12:34 | 7664-41-7  |      |

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## ANALYTICAL RESULTS

Project: WET TEST

Pace Project No.: 60175707

| Sample: SHOAL EFFLUENT              |                                 | Lab ID: 60175707002 | Collected: 08/13/14 08:30 | Received: 08/13/14 18:20 | Matrix: Water |                |         |      |
|-------------------------------------|---------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|---------|------|
| Parameters                          | Results                         | Units               | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No. | Qual |
| <b>Phenolics, Total Recoverable</b> | Analytical Method: EPA 420.1    |                     |                           |                          |               |                |         |      |
| Phenolics, Total Recoverable        | ND                              | mg/L                | 0.050                     | 1                        |               | 08/21/14 16:14 |         |      |
| <b>4500CNE Cyanide, Total</b>       | Analytical Method: SM 4500-CN-E |                     |                           |                          |               |                |         |      |
| Cyanide                             | ND                              | mg/L                | 0.0050                    | 1                        |               | 08/20/14 23:22 | 57-12-5 |      |

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## ANALYTICAL RESULTS

Project: SHOAL YEARLY  
Pace Project No.: 60200398

**Sample: YEARLY SHOAL EFFLUENT**      **Lab ID: 60200398001**      Collected: 08/12/15 08:45      Received: 08/12/15 15:15      Matrix: Water

| Parameters                                                | Results         | Units | Report Limit | MDL | DF | Prepared | Analyzed       | CAS No. | Qual |
|-----------------------------------------------------------|-----------------|-------|--------------|-----|----|----------|----------------|---------|------|
| <b>Acute Toxicity</b> Analytical Method: EPA 821/R-02/012 |                 |       |              |     |    |          |                |         |      |
| Toxicity, Acute                                           | <b>Complete</b> |       | 1.0          | 1.0 | 1  |          | 08/12/15 15:30 |         |      |

**Sample: YEARLY SHOAL EFFLUENT**      **Lab ID: 60200398002**      Collected: 08/12/15 08:45      Received: 08/12/15 20:00      Matrix: Water

| Parameters                                                                   | Results | Units | Report Limit | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------------------------------------------------------|---------|-------|--------------|------|----|----------------|----------------|------------|------|
| <b>608 PCBs</b> Analytical Method: EPA 608      Preparation Method: EPA 3535 |         |       |              |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11096-82-5 |      |
| <b>Surrogates</b>                                                            |         |       |              |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                                     | 65      | %     | 18-119       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 877-09-8   |      |
| Tetrachloro-m-xylene (S)                                                     | 87      | %     | 18-119       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 877-09-8   |      |
| Decachlorobiphenyl (S)                                                       | 94      | %     | 10-137       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 2051-24-3  |      |
| Decachlorobiphenyl (S)                                                       | 96      | %     | 10-137       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 2051-24-3  |      |

|                                                                                        |    |      |        |        |   |                |                |            |  |
|----------------------------------------------------------------------------------------|----|------|--------|--------|---|----------------|----------------|------------|--|
| <b>608 GCS Pesticides</b> Analytical Method: EPA 608      Preparation Method: EPA 3535 |    |      |        |        |   |                |                |            |  |
| Aldrin                                                                                 | ND | ug/L | 0.010  | 0.0050 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 309-00-2   |  |
| alpha-BHC                                                                              | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 319-84-6   |  |
| beta-BHC                                                                               | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 319-85-7   |  |
| delta-BHC                                                                              | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 319-86-8   |  |
| gamma-BHC (Lindane)                                                                    | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 58-89-9    |  |
| Chlordane (Technical)                                                                  | ND | ug/L | 0.20   | 0.10   | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 57-74-9    |  |
| 4,4'-DDD                                                                               | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 72-54-8    |  |
| 4,4'-DDE                                                                               | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 72-55-9    |  |
| 4,4'-DDT                                                                               | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 50-29-3    |  |
| Dieldrin                                                                               | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 60-57-1    |  |
| Endosulfan I                                                                           | ND | ug/L | 0.010  | 0.0080 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 959-98-8   |  |
| Endosulfan II                                                                          | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 33213-65-9 |  |
| Endosulfan sulfate                                                                     | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 1031-07-8  |  |
| Endrin                                                                                 | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 72-20-8    |  |
| Endrin aldehyde                                                                        | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 7421-93-4  |  |
| Heptachlor                                                                             | ND | ug/L | 0.010  | 0.0050 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 76-44-8    |  |
| Heptachlor epoxide                                                                     | ND | ug/L | 0.010  | 0.0060 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 1024-57-3  |  |
| Toxaphene                                                                              | ND | ug/L | 0.30   | 0.15   | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 8001-35-2  |  |
| <b>Surrogates</b>                                                                      |    |      |        |        |   |                |                |            |  |
| Tetrachloro-m-xylene (S)                                                               | 73 | %    | 18-119 |        | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 877-09-8   |  |
| Tetrachloro-m-xylene (S)                                                               | 71 | %    | 18-119 |        | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 877-09-8   |  |
| Decachlorobiphenyl (S)                                                                 | 82 | %    | 10-137 |        | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 2051-24-3  |  |

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## ANALYTICAL RESULTS

Project: SHOAL YEARLY  
Pace Project No.: 60200398

Sample: YEARLY SHOAL EFFLUENT      Lab ID: 60200398002      Collected: 08/12/15 08:45      Received: 08/12/15 20:00      Matrix: Water

| Parameters                                                                             | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|----------------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>608 GCS Pesticides</b> Analytical Method: EPA 608      Preparation Method: EPA 3535 |         |       |              |       |    |                |                |            |      |
| <b>Surrogates</b>                                                                      |         |       |              |       |    |                |                |            |      |
| Decachlorobiphenyl (S)                                                                 | 112     | %     | 10-137       |       | 1  | 08/19/15 13:40 | 08/19/15 20:42 | 2051-24-3  |      |
| <b>200.8 MET ICPMS</b> Analytical Method: EPA 200.8      Preparation Method: EPA 200.8 |         |       |              |       |    |                |                |            |      |
| Arsenic                                                                                | ND      | ug/L  | 1.0          | 0.25  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-38-2  |      |
| Cadmium                                                                                | ND      | ug/L  | 0.50         | 0.082 | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-43-9  |      |
| Copper                                                                                 | 0.63J   | ug/L  | 1.0          | 0.21  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-50-8  |      |
| Lead                                                                                   | 0.46J   | ug/L  | 1.0          | 0.23  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7439-92-1  | B    |
| Molybdenum                                                                             | 1.0     | ug/L  | 1.0          | 0.12  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7439-98-7  |      |
| Nickel                                                                                 | 2.0     | ug/L  | 1.0          | 0.39  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-02-0  |      |
| Silver                                                                                 | ND      | ug/L  | 0.50         | 0.054 | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-22-4  |      |
| Zinc                                                                                   | 10.6    | ug/L  | 10.0         | 4.5   | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-66-6  |      |
| <b>245.1 Mercury</b> Analytical Method: EPA 245.1      Preparation Method: EPA 245.1   |         |       |              |       |    |                |                |            |      |
| Mercury                                                                                | 0.065J  | ug/L  | 0.20         | 0.012 | 1  | 08/17/15 09:00 | 08/17/15 15:07 | 7439-97-6  |      |
| <b>625 MSSV</b> Analytical Method: EPA 625      Preparation Method: EPA 625            |         |       |              |       |    |                |                |            |      |
| Acenaphthene                                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 83-32-9    |      |
| Acenaphthylene                                                                         | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 208-96-8   |      |
| Anthracene                                                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 120-12-7   |      |
| Benzidine                                                                              | ND      | ug/L  | 50.0         | 25.0  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 92-87-5    | M1   |
| Benzo(a)anthracene                                                                     | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 56-55-3    |      |
| Benzo(a)pyrene                                                                         | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 50-32-8    |      |
| Benzo(b)fluoranthene                                                                   | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                                                   | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 191-24-2   |      |
| Benzo(k)fluoranthene                                                                   | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 207-08-9   |      |
| 4-Bromophenylphenyl ether                                                              | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 101-55-3   |      |
| Butylbenzylphthalate                                                                   | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                                                | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 59-50-7    |      |
| bis(2-Chloroethoxy)methane                                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                                               | ND      | ug/L  | 6.0          | 3.0   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 111-44-4   |      |
| bis(2-Chloroisopropyl) ether                                                           | ND      | ug/L  | 6.0          | 3.0   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 39638-32-9 |      |
| 2-Chloronaphthalene                                                                    | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 91-58-7    |      |
| 2-Chlorophenol                                                                         | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 7005-72-3  |      |
| Chrysene                                                                               | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                                                  | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 53-70-3    |      |
| 3,3'-Dichlorobenzidine                                                                 | ND      | ug/L  | 20.0         | 10.0  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 91-94-1    |      |
| 2,4-Dichlorophenol                                                                     | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 120-83-2   |      |
| Diethylphthalate                                                                       | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 84-66-2    |      |
| 2,4-Dimethylphenol                                                                     | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 105-67-9   |      |
| Dimethylphthalate                                                                      | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 131-11-3   |      |
| Di-n-butylphthalate                                                                    | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol                                                             | ND      | ug/L  | 25.0         | 12.5  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 534-52-1   |      |
| 2,4-Dinitrophenol                                                                      | ND      | ug/L  | 50.0         | 25.0  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 51-28-5    |      |

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Date: 08/26/2015 05:05 PM

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## ANALYTICAL RESULTS

Project: SHOAL YEARLY  
Pace Project No.: 60200398

**Sample:** YEARLY SHOAL EFFLUENT **Lab ID:** 60200398002 **Collected:** 08/12/15 08:45 **Received:** 08/12/15 20:00 **Matrix:** Water

| Parameters                                                             | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>625 MSSV</b> Analytical Method: EPA 625 Preparation Method: EPA 625 |         |       |              |       |    |                |                |            |      |
| 2,4-Dinitrotoluene                                                     | ND      | ug/L  | 6.0          | 3.0   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 121-14-2   |      |
| 2,6-Dinitrotoluene                                                     | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 606-20-2   |      |
| Di-n-octylphthalate                                                    | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 117-81-7   |      |
| Fluoranthene                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 206-44-0   |      |
| Fluorene                                                               | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 86-73-7    |      |
| Hexachloro-1,3-butadiene                                               | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 87-68-3    |      |
| Hexachlorobenzene                                                      | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 118-74-1   |      |
| Hexachlorocyclopentadiene                                              | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 77-47-4    |      |
| Hexachloroethane                                                       | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 193-39-5   |      |
| Isophorone                                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 78-59-1    |      |
| Naphthalene                                                            | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 91-20-3    |      |
| Nitrobenzene                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 98-95-3    |      |
| 2-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 88-75-5    |      |
| 4-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 100-02-7   |      |
| N-Nitrosodimethylamine                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 621-64-7   |      |
| N-Nitrosodiphenylamine                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 86-30-6    |      |
| Pentachlorophenol                                                      | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 87-86-5    |      |
| Phenanthrene                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 85-01-8    |      |
| Phenol                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 108-95-2   |      |
| Pyrene                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 120-82-1   |      |
| 2,4,6-Trichlorophenol                                                  | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 88-06-2    |      |
| <b>Surrogates</b>                                                      |         |       |              |       |    |                |                |            |      |
| Nitrobenzene-d5 (S)                                                    | 80      | %     | 33-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)                                                   | 74      | %     | 39-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 321-60-8   |      |
| Terphenyl-d14 (S)                                                      | 80      | %     | 45-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 1718-51-0  |      |
| Phenol-d6 (S)                                                          | 32      | %     | 11-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 13127-88-3 |      |
| 2-Fluorophenol (S)                                                     | 45      | %     | 17-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 367-12-4   |      |
| 2,4,6-Tribromophenol (S)                                               | 90      | %     | 39-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 118-79-6   |      |
| <b>350.1 Ammonia</b> Analytical Method: EPA 350.1                      |         |       |              |       |    |                |                |            |      |
| Nitrogen, Ammonia                                                      | 7.7     | mg/L  | 0.50         | 0.23  | 5  |                | 08/19/15 14:52 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b> Analytical Method: EPA 420.1       |         |       |              |       |    |                |                |            |      |
| Phenolics, Total Recoverable                                           | ND      | mg/L  | 0.050        | 0.020 | 1  |                | 08/18/15 12:42 |            |      |

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# ANALYTICAL RESULTS

Water Protection Program

Project: SHOAL BIOSOLIDS  
Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS Lab ID: 60150608001 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters                                                                                     | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------------------------------------------------------------------------|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP Red. Interference</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |           |      |
| Arsenic                                                                                        | ND      | mg/kg | 4.3          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-38-2 |      |
| Cadmium                                                                                        | 4.5     | mg/kg | 2.1          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-43-9 |      |
| Chromium                                                                                       | 25.6    | mg/kg | 2.1          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-47-3 |      |
| Copper                                                                                         | 194     | mg/kg | 4.3          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-50-8 |      |
| Lead                                                                                           | 65.0    | mg/kg | 4.3          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7439-92-1 |      |
| Molybdenum                                                                                     | ND      | mg/kg | 8.6          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7439-98-7 |      |
| Nickel                                                                                         | 20.3    | mg/kg | 2.1          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-02-0 |      |
| Potassium                                                                                      | 2670    | mg/kg | 214          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-09-7 | B    |
| Selenium                                                                                       | 8.1     | mg/kg | 6.4          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7782-49-2 |      |
| Zinc                                                                                           | 1510    | mg/kg | 42.9         | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-66-6 |      |

## 6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 08/16/13 00:00

|          |    |      |       |   |                |                |           |  |
|----------|----|------|-------|---|----------------|----------------|-----------|--|
| Arsenic  | ND | mg/L | 0.50  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-38-2 |  |
| Barium   | ND | mg/L | 2.5   | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-39-3 |  |
| Cadmium  | ND | mg/L | 0.050 | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-43-9 |  |
| Chromium | ND | mg/L | 0.10  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-47-3 |  |
| Lead     | ND | mg/L | 0.50  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7439-92-1 |  |
| Selenium | ND | mg/L | 0.50  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7782-49-2 |  |
| Silver   | ND | mg/L | 0.10  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-22-4 |  |

## 7470 Mercury, TCLP

Analytical Method: EPA 7470 Preparation Method: EPA 7470

Leachate Method/Date: EPA 1311; 08/16/13 00:00

|         |    |      |        |   |                |                |           |  |
|---------|----|------|--------|---|----------------|----------------|-----------|--|
| Mercury | ND | mg/L | 0.0020 | 1 | 08/19/13 17:00 | 08/20/13 10:23 | 7439-97-6 |  |
|---------|----|------|--------|---|----------------|----------------|-----------|--|

## 7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

|         |     |       |      |   |                |                |           |  |
|---------|-----|-------|------|---|----------------|----------------|-----------|--|
| Mercury | 1.7 | mg/kg | 0.19 | 1 | 08/13/13 09:45 | 08/13/13 13:09 | 7439-97-6 |  |
|---------|-----|-------|------|---|----------------|----------------|-----------|--|

## 8270 MSSV TCLP Sep Funnel

Analytical Method: EPA 8270 Preparation Method: EPA 3510

Leachate Method/Date: EPA 1311; 08/16/13 00:00

|                              |    |      |        |   |                |                |           |  |
|------------------------------|----|------|--------|---|----------------|----------------|-----------|--|
| 1,4-Dichlorobenzene          | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 106-46-7  |  |
| 2,4-Dinitrotoluene           | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 121-14-2  |  |
| Hexachloro-1,3-butadiene     | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 87-68-3   |  |
| Hexachlorobenzene            | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 118-74-1  |  |
| Hexachloroethane             | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 67-72-1   |  |
| 2-Methylphenol(o-Cresol)     | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 95-48-7   |  |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 200    | 1 | 08/19/13 00:00 | 08/20/13 00:56 |           |  |
| Nitrobenzene                 | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 98-95-3   |  |
| Pentachlorophenol            | ND | ug/L | 500    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 87-86-5   |  |
| Pyridine                     | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 110-86-1  |  |
| 2,4,5-Trichlorophenol        | ND | ug/L | 500    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 95-95-4   |  |
| 2,4,6-Trichlorophenol        | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 88-06-2   |  |
| <b>Surrogates</b>            |    |      |        |   |                |                |           |  |
| Nitrobenzene-d5 (S)          | 78 | %    | 42-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 4165-60-0 |  |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS

Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS Lab ID: 60150608001 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

### 8270 MSSV TCLP Sep Funnel

Analytical Method: EPA 8270 Preparation Method: EPA 3510

Leachate Method/Date: EPA 1311; 08/16/13 00:00

#### Surrogates

|                          |      |  |        |   |                |                |            |  |
|--------------------------|------|--|--------|---|----------------|----------------|------------|--|
| 2-Fluorobiphenyl (S)     | 79 % |  | 43-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 321-60-8   |  |
| Terphenyl-d14 (S)        | 84 % |  | 38-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 1718-51-0  |  |
| Phenol-d6 (S)            | 79 % |  | 41-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 13127-88-3 |  |
| 2-Fluorophenol (S)       | 74 % |  | 40-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 367-12-4   |  |
| 2,4,6-Tribromophenol (S) | 80 % |  | 38-126 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 118-79-6   |  |

### 8260 MSV TCLP

Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 08/16/13 00:00

|                      |         |  |      |   |  |                |          |  |
|----------------------|---------|--|------|---|--|----------------|----------|--|
| Benzene              | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 71-43-2  |  |
| 2-Butanone (MEK)     | ND ug/L |  | 1000 | 1 |  | 08/19/13 18:58 | 78-93-3  |  |
| Carbon tetrachloride | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 56-23-5  |  |
| Chlorobenzene        | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 108-90-7 |  |
| Chloroform           | ND ug/L |  | 200  | 1 |  | 08/19/13 18:58 | 67-66-3  |  |
| 1,2-Dichloroethane   | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 107-06-2 |  |
| 1,1-Dichloroethene   | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 75-35-4  |  |
| Tetrachloroethene    | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 127-18-4 |  |
| Trichloroethene      | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 79-01-6  |  |
| Vinyl chloride       | ND ug/L |  | 100  | 1 |  | 08/19/13 18:58 | 75-01-4  |  |

#### Surrogates

|                           |       |  |        |   |  |                |            |  |
|---------------------------|-------|--|--------|---|--|----------------|------------|--|
| 1,2-Dichloroethane-d4 (S) | 101 % |  | 80-120 | 1 |  | 08/19/13 18:58 | 17060-07-0 |  |
| Toluene-d8 (S)            | 100 % |  | 80-120 | 1 |  | 08/19/13 18:58 | 2037-26-5  |  |
| 4-Bromofluorobenzene (S)  | 97 %  |  | 80-120 | 1 |  | 08/19/13 18:58 | 460-00-4   |  |

### 8260/5035A Volatile Organics

Analytical Method: EPA 8260

|                             |          |  |     |   |  |                |          |  |
|-----------------------------|----------|--|-----|---|--|----------------|----------|--|
| Acetone                     | ND ug/kg |  | 519 | 1 |  | 08/19/13 15:56 | 67-64-1  |  |
| Benzene                     | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 71-43-2  |  |
| Bromobenzene                | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 108-86-1 |  |
| Bromochloromethane          | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 74-97-5  |  |
| Bromodichloromethane        | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-27-4  |  |
| Bromoform                   | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-25-2  |  |
| Bromomethane                | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 74-83-9  |  |
| 2-Butanone (MEK)            | ND ug/kg |  | 259 | 1 |  | 08/19/13 15:56 | 78-93-3  |  |
| n-Butylbenzene              | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 104-51-8 |  |
| sec-Butylbenzene            | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 135-98-8 |  |
| tert-Butylbenzene           | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 98-06-6  |  |
| Carbon disulfide            | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-15-0  |  |
| Carbon tetrachloride        | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 56-23-5  |  |
| Chlorobenzene               | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 108-90-7 |  |
| Chloroethane                | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-00-3  |  |
| Chloroform                  | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 67-66-3  |  |
| Chloromethane               | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 74-87-3  |  |
| 2-Chlorotoluene             | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 95-49-8  |  |
| 4-Chlorotoluene             | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 106-43-4 |  |
| 1,2-Dibromo-3-chloropropane | ND ug/kg |  | 259 | 1 |  | 08/19/13 15:56 | 96-12-8  |  |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS

Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS Lab ID: 60150608001 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters                          | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-------------------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260/5035A Volatile Organics</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Dibromochloromethane                | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 106-93-4   |      |
| Dibromomethane                      | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 106-46-7   |      |
| Dichlorodifluoromethane             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-71-8    |      |
| 1,1-Dichloroethane                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-34-3    |      |
| 1,2-Dichloroethane                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)          | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 540-59-0   |      |
| 1,1-Dichloroethene                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene            | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 156-60-5   |      |
| 1,2-Dichloropropane                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 78-87-5    |      |
| 1,3-Dichloropropane                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 142-28-9   |      |
| 2,2-Dichloropropane                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 594-20-7   |      |
| 1,1-Dichloropropene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 563-58-6   |      |
| cis-1,3-Dichloropropene             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 10061-02-6 |      |
| Ethylbenzene                        | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 100-41-4   |      |
| Hexachloro-1,3-butadiene            | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 87-68-3    |      |
| 2-Hexanone                          | ND      | ug/kg                       | 519          | 1  |          | 08/19/13 15:56 | 591-78-6   |      |
| Isopropylbenzene (Cumene)           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 98-82-8    |      |
| p-Isopropyltoluene                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 99-87-6    |      |
| Methylene chloride                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)         | ND      | ug/kg                       | 259          | 1  |          | 08/19/13 15:56 | 108-10-1   |      |
| Methyl-tert-butyl ether             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 1634-04-4  |      |
| Naphthalene                         | ND      | ug/kg                       | 259          | 1  |          | 08/19/13 15:56 | 91-20-3    |      |
| n-Propylbenzene                     | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 103-65-1   |      |
| Styrene                             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 79-34-5    |      |
| Tetrachloroethene                   | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 127-18-4   |      |
| Toluene                             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 120-82-1   |      |
| 1,1,1-Trichloroethane               | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 71-55-6    |      |
| 1,1,2-Trichloroethane               | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 79-00-5    |      |
| Trichloroethene                     | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 79-01-6    |      |
| Trichlorofluoromethane              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-69-4    |      |
| 1,2,3-Trichloropropane              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 96-18-4    |      |
| 1,2,4-Trimethylbenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 108-67-8   |      |
| Vinyl chloride                      | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-01-4    |      |
| Xylene (Total)                      | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 1330-20-7  |      |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS

Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS Lab ID: 60150608001 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters                   | Results    | Units                                 | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------|------------|---------------------------------------|--------------|----|----------|----------------|------------|------|
| 8260/5035A Volatile Organics |            | Analytical Method: EPA 8260           |              |    |          |                |            |      |
| Surrogates                   |            |                                       |              |    |          |                |            |      |
| Toluene-d8 (S)               | 97 %       |                                       | 80-120       | 1  |          | 08/19/13 15:56 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)     | 91 %       |                                       | 80-120       | 1  |          | 08/19/13 15:56 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)    | 90 %       |                                       | 76-132       | 1  |          | 08/19/13 15:56 | 17060-07-0 |      |
| Percent Moisture             |            | Analytical Method: ASTM D2974         |              |    |          |                |            |      |
| Percent Moisture             | 96.2 %     |                                       | 0.50         | 1  |          | 08/13/13 00:00 |            |      |
| Phenolics, Total Recoverable |            | Analytical Method: EPA 420.1 Modified |              |    |          |                |            |      |
| Phenolics, Total Recoverable | 44.8 mg/kg |                                       | 42.4         | 1  |          | 08/15/13 14:19 |            |      |
| 4500CNE Cyanide, Total       |            | Analytical Method: SM 4500-CN-E       |              |    |          |                |            |      |
| Cyanide                      | ND mg/kg   |                                       | 4.3          | 1  |          | 08/12/13 10:59 | 57-12-5    |      |

Sample: TRIP BLANK Lab ID: 60150608002 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Water

| Parameters                  | Results | Units                             | Report Limit | DF | Prepared | Analyzed       | CAS No.  | Qual |
|-----------------------------|---------|-----------------------------------|--------------|----|----------|----------------|----------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 5030B/8260 |              |    |          |                |          |      |
| Acetone                     | ND ug/L |                                   | 10.0         | 1  |          | 08/20/13 18:04 | 67-64-1  | H1   |
| Benzene                     | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 71-43-2  | H1   |
| Bromobenzene                | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 108-86-1 | H1   |
| Bromochloromethane          | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 74-97-5  | H1   |
| Bromodichloromethane        | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 75-27-4  | H1   |
| Bromoform                   | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 75-25-2  | H1   |
| Bromomethane                | ND ug/L |                                   | 5.0          | 1  |          | 08/20/13 18:04 | 74-83-9  | H1   |
| 2-Butanone (MEK)            | ND ug/L |                                   | 10.0         | 1  |          | 08/20/13 18:04 | 78-93-3  | H1   |
| n-Butylbenzene              | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 104-51-8 | H1   |
| sec-Butylbenzene            | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 135-98-8 | H1   |
| tert-Butylbenzene           | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 98-06-6  | H1   |
| Carbon disulfide            | ND ug/L |                                   | 5.0          | 1  |          | 08/20/13 18:04 | 75-15-0  | H1   |
| Carbon tetrachloride        | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 56-23-5  | H1   |
| Chlorobenzene               | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 108-90-7 | H1   |
| Chloroethane                | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 75-00-3  | H1   |
| Chloroform                  | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 67-66-3  | H1   |
| Chloromethane               | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 74-87-3  | H1   |
| 2-Chlorotoluene             | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 95-49-8  | H1   |
| 4-Chlorotoluene             | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 106-43-4 | H1   |
| 1,2-Dibromo-3-chloropropane | ND ug/L |                                   | 2.5          | 1  |          | 08/20/13 18:04 | 96-12-8  | H1   |
| Dibromochloromethane        | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 124-48-1 | H1   |
| 1,2-Dibromoethane (EDB)     | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 106-93-4 | H1   |
| Dibromomethane              | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 74-95-3  | H1   |
| 1,2-Dichlorobenzene         | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 95-50-1  | H1   |
| 1,3-Dichlorobenzene         | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 541-73-1 | H1   |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS

Pace Project No.: 60150608

| Sample: TRIP BLANK          |         | Lab ID: 60150608002               | Collected: 08/07/13 07:00 | Received: 08/07/13 18:30 | Matrix: Water |                |            |      |
|-----------------------------|---------|-----------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                  | Results | Units                             | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 5030B/8260 |                           |                          |               |                |            |      |
| 1,4-Dichlorobenzene         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 106-46-7   | H1   |
| Dichlorodifluoromethane     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-71-8    | H1   |
| 1,1-Dichloroethane          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-34-3    | H1   |
| 1,2-Dichloroethane          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 107-06-2   | H1   |
| 1,2-Dichloroethene (Total)  | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 540-59-0   | H1   |
| 1,1-Dichloroethene          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-35-4    | H1   |
| cis-1,2-Dichloroethene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 156-59-2   | H1   |
| trans-1,2-Dichloroethene    | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 156-60-5   | H1   |
| 1,2-Dichloropropane         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 78-87-5    | H1   |
| 1,3-Dichloropropane         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 142-28-9   | H1   |
| 2,2-Dichloropropane         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 594-20-7   | H1   |
| 1,1-Dichloropropene         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 563-58-6   | H1   |
| cis-1,3-Dichloropropene     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 10061-01-5 | H1   |
| trans-1,3-Dichloropropene   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 10061-02-6 | H1   |
| Ethylbenzene                | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 100-41-4   | H1   |
| Hexachloro-1,3-butadiene    | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 87-68-3    | H1   |
| 2-Hexanone                  | ND ug/L |                                   | 10.0                      | 1                        |               | 08/20/13 18:04 | 591-78-6   | H1   |
| Isopropylbenzene (Cumene)   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 98-82-8    | H1   |
| p-Isopropyltoluene          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 99-87-6    | H1   |
| Methylene chloride          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-09-2    | H1   |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L |                                   | 10.0                      | 1                        |               | 08/20/13 18:04 | 108-10-1   | H1   |
| Methyl-tert-butyl ether     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 1634-04-4  | H1   |
| Naphthalene                 | ND ug/L |                                   | 10.0                      | 1                        |               | 08/20/13 18:04 | 91-20-3    | H1   |
| n-Propylbenzene             | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 103-65-1   | H1   |
| Styrene                     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 100-42-5   | H1   |
| 1,1,1,2-Tetrachloroethane   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 630-20-6   | H1   |
| 1,1,2,2-Tetrachloroethane   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 79-34-5    | H1   |
| Tetrachloroethene           | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 127-18-4   | H1   |
| Toluene                     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 108-88-3   | H1   |
| 1,2,3-Trichlorobenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 87-61-6    | H1   |
| 1,2,4-Trichlorobenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 120-82-1   | H1   |
| 1,1,1-Trichloroethane       | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 71-55-6    | H1   |
| 1,1,2-Trichloroethane       | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 79-00-5    | H1   |
| Trichloroethene             | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 79-01-6    | H1   |
| Trichlorofluoromethane      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-69-4    | H1   |
| 1,2,3-Trichloropropane      | ND ug/L |                                   | 2.5                       | 1                        |               | 08/20/13 18:04 | 96-18-4    | H1   |
| 1,2,4-Trimethylbenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 95-63-6    | H1   |
| 1,3,5-Trimethylbenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 108-67-8   | H1   |
| Vinyl chloride              | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-01-4    | H1   |
| Xylene (Total)              | ND ug/L |                                   | 3.0                       | 1                        |               | 08/20/13 18:04 | 1330-20-7  |      |
| <b>Surrogates</b>           |         |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)    | 100 %   |                                   | 80-120                    | 1                        |               | 08/20/13 18:04 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 100 %   |                                   | 80-120                    | 1                        |               | 08/20/13 18:04 | 17060-07-0 |      |
| Toluene-d8 (S)              | 107 %   |                                   | 80-120                    | 1                        |               | 08/20/13 18:04 | 2037-26-5  |      |
| Preservation pH             | 7.0     |                                   | 0.10                      | 1                        |               | 08/20/13 18:04 |            | H1   |

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# ANALYTICAL RESULTS

Project: SHOAL EFFLUENT YEARLY 8/8/12

Pace Project No.: 60126860

Sample: SHOAL-EFFLUENT (YEARLY'S) C2 Lab ID: 60126860001 Collected: 08/08/12 07:30 Received: 08/09/12 04:10 Matrix: Water

| Parameters                                                                        | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|-----------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>200.8 MET ICPMS</b> Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |         |       |              |       |    |                |                |            |      |
| Arsenic                                                                           | 1.2     | ug/L  | 1.0          | 0.14  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-38-2  |      |
| Cadmium                                                                           | ND      | ug/L  | 0.50         | 0.097 | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-43-9  |      |
| Copper                                                                            | 5.4     | ug/L  | 1.0          | 0.45  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-50-8  |      |
| Lead                                                                              | 0.77J   | ug/L  | 1.0          | 0.051 | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7439-92-1  |      |
| Molybdenum                                                                        | 3.4     | ug/L  | 1.0          | 0.16  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7439-98-7  |      |
| Nickel                                                                            | 3.1     | ug/L  | 1.0          | 0.35  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-02-0  |      |
| Silver                                                                            | ND      | ug/L  | 0.50         | 0.059 | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-22-4  |      |
| Zinc                                                                              | 38.0    | ug/L  | 10.0         | 1.6   | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-66-6  | B    |
| <b>245.1 Mercury</b> Analytical Method: EPA 245.1 Preparation Method: EPA 245.1   |         |       |              |       |    |                |                |            |      |
| Mercury                                                                           | ND      | ug/L  | 0.20         | 0.053 | 1  | 08/14/12 16:45 | 08/15/12 15:39 | 7439-97-6  |      |
| <b>625 MSSV</b> Analytical Method: EPA 625 Preparation Method: EPA 625            |         |       |              |       |    |                |                |            |      |
| Acenaphthene                                                                      | ND      | ug/L  | 5.0          | 0.29  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 83-32-9    |      |
| Acenaphthylene                                                                    | ND      | ug/L  | 5.0          | 0.43  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 208-96-8   |      |
| Anthracene                                                                        | ND      | ug/L  | 5.0          | 0.38  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 120-12-7   |      |
| Benidine                                                                          | ND      | ug/L  | 50.0         | 0.38  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 92-87-5    | M1   |
| Benzo(a)anthracene                                                                | ND      | ug/L  | 5.0          | 0.44  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 56-55-3    |      |
| Benzo(a)pyrene                                                                    | ND      | ug/L  | 5.0          | 0.46  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 50-32-8    |      |
| Benzo(b)fluoranthene                                                              | ND      | ug/L  | 5.0          | 0.54  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                                              | ND      | ug/L  | 5.0          | 0.41  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 191-24-2   |      |
| Benzo(k)fluoranthene                                                              | ND      | ug/L  | 5.0          | 0.37  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 207-08-9   |      |
| 4-Bromophenylphenyl ether                                                         | ND      | ug/L  | 5.0          | 0.53  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 101-55-3   |      |
| Butylbenzylphthalate                                                              | ND      | ug/L  | 5.0          | 0.54  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                                           | ND      | ug/L  | 5.0          | 0.55  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 59-50-7    |      |
| bis(2-Chloroethoxy)methane                                                        | ND      | ug/L  | 5.0          | 0.45  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                                          | ND      | ug/L  | 6.0          | 0.45  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 111-44-4   |      |
| bis(2-Chloroisopropyl) ether                                                      | ND      | ug/L  | 6.0          | 0.37  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 39638-32-9 |      |
| 2-Chloronaphthalene                                                               | ND      | ug/L  | 5.0          | 0.32  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 91-58-7    |      |
| 2-Chlorophenol                                                                    | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                                        | ND      | ug/L  | 5.0          | 0.35  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 7005-72-3  |      |
| Chrysene                                                                          | ND      | ug/L  | 5.0          | 0.43  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                                             | ND      | ug/L  | 5.0          | 0.32  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 53-70-3    |      |
| 3,3'-Dichlorobenzidine                                                            | ND      | ug/L  | 20.0         | 0.64  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 91-94-1    |      |
| 2,4-Dichlorophenol                                                                | ND      | ug/L  | 5.0          | 0.29  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 120-83-2   |      |
| Diethylphthalate                                                                  | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 84-66-2    |      |
| 2,4-Dimethylphenol                                                                | ND      | ug/L  | 5.0          | 0.26  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 105-67-9   |      |
| Dimethylphthalate                                                                 | ND      | ug/L  | 5.0          | 0.37  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 131-11-3   |      |
| Di-n-butylphthalate                                                               | 1.6J    | ug/L  | 5.0          | 0.33  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol                                                        | ND      | ug/L  | 25.0         | 2.0   | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 534-52-1   |      |
| 2,4-Dinitrophenol                                                                 | ND      | ug/L  | 50.0         | 0.42  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 51-28-5    |      |
| 2,4-Dinitrotoluene                                                                | ND      | ug/L  | 6.0          | 0.50  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 121-14-2   |      |
| 2,6-Dinitrotoluene                                                                | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 606-20-2   |      |
| Di-n-octylphthalate                                                               | ND      | ug/L  | 5.0          | 0.27  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate                                                        | 1.1J    | ug/L  | 5.0          | 0.64  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 117-81-7   |      |

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## ANALYTICAL RESULTS

Project: SHOAL EFFLUENT YEARLY 8/8/12

Pace Project No.: 60126860

Sample: SHOAL-EFFLUENT (YEARLY'S) C2 Lab ID: 60126860001 Collected: 08/08/12 07:30 Received: 08/09/12 04:10 Matrix: Water

| Parameters                                                             | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>625 MSSV</b> Analytical Method: EPA 625 Preparation Method: EPA 625 |         |       |              |       |    |                |                |            |      |
| Fluoranthene                                                           | ND      | ug/L  | 5.0          | 0.40  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 206-44-0   |      |
| Fluorene                                                               | ND      | ug/L  | 5.0          | 0.38  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 86-73-7    |      |
| Hexachloro-1,3-butadiene                                               | ND      | ug/L  | 5.0          | 0.48  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 87-68-3    |      |
| Hexachlorobenzene                                                      | ND      | ug/L  | 5.0          | 0.55  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 118-74-1   |      |
| Hexachlorocyclopentadiene                                              | ND      | ug/L  | 5.0          | 4.0   | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 77-47-4    |      |
| Hexachloroethane                                                       | ND      | ug/L  | 5.0          | 0.44  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene                                                 | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 193-39-5   |      |
| Isophorone                                                             | ND      | ug/L  | 5.0          | 0.28  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 78-59-1    |      |
| Naphthalene                                                            | ND      | ug/L  | 5.0          | 0.40  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 91-20-3    |      |
| Nitrobenzene                                                           | ND      | ug/L  | 5.0          | 0.29  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 98-95-3    |      |
| 2-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 0.30  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 88-75-5    |      |
| 4-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 0.45  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 100-02-7   |      |
| N-Nitrosodimethylamine                                                 | ND      | ug/L  | 5.0          | 0.55  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine                                             | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 621-64-7   |      |
| N-Nitrosodiphenylamine                                                 | ND      | ug/L  | 5.0          | 0.42  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 86-30-6    |      |
| Pentachlorophenol                                                      | ND      | ug/L  | 5.0          | 0.46  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 87-86-5    |      |
| Phenanthrene                                                           | ND      | ug/L  | 5.0          | 0.46  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 85-01-8    |      |
| Phenol                                                                 | ND      | ug/L  | 5.0          | 0.30  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 108-95-2   |      |
| Pyrene                                                                 | ND      | ug/L  | 5.0          | 0.44  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene                                                 | ND      | ug/L  | 5.0          | 0.41  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 120-82-1   |      |
| 2,4,6-Trichlorophenol                                                  | ND      | ug/L  | 5.0          | 2.0   | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 88-06-2    |      |
| <b>Surrogates</b>                                                      |         |       |              |       |    |                |                |            |      |
| Nitrobenzene-d5 (S)                                                    | 59 %    |       | 32-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)                                                   | 67 %    |       | 36-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 321-60-8   |      |
| Terphenyl-d14 (S)                                                      | 83 %    |       | 44-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 1718-51-0  |      |
| Phenol-d6 (S)                                                          | 20 %    |       | 12-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 13127-88-3 |      |
| 2-Fluorophenol (S)                                                     | 30 %    |       | 18-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 367-12-4   |      |
| 2,4,6-Tribromophenol (S)                                               | 80 %    |       | 39-119       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 118-79-6   |      |
| <b>624 Volatile Organics LowLevel</b> Analytical Method: EPA 624 Low   |         |       |              |       |    |                |                |            |      |
| 1,2-Dichloroethane                                                     | ND      | ug/L  | 1.0          | 0.090 | 1  |                | 08/14/12 01:03 | 107-06-2   |      |
| 1,1,1-Trichloroethane                                                  | ND      | ug/L  | 1.0          | 0.090 | 1  |                | 08/14/12 01:03 | 71-55-6    |      |
| 1,1,2-Trichloroethane                                                  | ND      | ug/L  | 1.0          | 0.19  | 1  |                | 08/14/12 01:03 | 79-00-5    |      |
| <b>Surrogates</b>                                                      |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)                                               | 95 %    |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 460-00-4   |      |
| Dibromofluoromethane (S)                                               | 100 %   |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 1868-53-7  |      |
| Toluene-d8 (S)                                                         | 102 %   |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)                                              | 102 %   |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 17060-07-0 |      |
| Preservation pH                                                        | 1.0     |       | 1.0          | 1.0   | 1  |                | 08/14/12 01:03 |            |      |
| <b>350.1 Ammonia</b> Analytical Method: EPA 350.1                      |         |       |              |       |    |                |                |            |      |
| Nitrogen, Ammonia                                                      | 0.13    | mg/L  | 0.10         | 0.016 | 1  |                | 08/20/12 11:12 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b> Analytical Method: EPA 420.1       |         |       |              |       |    |                |                |            |      |
| Phenolics, Total Recoverable                                           | ND      | mg/L  | 0.050        | 0.011 | 1  |                | 08/14/12 15:32 |            |      |

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## ANALYTICAL RESULTS

Project: SHOAL EFFLUENT YEARLY 8/8/12  
Pace Project No.: 60126860

**Sample: SHOAL-EFFLUENT (YEARLY'S) C2**      **Lab ID: 60126860001**      Collected: 08/08/12 07:30      Received: 08/09/12 04:10      Matrix: Water

| Parameters                                                    | Results | Units | Report Limit | MDL    | DF | Prepared | Analyzed       | CAS No. | Qual |
|---------------------------------------------------------------|---------|-------|--------------|--------|----|----------|----------------|---------|------|
| <b>4500CNE Cyanide, Total</b> Analytical Method: SM 4500-CN-E |         |       |              |        |    |          |                |         |      |
| Cyanide                                                       | 0.0056  | mg/L  | 0.0050       | 0.0021 | 1  |          | 08/15/12 13:25 | 57-12-5 | B    |

**Sample: ACUTE WET TEST**      **Lab ID: 60126860002**      Collected: 08/08/12 07:30      Received: 08/08/12 14:20      Matrix: Water

| Parameters                                                | Results  | Units | Report Limit | MDL | DF | Prepared | Analyzed       | CAS No. | Qual |
|-----------------------------------------------------------|----------|-------|--------------|-----|----|----------|----------------|---------|------|
| <b>Acute Toxicity</b> Analytical Method: EPA 821/R-02/012 |          |       |              |     |    |          |                |         |      |
| Toxicity, Acute                                           | Complete |       | 1.0          | 1.0 | 1  |          | 08/10/12 14:10 |         |      |

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Water Protection Program

ANALYTICAL RESULTS

Project: Shoal Effluent Yearly

Pace Project No.: 60201970

Sample: YEARLY SHOAL EFFLUENT-C2 Lab ID: 60201970001 Collected: 09/02/15 08:00 Received: 09/02/15 19:35 Matrix: Water

| Parameters                            | Results | Units | Report Limit | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| <b>624 Volatile Organics LowLevel</b> |         |       |              |       |    |          |                |            |      |
| Analytical Method: EPA 624 Low        |         |       |              |       |    |          |                |            |      |
| 1,1-Dichloroethene                    | ND      | ug/L  | 1.0          | 0.087 | 1  |          | 09/11/15 19:06 | 75-35-4    |      |
| 1,1,1-Trichloroethane                 | ND      | ug/L  | 1.0          | 0.12  | 1  |          | 09/11/15 19:06 | 71-55-6    |      |
| 1,1,2-Trichloroethane                 | ND      | ug/L  | 1.0          | 0.15  | 1  |          | 09/11/15 19:06 | 79-00-5    |      |
| <b>Surrogates</b>                     |         |       |              |       |    |          |                |            |      |
| 4-Bromofluorobenzene (S)              | 98      | %     | 80-120       |       | 1  |          | 09/11/15 19:06 | 460-00-4   |      |
| Toluene-d8 (S)                        | 100     | %     | 80-120       |       | 1  |          | 09/11/15 19:06 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)             | 95      | %     | 80-120       |       | 1  |          | 09/11/15 19:06 | 17060-07-0 |      |
| Preservation pH                       | 1.0     |       | 1.0          | 1.0   | 1  |          | 09/11/15 19:06 |            |      |

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### QUALITY CONTROL DATA

Project: Shoal Effluent Yearly  
Pace Project No.: 60201970

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| QC Batch: MSV/71656                 | Analysis Method: EPA 624 Low            |
| QC Batch Method: EPA 624 Low        | Analysis Description: 624 MSV Low Level |
| Associated Lab Samples: 60201970001 |                                         |

METHOD BLANK: 1631572 Matrix: Water  
Associated Lab Samples: 60201970001

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | ND           | 1.0             | 09/11/15 15:32 |            |
| 1,1,2-Trichloroethane     | ug/L  | ND           | 1.0             | 09/11/15 15:32 |            |
| 1,1-Dichloroethene        | ug/L  | ND           | 1.0             | 09/11/15 15:32 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 96           | 80-120          | 09/11/15 15:32 |            |
| 4-Bromofluorobenzene (S)  | %     | 98           | 80-120          | 09/11/15 15:32 |            |
| Toluene-d8 (S)            | %     | 101          | 80-120          | 09/11/15 15:32 |            |

LABORATORY CONTROL SAMPLE: 1631573

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 18.0       | 90        | 67-129       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 17.5       | 87        | 67-124       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 16.0       | 80        | 67-128       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 99        | 80-120       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 99        | 80-120       |            |
| Toluene-d8 (S)            | %     |             |            | 101       | 80-120       |            |

MATRIX SPIKE SAMPLE: 1631574

| Parameter                 | Units | 60201970001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | ND                 | 20          | 19.9      | 99       | 52-155       |            |
| 1,1,2-Trichloroethane     | ug/L  | ND                 | 20          | 17.9      | 90       | 52-143       |            |
| 1,1-Dichloroethene        | ug/L  | ND                 | 20          | 19.0      | 95       | 38-153       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 98       | 80-120       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 96       | 80-120       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 103      | 80-120       |            |
| Preservation pH           |       | 1.0                |             | 1.0       |          |              |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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**MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL**

|                              |                           |                    |
|------------------------------|---------------------------|--------------------|
| FACILITY NAME<br>Shoal Creek | PERMIT NO.<br>MO- 0104906 | OUTFALL NO.<br>001 |
|------------------------------|---------------------------|--------------------|

**PART E – TOXICITY TESTING DATA**
**17. TOXICITY TESTING DATA**

Refer to the APPLICATION OVERVIEW to determine whether Part E applies to the treatment works.

Publicly owned treatment works, or POTWs, meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points.

- A. POTWs with a design flow rate greater than or equal to 1 million gallons per day
- B. POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403)
- C. POTWs required by the permitting authority to submit data for these parameters
  - At a minimum, these results must include quarterly testing for a 12-month period within the past one year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute or chronic toxicity, depending on the range of receiving water dilution. Do not include information about combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
  - If EPA methods were not used, report the reason for using alternative methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the application overview for directions on which other sections of the form to complete.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years: \_\_\_\_\_ chronic   X   acute

Complete the following chart for the last three whole effluent toxicity tests. Allow one column per test. Copy this page if more than three tests are being reported.

|                                                                                                                 | Most Recent                | 2 <sup>ND</sup> Most Recent | 3 <sup>RD</sup> Most Recent |
|-----------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|-----------------------------|
| <b>A. Test Information</b>                                                                                      |                            |                             |                             |
| Test Method Number                                                                                              | 2000/2002                  | 2000/2002                   | 2000/2002                   |
| Final Report Number                                                                                             | 60200398                   | 60175707                    | 60125407                    |
| Outfall Number                                                                                                  | 001                        | 001                         | 001                         |
| Dates Sample Collected                                                                                          | 8-12-2015                  | 8-13-2014                   | 8-08-2012                   |
| Date Test Started                                                                                               | 8-12-2015                  | 8-13-2014                   | 8-08-2012                   |
| Duration                                                                                                        | 48 hours                   | 48 hours                    | 48 hours                    |
| <b>B. Toxicity Test Methods Followed</b>                                                                        |                            |                             |                             |
| Manual Title                                                                                                    | see attachment             | see attachment              | see attachment              |
| Edition Number and Year of Publication                                                                          | 2002                       | 2002                        | 2002                        |
| Page Number(s)                                                                                                  | entire document            | entire document             | entire document             |
| <b>C. Sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used</b> |                            |                             |                             |
| 24-Hour Composite                                                                                               | X                          | X                           | X                           |
| Grab                                                                                                            |                            |                             |                             |
| <b>D. Indicate where the sample was taken in relation to disinfection (Check all that apply for each)</b>       |                            |                             |                             |
| Before Disinfection                                                                                             | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| After Disinfection                                                                                              | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| After Dechlorination                                                                                            | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| <b>E. Describe the point in the treatment process at which the sample was collected</b>                         |                            |                             |                             |
| Sample Was Collected:                                                                                           | C-2 Effluent               | C-2 Effluent                | C-2 Effluent                |
| <b>F. Indicate whether the test was intended to assess chronic toxicity, acute toxicity, or both</b>            |                            |                             |                             |
| Chronic Toxicity                                                                                                | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| Acute Toxicity                                                                                                  | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| <b>G. Provide the type of test performed</b>                                                                    |                            |                             |                             |
| Static                                                                                                          | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| Static-renewal                                                                                                  | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| Flow-through                                                                                                    | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| <b>H. Source of dilution water. If laboratory water, specify type; if receiving water, specify source</b>       |                            |                             |                             |
| Laboratory Water                                                                                                | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| Receiving Water                                                                                                 | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |









MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM

**WHOLE EFFLUENT TOXICITY (WET) TEST REPORT**

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

RECEIVED

JUL 18 2016

Water Protection Program

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

|                                                  |  |                                                                                                             |  |
|--------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| FACILITY NAME                                    |  | DATE AND TIME COLLECTED                                                                                     |  |
|                                                  |  | EFFLUENT _____ UPSTREAM _____                                                                               |  |
| PERMIT NUMBER                                    |  | PERMIT OUTFALL NUMBER                                                                                       |  |
|                                                  |  |                                                                                                             |  |
| COLLECTOR'S NAME                                 |  |                                                                                                             |  |
|                                                  |  |                                                                                                             |  |
| RECEIVING STREAM COLLECTION SITE AND DESCRIPTION |  |                                                                                                             |  |
|                                                  |  |                                                                                                             |  |
| PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC)    |  | EFFLUENT SAMPLE TYPE (CHECK ONE)                                                                            |  |
|                                                  |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| SAMPLE NUMBER                                    |  | UPSTREAM SAMPLE TYPE (CHECK ONE)                                                                            |  |
| EFFLUENT _____ UPSTREAM _____                    |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR  |  | PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR                                                             |  |
| CHLORINE _____ mg/L                              |  | AMMONIA _____ mg/L                                                                                          |  |

**PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY**

|                                                                                                                     |  |                                                                                        |                                                                        |
|---------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| PERFORMING LABORATORY                                                                                               |  | TEST TYPE                                                                              |                                                                        |
| PACE ANALYTICAL SERVICES                                                                                            |  | Acute                                                                                  |                                                                        |
| FINAL REPORT NUMBER                                                                                                 |  | TEST DURATION                                                                          |                                                                        |
| 60200398                                                                                                            |  | 48 HOURS                                                                               |                                                                        |
| DATE OF LAST REFERENCE TOXICANT TESTING                                                                             |  | TEST METHOD                                                                            |                                                                        |
| 7/22/15                                                                                                             |  | EPA 2000 AND 2002                                                                      |                                                                        |
| DATE AND TIME SAMPLES RECEIVED AT LABORATORY                                                                        |  | TEST START DATE AND TIME                                                               | TEST END DATE AND TIME                                                 |
| 8/12/15 15:15                                                                                                       |  | 8/12/15 15:30                                                                          | 8/14/15 14:45                                                          |
| SAMPLE DECHLORINATED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO         |  | TEST ORGANISM #1 AND AGE                                                               | TEST ORGANISM #2 AND AGE                                               |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | DUBIA <24 HOURS                                                                        | FATHEAD 2 DAYS                                                         |
| SAMPLE FILTERED <sup>1</sup> PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | 90 PERCENT OR GREATER SURVIVAL IN                                                      | DILUTION WATER USED TO ACHIEVE AEC                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | SYNTHETIC CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |                                                                        |
| FILTER MESH SIEVE SIZE 2                                                                                            |  | EFFLUENT ORGANISM #1 PERCENT MORTALITY AT AEC                                          | EFFLUENT ORGANISM #2 PERCENT MORTALITY AT AEC                          |
|                                                                                                                     |  | 0                                                                                      | 0                                                                      |
| SAMPLE AERATED DURING TESTING?                                                                                      |  | UPSTREAM ORGANISM #1 PERCENT MORTALITY                                                 | UPSTREAM ORGANISM #2 PERCENT MORTALITY                                 |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                 |  |                                                                                        |                                                                        |
| pH ADJUSTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                    |  | TEST RESULT AT AEC FOR ORGANISM #1                                                     | TEST RESULT AT AEC FOR ORGANISM #2                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL                 | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

| PARAMETER                    | RESULT | METHOD       | WHEN ANALYZED |
|------------------------------|--------|--------------|---------------|
| Temperature °C               | 25     | SM 2550B     | 8/12/15       |
| pH Standard Units            | 7.73   | SM 4500-H+ B | 8/12/15       |
| Conductance µMols            | 705    | 82EPA 120.1  | 8/12/15       |
| Dissolved Oxygen mg/L        | 6.40   | SM 4500-O G  | 8/12/15       |
| Total Residual Chlorine mg/L | <.1    | SM 4500-CL G | 8/12/15       |
| Unionized Ammonia mg/L       |        |              |               |
| * Total Alkalinity mg/L      | 230    | SM 2320 B    | 8/12/15       |
| * Total Hardness mg/L        | 200    | SM2340 C     | 8/12/15       |

\* Recommended by EPA guidance, not a required analysis.

<sup>1</sup> Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack the test organisms.

<sup>2</sup> Filters shall have a sieve size of 60 microns or greater.





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM

**WHOLE EFFLUENT TOXICITY (WET) TEST REPORT**

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

|                                                  |  |                                                                                                             |  |
|--------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| FACILITY NAME:                                   |  | DATE AND TIME COLLECTED                                                                                     |  |
| PERMIT NUMBER                                    |  | EFFLUENT _____ UPSTREAM _____                                                                               |  |
| COLLECTOR'S NAME                                 |  | PERMIT OUTFALL NUMBER                                                                                       |  |
| RECEIVING STREAM COLLECTION SITE AND DESCRIPTION |  |                                                                                                             |  |
| PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC)    |  | EFFLUENT SAMPLE TYPE (CHECK ONE)                                                                            |  |
| SAMPLE NUMBER                                    |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| EFFLUENT _____ UPSTREAM _____                    |  | UPSTREAM SAMPLE TYPE (CHECK ONE)                                                                            |  |
| PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR  |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| CHLORINE _____ mg/L                              |  | PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR                                                             |  |
|                                                  |  | AMMONIA _____ mg/L                                                                                          |  |

**PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY**

|                                                                                                              |  |                                                                                        |                                                                        |
|--------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| PERFORMING LABORATORY                                                                                        |  | TEST TYPE                                                                              |                                                                        |
| PACE ANALYTICAL SERVICES                                                                                     |  | Acute                                                                                  |                                                                        |
| FINAL REPORT NUMBER                                                                                          |  | TEST DURATION                                                                          |                                                                        |
| 60175707                                                                                                     |  | 48 HOURS                                                                               |                                                                        |
| DATE OF LAST REFERENCE TOXICANT TESTING                                                                      |  | TEST METHOD                                                                            |                                                                        |
| 8/13/14                                                                                                      |  | EPA 2000 AND 2002                                                                      |                                                                        |
| DATE AND TIME SAMPLES RECEIVED AT LABORATORY                                                                 |  | TEST START DATE AND TIME                                                               | TEST END DATE AND TIME                                                 |
| 8/13/14 14:30                                                                                                |  | 8/13/14 15:15                                                                          | 8/15/14 00                                                             |
| SAMPLE DECONTAMINATED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | TEST ORGANISM #1 AND AGE                                                               | TEST ORGANISM #2 AND AGE                                               |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | DUBIA <24 HOURS                                                                        | FATHEAD 8 DAYS                                                         |
| SAMPLE FILTERED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO       |  | 90 PERCENT OR GREATER SURVIVAL IN                                                      | DILUTION WATER USED TO ACHIEVE AEC                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | SYNTHETIC CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |                                                                        |
| FILTER MESH SIEVE SIZE?                                                                                      |  | EFFLUENT ORGANISM #1 PERCENT MORTALITY AT AEC                                          | EFFLUENT ORGANISM #2 PERCENT MORTALITY AT AEC                          |
|                                                                                                              |  | 0                                                                                      | 0                                                                      |
| SAMPLE AERATED DURING TESTING?                                                                               |  | UPSTREAM ORGANISM #1 PERCENT MORTALITY                                                 | UPSTREAM ORGANISM #2 PERCENT MORTALITY                                 |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                          |  |                                                                                        |                                                                        |
| pH ADJUSTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                             |  | TEST RESULT AT AEC FOR ORGANISM #1                                                     | TEST RESULT AT AEC FOR ORGANISM #2                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL                 | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

| PARAMETER                    | RESULT | METHOD       | WHEN ANALYZED |
|------------------------------|--------|--------------|---------------|
| Temperature °C               | 25     | SM 2550B     | 8/13/14       |
| pH Standard Units            | 7.48   | SM 4500-H+ B | 8/13/14       |
| Conductance µMhos            | 731    | EPA 120.1    | 8/13/14       |
| Dissolved Oxygen mg/L        | 6.90   | SM 4500-O G  | 8/13/14       |
| Total Residual Chlorine mg/L | <.1    | SM 4500-CL G | 8/13/14       |
| Unionized Ammonia mg/L       |        |              |               |
| * Total Alkalinity mg/L      | 136    | SM 2320 B    | 8/13/14       |
| * Total Hardness mg/L        | 134    | SM2340 B     | 8/13/14       |

\* Recommended by EPA guidance, not a required analysis

<sup>1</sup> Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack the test organisms

<sup>2</sup> Filters shall have a sieve size of 60 microns or greater





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM

**WHOLE EFFLUENT TOXICITY (WET) TEST REPORT**

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

|                                                  |  |                                                                                                             |  |
|--------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| FACILITY NAME                                    |  | DATE AND TIME COLLECTED                                                                                     |  |
| PERMIT NUMBER                                    |  | EFFLUENT _____ UPSTREAM _____                                                                               |  |
| COLLECTOR'S NAME                                 |  | PERMIT OUTFALL NUMBER                                                                                       |  |
| RECEIVING STREAM COLLECTION SITE AND DESCRIPTION |  |                                                                                                             |  |
| PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC)    |  | EFFLUENT SAMPLE TYPE (CHECK ONE)                                                                            |  |
| SAMPLE NUMBER                                    |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| EFFLUENT _____ UPSTREAM _____                    |  | UPSTREAM SAMPLE TYPE (CHECK ONE)                                                                            |  |
| PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR  |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| CHLORINE _____ mg/L                              |  | PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR                                                             |  |
|                                                  |  | AMMONIA _____ mg/L                                                                                          |  |

**PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY**

|                                                                                                              |  |                                                                                        |                                                                        |
|--------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| PERFORMING LABORATORY                                                                                        |  | TEST TYPE                                                                              |                                                                        |
| PACE ANALYTICAL SERVICES                                                                                     |  | Acute                                                                                  |                                                                        |
| FINAL REPORT NUMBER                                                                                          |  | TEST DURATION                                                                          |                                                                        |
| 60125407                                                                                                     |  | 48 HOURS                                                                               |                                                                        |
| DATE OF LAST REFERENCE TOXICANT TESTING                                                                      |  | TEST METHOD                                                                            |                                                                        |
| 8/1/12                                                                                                       |  | EPA 2000 AND 2002                                                                      |                                                                        |
| DATE AND TIME SAMPLE RECEIVED AT LABORATORY                                                                  |  | TEST START DATE AND TIME                                                               | TEST END DATE AND TIME                                                 |
| 8/8/12 14:20                                                                                                 |  | 8/8/12 15:00                                                                           | 8/10/12 14:10                                                          |
| SAMPLE DECONTAMINATED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | TEST ORGANISM #1 AND AGE                                                               | TEST ORGANISM #2 AND AGE                                               |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | DUBIA <24 HOURS                                                                        | FATHEAD 2 DAYS                                                         |
| SAMPLE FILTERED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO       |  | 90 PERCENT OR GREATER SURVIVAL IN                                                      | DILUTION WATER USED TO ACHIEVE AEC                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | SYNTHETIC CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |                                                                        |
| FILTER MESH SIZE: 2                                                                                          |  | EFFLUENT ORGANISM #1 PERCENT MORTALITY AT AEC                                          | EFFLUENT ORGANISM #2 PERCENT MORTALITY AT AEC                          |
|                                                                                                              |  | 0                                                                                      | 0                                                                      |
| SAMPLE AERATED DURING TESTING?                                                                               |  | UPSTREAM ORGANISM #1 PERCENT MORTALITY                                                 | UPSTREAM ORGANISM #2 PERCENT MORTALITY                                 |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                          |  |                                                                                        |                                                                        |
| pH ADJUSTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                             |  | TEST RESULT AT AEC FOR ORGANISM #1                                                     | TEST RESULT AT AEC FOR ORGANISM #2                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL                 | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

| PARAMETER                    | RESULT | METHOD       | WHEN ANALYZED |
|------------------------------|--------|--------------|---------------|
| Temperature C                | 25     | SM 2550B     | 8/8/12        |
| pH Standard Units            | 7.27   | SM 4500-H+ B | 8/8/12        |
| Conductance µMhos            | 684    | EPA 120.1    | 8/8/12        |
| Dissolved Oxygen mg/L        | 6.70   | SM 4500-O G  | 8/8/12        |
| Total Residual Chlorine mg/L | <1     | SM 4500-CL G | 8/8/12        |
| Unionized Ammonia mg/L       |        |              |               |
| * Total Alkalinity mg/L      | 114    | SM 2320 B    | 8/8/12        |
| * Total Hardness mg/L        | 208    | SM2340 B     | 8/8/12        |

\* Recommended by EPA guidance, not a required analysis

Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack the test organisms.  
2 Filters shall have a sieve size of 60 microns or greater.



**MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL**

FACILITY NAME

Shoal Creek

PERMIT NO.

MO- 0104906

OUTFALL NO.

001

**PART F – INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES**

Refer to the APPLICATION OVERVIEW to determine whether Part F applies to the treatment works.

**18. GENERAL INFORMATION****18.1** Does the treatment works have, or is it subject to, an approved pretreatment program?☒ Yes☐ No**18.2** Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works:Number of non-categorical SIUs 1Number of CIUs 0**19. INDUSTRIES CONTRIBUTING MORE THAN 5 PERCENT OF THE ACTUAL FLOW TO THE FACILITY OR OTHER SIGNIFICANT INDUSTRIAL USERS INFORMATION**

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, provide the information requested for each. Submit additional pages as necessary.

NAME

Rembrandt Foods

MAILING ADDRESS

409 N Wood St

CITY

Neosho

STATE

MO

ZIP CODE

64850

**19.1** Describe all of the industrial processes that affect or contribute to the SIU's discharge  
egg pasteurization**19.2** Describe all of the principle processes and raw materials that affect or contribute to the SIU's discharge.

Principal Product(s): egg pasteurization

Raw Material(s): egg

**19.3** Flow Rate

a. PROCESS WASTEWATER FLOW RATE. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day, or gpd, and whether the discharge is continuous or intermittent.

33,500 gpd ☐ Continuous ☒ Intermittent

b. NON-PROCESS WASTEWATER FLOW RATE. Indicate the average daily volume of non-process wastewater discharged into the collection system in gallons per day, or gpd, and whether the discharge is continuous or intermittent.

33,500 gpd ☐ Continuous ☒ Intermittent**19.4** Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local Limits

☐ Yes☒ No

b. Categorical Pretreatment Standards

☐ Yes☒ No

If subject to categorical pretreatment standards, which category and subcategory?

**19.5** Problems at the treatment works attributed to waste discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?☐ Yes☒ No

If Yes, describe each episode



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|
| <b>MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                    |
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PERMIT NO.<br>MO- 01104906 | OUTFALL NO.<br>001 |
| <b>PART F – INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                    |
| <b>20. RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                    |
| <b>20.1</b> Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                |                            |                    |
| <b>20.2</b> Method by which RCRA waste is received. (Check all that apply)<br><input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated Pipe                                                                                                                                                                                                                                                                                                                                                                                   |                            |                    |
| <b>20.3</b> Waste Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                    |
| EPA Hazardous Waste Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Amount (volume or mass)    | Units              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
| <b>21. CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
| <b>21.1</b> Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Provide a list of sites and the requested information for each current and future site.                                                                                                                                                                                                                                                                      |                            |                    |
| <b>21.2</b> Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).<br><br><br><br><br><br><br><br><br><br>                                                                                                                                                                                                                                                                                                                                           |                            |                    |
| <b>21.3</b> List the hazardous constituents that are received (or are expected to be received). Included data on volume and concentration, if known. (Attach additional sheets if necessary)<br><br><br><br><br><br><br><br><br><br>                                                                                                                                                                                                                                                                                                                                 |                            |                    |
| <b>21.4</b> Waste Treatment<br>a. Is this waste treated (or will it be treated) prior to entering the treatment works?<br><input type="checkbox"/> Yes <input type="checkbox"/> No<br>If Yes, describe the treatment (provide information about the removal efficiency):<br><br><br><br><br><br><br><br><br><br>b. Is the discharge (or will the discharge be) continuous or intermittent?<br><input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent<br>If intermittent, describe the discharge schedule:<br><br><br><br><br><br><br><br><br><br> |                            |                    |
| <b>END OF PART F</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                    |
| <b>REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                    |



**MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL**FACILITY NAME  
Shoal CreekPERMIT NO.  
MO- 0104906OUTFALL NO.  
001**PART G – COMBINED SEWER SYSTEMS**

Refer to the APPLICATION OVERVIEW to determine whether Part G applies to the treatment works.

**22. GENERAL INFORMATION****22.1 System Map.** Provide a map indicating the following: (May be included with basic application information.)

- A. All CSO Discharges.
- B. Sensitive Use Areas Potentially Affected by CSOs. (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems and Outstanding Natural Resource Waters.)
- C. Waters that Support Threatened and Endangered Species Potentially Affected by CSOs.

**22.2 System Diagram.** Provide a diagram, either in the map provided above or on a separate drawing, of the Combined Sewer Collection System that includes the following information:

- A. Locations of Major Sewer Trunk Lines, Both Combined and Separate Sanitary.
- B. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer System.
- C. Locations of In-Line or Off-Line Storage Structures.
- D. Locations of Flow-Regulating Devices.
- E. Locations of Pump Stations.

**22.3** Percent of collection system that is combined sewer 0%**22.4** Population served by combined sewer collection system**22.5** Name of any satellite community with combined sewer collection system**23. CSO OUTFALLS. COMPLETE THE FOLLOWING ONCE FOR EACH CSO DISCHARGE POINT****23.1** Description of Outfall

- a. Outfall Number
- b. Location

c. Distance from Shore (if applicable) \_\_\_\_\_ ft

d. Depth Below Surface (if applicable) \_\_\_\_\_ ft

e. Which of the following were monitored during the last year for this CSO?

- ☐ Rainfall
- ☐ CSO Pollutant Concentrations
- ☐ CSO
- ☐ CSO Flow Volume
- ☐ Receiving Water Quality

f. How many storm events were monitored last year?

**23.2** CSO Events

- a. Give the Number of CSO Events in the Last Year      Events      ☐ Actual      ☐ Approximate
- b.      Give the Average Duration Per CSO Event
- Hours      ☐ Actual      ☐ Approximate
- c.      Give the Average Volume Per CSO Event
- Million Gallons      ☐ Actual      ☐ Approximate
- d. Give the minimum rainfall that caused a CSO event in the last year \_\_\_\_\_ inches of rainfall

**23.3** Description of Receiving Waters

- a. Name of Receiving Water
- b. Name of Watershed/River/Stream System
- c. U.S. Soil Conservation Service 14-Digit Watershed Code (If Known)
- d. Name of State Management/River Basin
- e. U.S. Geological Survey 8- Digit Hydrologic Cataloging Unit Code (If Known)

**23.4** CSO Operations

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shellfish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable state water quality standard.)

**END OF PART G****REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.**





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>HOAL CREEK WWTP |                   |                        |             |                 |            | CITY<br>NEOSHO               |          |                |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
|-------------------------------------|-------------------|------------------------|-------------|-----------------|------------|------------------------------|----------|----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| OR THE MONTH OF<br>April-14         |                   | OUTFALL NUMBER<br>#001 |             |                 |            | PERMIT NUMBER<br>MO# 0104906 |          |                |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| INFLUENT                            |                   |                        |             |                 |            | EFFLUENT                     |          |                |            |              |                                             |       |      |         |      |
| DAY                                 | FLOW:<br>MGD EFF. | PH UNITS               | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                     | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                   | 1.0               | 7.65                   |             |                 | 14         | 7.38                         |          |                | 14         | 5.82         |                                             |       |      |         |      |
| 2                                   | 1.4               | 7.60                   | 248.0       | 283.0           | 16.4       | 7.37                         | 12.2     | 9.0            | 16.2       | 5.90         | 150.0                                       |       |      |         |      |
| 3                                   | 1.0               | 7.64                   |             |                 | 19.0       | 7.40                         |          |                | 18.0       | 5.52         |                                             |       |      |         |      |
| 4                                   | 1.0               | 7.84                   |             |                 | 13.7       | 7.52                         |          |                | 14.4       | 5.86         |                                             |       |      |         |      |
| 5                                   | 0.8               | 7.61                   |             |                 | 13.4       | 7.35                         |          |                | 13.6       | 5.09         |                                             |       |      |         |      |
| 6                                   | 0.5               | 7.7                    |             |                 | 14.1       | 7.19                         |          |                | 15.6       | 4.52         |                                             |       |      |         |      |
| 7                                   | 1.1               | 7.69                   |             |                 | 17.0       | 7.35                         |          |                | 15.0       | 4.60         |                                             |       |      |         |      |
| 8                                   | 1.0               | 7.66                   |             |                 | 14.3       | 7.42                         |          |                | 14.6       | 4.77         |                                             |       |      |         |      |
| 9                                   | 1.1               | 7.58                   | 446.0       | 167.0           | 19.3       | 7.33                         | 14.6     | 20.0           | 16.4       | 5.00         | 75.0                                        |       |      |         |      |
| 10                                  | 1.0               | 7.63                   |             |                 | 17.5       | 7.33                         |          |                | 17.0       | 4.70         |                                             |       |      |         |      |
| 11                                  | 1.5               | 7.62                   |             |                 | 15.4       | 7.42                         |          |                | 15.6       | 4.64         |                                             |       |      |         |      |
| 12                                  | 0.9               | 7.59                   |             |                 | 19.6       | 7.36                         |          |                | 18.6       | 3.86         |                                             |       |      |         |      |
| 13                                  | 0.7               | 7.60                   |             |                 | 18.5       | 7.42                         |          |                | 18.3       | 4.20         |                                             |       |      |         |      |
| 14                                  | 1.0               | 8.10                   |             |                 | 13.1       | 7.35                         |          |                | 15.0       | 4.46         |                                             |       |      |         |      |
| 15                                  | 1.0               | 7.65                   |             |                 | 17.1       | 7.37                         |          |                | 16.4       | 4.75         |                                             |       |      |         |      |
| 16                                  | 2.7               | 7.78                   | 191.0       | 78.0            | 16.3       | 7.40                         | 10.1     | 16.0           | 16.0       | 4.50         | 80.0                                        |       |      |         |      |
| 17                                  | 1.0               | 7.78                   |             |                 | 16.1       | 7.38                         |          |                | 16.2       | 3.92         |                                             |       |      |         |      |
| 18                                  | 1.0               | 7.83                   |             |                 | 16.8       | 7.37                         |          |                | 15.8       | 5.90         |                                             |       |      |         |      |
| 19                                  | 0.7               | 7.60                   |             |                 | 14.1       | 7.21                         |          |                | 14.7       | 7.38         |                                             |       |      |         |      |
| 20                                  | 2.0               | 7.66                   |             |                 | 16.7       | 7.19                         |          |                | 16.5       | 5.70         |                                             |       |      |         |      |
| 21                                  | 1.0               | 8.55                   |             |                 | 17.7       | 7.32                         |          |                | 18.7       | 4.05         |                                             |       |      |         |      |
| 22                                  | 1.4               | 8.44                   |             |                 | 18.1       | 7.36                         |          |                | 18.0       | 4.15         |                                             |       |      |         |      |
| 23                                  | 1.4               | 7.85                   | 1320.0      | 407.0           | 18.8       | 7.35                         | 13.8     | 7.0            | 17.7       | 3.15         | 100.0                                       |       |      |         |      |
| 24                                  | 1.0               | 8.16                   |             |                 | 18.2       | 7.32                         |          |                | 20.0       | 3.98         |                                             |       |      |         |      |
| 25                                  | 1.0               | 7.70                   |             |                 | 18.8       | 7.36                         |          |                | 19.0       | 4.78         |                                             |       |      |         |      |
| 26                                  | 1.7               | 7.58                   |             |                 | 17.4       | 7.35                         |          |                | 18.2       | 5.61         |                                             |       |      |         |      |
| 27                                  | 0.6               | 7.55                   |             |                 | 18.8       | 7.24                         |          |                | 19.6       | 4.78         |                                             |       |      |         |      |
| 28                                  | 1.5               | 7.60                   |             |                 | 19.6       | 7.29                         |          |                | 19.2       | 4.33         |                                             |       |      |         |      |
| 29                                  | 1.5               | 7.63                   |             |                 | 15.0       | 7.40                         |          |                | 16.0       | 5.75         |                                             |       |      |         |      |
| 30                                  | 1.3               | 7.60                   | 582.0       | 1050.0          | 16.2       | 7.40                         | 38.6     | 21.0           | 16.6       | 5.00         | 8.0                                         |       |      |         |      |
| 31                                  |                   |                        |             |                 |            |                              |          |                |            |              |                                             |       |      |         |      |
| 3. of Samp.                         | 30.0              | 30.0                   | 5.0         | 5.0             | 30.0       | 30.0                         | 5.0      | 5.0            | 30.0       | 30.0         | 5.0                                         |       |      |         |      |
| 4. of Samp.                         | 34.7              |                        | 2787.0      | 1985.0          | 501.0      | 220.5                        | 89.3     | 73.0           | 500.9      | 146.7        | 413.0                                       |       |      |         |      |
| Monthly Avg.                        | 1.2               |                        | 557.4       | 397.0           |            |                              | 17.9     | 14.6           |            |              | 82.6                                        |       |      |         |      |
| Daily Max.                          | 2.7               | 8.6                    | 1320.0      | 1050.0          | 19.6       | 7.5                          | 38.6     | 21.0           | 20.0       | 7.4          | 150.0                                       |       |      |         |      |
| Daily Min.                          |                   | 7.6                    |             |                 | 13.1       | 7.2                          |          |                | 13.6       | 3.2          | 8.0                                         |       |      |         |      |
| Max 7/Avg.                          |                   |                        |             |                 |            |                              |          |                |            |              |                                             |       |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

1780-1306 (6-03)



## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60200938

| Sample: SHOAL INFLUENT A1      Lab ID: 60200938001      Collected: 08/19/15 07:30      Received: 08/19/15 18:25      Matrix: Water |                                                               |       |              |     |    |                |                |         |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------|--------------|-----|----|----------------|----------------|---------|------|
| Parameters                                                                                                                         | Results                                                       | Units | Report Limit | MDL | DF | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b>                                                                                                | Analytical Method: SM 2540D                                   |       |              |     |    |                |                |         |      |
| Total Suspended Solids                                                                                                             | 120                                                           | mg/L  | 5.0          | 5.0 | 1  |                | 08/24/15 12:01 |         |      |
| <b>5210B BOD, 5 day</b>                                                                                                            | Analytical Method: SM 5210B      Preparation Method: SM 5210B |       |              |     |    |                |                |         |      |
| BOD, 5 day                                                                                                                         | 28.9                                                          | mg/L  | 2.0          | 2.0 | 1  | 08/20/15 11:42 | 08/25/15 11:12 |         | 1e   |

| Sample: SHOAL EFFLUENT C2      Lab ID: 60200938002      Collected: 08/19/15 08:00      Received: 08/19/15 18:25      Matrix: Water |                                                               |       |              |       |    |                |                |           |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------|--------------|-------|----|----------------|----------------|-----------|------|
| Parameters                                                                                                                         | Results                                                       | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>2540D Total Suspended Solids</b>                                                                                                | Analytical Method: SM 2540D                                   |       |              |       |    |                |                |           |      |
| Total Suspended Solids                                                                                                             | 128                                                           | mg/L  | 5.0          | 5.0   | 1  |                | 08/24/15 12:01 |           |      |
| <b>5210B BOD, 5 day</b>                                                                                                            | Analytical Method: SM 5210B      Preparation Method: SM 5210B |       |              |       |    |                |                |           |      |
| BOD, 5 day                                                                                                                         | 53.1                                                          | mg/L  | 2.0          | 2.0   | 1  | 08/20/15 11:45 | 08/25/15 11:16 |           |      |
| <b>350.1 Ammonia</b>                                                                                                               | Analytical Method: EPA 350.1                                  |       |              |       |    |                |                |           |      |
| Nitrogen, Ammonia                                                                                                                  | 3.1                                                           | mg/L  | 0.20         | 0.093 | 2  |                | 08/25/15 10:16 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                               |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
|-----------------------------------------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------------|-------|------|---------|------|
| OF FACILITY                                   |                   |          |             |                 |       | CITY          |          |                |            |              | COUNTY/REGION           |       |      |         |      |
| Creek WWTP                                    |                   |          |             |                 |       | NEOSHO        |          |                |            |              | SPRINGFIELD             |       |      |         |      |
| 1st MONTH OF                                  |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              | TYPE TREATMENT FACILITY |       |      |         |      |
| st-08 015                                     |                   |          |             |                 |       | MO# 0104906   |          |                |            |              | OXI-DATION DITCH        |       |      |         |      |
| OUTFALL NUMBER                                |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                         |       |      |         |      |
| #001                                          |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
|                                               | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100       | OTHER | RAIN | WEATHER | TIME |
| 1                                             | 1.6               | 7.38     |             |                 | 22.5  | 7.60          |          |                | 24.5       | 3.44         | in/Lab                  |       | 0.00 |         |      |
| 2                                             | 1.0               | 7.79     |             |                 | 23.4  | 7.59          |          |                | 25.0       | 3.60         | in                      |       | 0.00 |         |      |
| 3                                             | 1.2               | 7.94     |             |                 | 24.2  | 7.60          |          |                | 24.5       | 3.42         | house                   |       | 0.00 |         |      |
| 4                                             | 1.7               | 7.79     |             |                 | 24.4  | 7.58          |          |                | 24.7       | 3.56         |                         |       | 0.00 |         |      |
| 5                                             | 3.1               | 7.28     | 260.0       | 104.0           | 22.5  | 7.60          | 2.7      | 5.0            | 24.3       | 3.27         | 25.0                    |       | 0.43 |         |      |
| 6                                             | 1.9               | 7.79     |             |                 | 22.4  | 7.34          |          |                | 24.3       | 4.58         |                         |       | 0.26 |         |      |
| 7                                             | 1.0               | 7.39     |             |                 | 23.3  | 7.29          |          |                | 23.2       | 3.92         |                         |       | 0.00 |         |      |
| 8                                             | 1.3               | 8.17     |             |                 | 23.4  | 7.75          |          |                | 25.3       | 4.77         |                         |       | 0.00 |         |      |
| 9                                             | 1.1               | 7.43     |             |                 | 23.1  | 7.65          |          |                | 25.2       | 4.49         |                         |       | 0.00 |         |      |
| 10                                            | 1.6               | 7.34     |             |                 | 27.0  | 7.48          |          |                | 26.6       | 4.28         |                         |       | 0.16 |         |      |
| 11                                            | 1.4               | 7.51     |             |                 | 26.1  | 7.67          |          |                | 26.7       | 3.90         |                         |       | 0.10 |         |      |
| 12                                            | 2.6               | 7.41     | 520.0       | 294.0           | 26.5  | 7.63          | 4.2      | 9.0            | 26.0       | 4.75         | 80.0                    |       | 0.00 |         |      |
| 13                                            | 1.6               | 7.58     |             |                 | 27.2  | 7.52          |          |                | 26.8       | 3.84         |                         |       | 0.00 |         |      |
| 14                                            | 1.5               | 7.16     |             |                 | 26.6  | 7.61          |          |                | 26.7       | 6.50         |                         |       | 0.00 |         |      |
| 15                                            | 1.3               | 7.43     |             |                 | 23.2  | 7.58          |          |                | 23.7       | 5.48         |                         |       | 0.00 |         |      |
| 16                                            | 1.2               | 7.23     |             |                 | 23.5  | 7.66          |          |                | 23.7       | 3.72         |                         |       | 0.00 |         |      |
| 17                                            | 1.5               | 7.60     |             |                 | 23.2  | 7.51          |          |                | 24.5       | 3.05         |                         |       | 0.00 |         |      |
| 18                                            | 1.6               | 7.61     |             |                 | 23.5  | 7.58          |          |                | 24.6       | 4.82         |                         |       | 0.55 |         |      |
| 19                                            | 3.1               | 7.01     | 28.9        | 120.0           | 22.1  | 7.40          | 53.1     | 128.0          | 23.2       | 3.61         | 68.0                    |       | 3.70 |         |      |
| 20                                            | 2.9               | 7.20     |             |                 | 21.5  | 7.11          |          |                | 22.6       | 5.06         |                         |       | 0.10 |         |      |
| 21                                            | 2.7               | 7.39     |             |                 | 21.6  | 7.56          |          |                | 22.4       | 3.86         |                         |       | 0.00 |         |      |
| 22                                            | 2.4               | 7.68     |             |                 | 21.8  | 7.59          |          |                | 22.5       | 4.72         |                         |       | 0.18 |         |      |
| 23                                            | 4.3               | 7.19     |             |                 | 21.8  | 7.47          |          |                | 22.6       | 2.60         |                         |       | 1.18 |         |      |
| 24                                            | 3.4               | 7.28     |             |                 | 23.3  | 7.47          |          |                | 23.3       | 3.36         |                         |       | 0.00 |         |      |
| 25                                            | 2.2               | 7.34     | 307.0       | 365.0           | 22.3  | 7.44          | 2.0      | 5.0            | 23.0       | 2.53         | 10.0                    |       | 0.00 |         |      |
| 26                                            | 1.5               | 7.19     |             |                 | 20.1  | 7.55          |          |                | 21.3       | 3.55         |                         |       | 0.00 |         |      |
| 27                                            | 1.4               | 7.24     |             |                 | 21.1  | 7.51          |          |                | 22.3       | 5.44         |                         |       | 0.00 |         |      |
| 28                                            | 1.3               | 7.31     |             |                 | 21.1  | 7.53          |          |                | 22.2       | 6.45         |                         |       | 0.00 |         |      |
| 29                                            | 1.7               | 7.25     |             |                 | 21.2  | 7.55          |          |                | 22.4       | 6.50         |                         |       | 0.00 |         |      |
| 30                                            | 1.8               | 7.30     |             |                 | 21.1  | 7.55          |          |                | 22.3       | 6.20         |                         |       | 0.00 |         |      |
| 31                                            | 1.7               | 7.44     |             |                 | 22.3  | 7.56          |          |                | 22.7       | 5.68         |                         |       | 0.00 |         |      |
| Samp.                                         |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| Samp.                                         | 58.6              | 230.7    | 1115.9      | 883.0           | 717.3 | 233.5         | 62.0     | 147.0          |            | 135.0        |                         |       |      |         |      |
| / Avg.                                        | 3.3               |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                         |       |      |         |      |
| Max.                                          | 4.3               | 8.2      | 520.0       | 365.0           | 27.2  | 7.8           | 53.1     | 128.0          | 26.8       | 6.5          | 80.0                    |       |      |         |      |
| Min.                                          | 1.0               | 7.0      |             |                 | 20.1  | 7.1           |          |                | 21.3       | 2.5          | 10.0                    |       |      |         |      |
| Avg.                                          |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |                   |          |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |
|---------------------------------------------|-------------------|----------|-------------|-----------------|------------|-------------------------------------|----------|----------------|------------|--------------|-------------------|----------------------------------------------------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |                   |          |             |                 |            | CITY<br><b>NEOSHO</b>               |          |                |            |              |                   | COUNTY/REGION<br><b>SPRINGFIELD</b>                |      |         |      |
| FOR THE MONTH OF<br><b>December-13</b>      |                   |          |             |                 |            | PERMIT NUMBER<br><b>MO# 0104906</b> |          |                |            |              |                   | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |      |         |      |
| INFLUENT                                    |                   |          |             |                 |            | EFFLUENT                            |          |                |            |              |                   |                                                    |      |         |      |
| DAY                                         | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                            | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100 | SNOW                                               | RAIN | WEATHER | TIME |
| 1                                           | 1.2               | 6.97     |             |                 | 14.3       | 7.09                                |          |                | 13.1       | 2.69         |                   |                                                    |      |         |      |
| 2                                           | 1.1               | 7.03     |             |                 | 19.4       | 7.22                                |          |                | 16.8       | 3.55         |                   |                                                    |      |         |      |
| 3                                           | 1.5               | 7.38     |             |                 | 18.0       | 7.27                                |          |                | 16.4       | 3.20         |                   |                                                    |      |         |      |
| 4                                           | 1.6               | 7.37     | 142.0       | 146.0           | 12.3       | 7.18                                | 4.4      | 5.0            | 14.5       | 3.50         |                   |                                                    |      |         |      |
| 5                                           | 2.5               | 7.50     |             |                 | 13.1       | 7.32                                |          |                | 13.0       | 3.56         |                   |                                                    |      |         |      |
| 6                                           | 1.0               | 8.05     |             |                 | 12.7       | 7.35                                |          |                | 11.7       | 4.68         |                   | 0.45                                               | 5.0  |         |      |
| 7                                           | 1.4               | 7.67     |             |                 | 13.3       | 7.36                                |          |                | 11.6       | 4.78         |                   | 0.10                                               | 1.0  |         |      |
| 8                                           | 1.4               | 7.70     |             |                 | 14.2       | 7.31                                |          |                | 12.1       | 4.67         |                   |                                                    |      |         |      |
| 9                                           | 1.1               | 7.81     |             |                 | 11.3       | 7.40                                |          |                | 13.6       | 3.88         |                   |                                                    |      |         |      |
| 10                                          | 2.2               | 7.74     |             |                 | 11.6       | 7.17                                |          |                | 10.0       | 6.25         |                   | 1.90                                               | 3.0  |         |      |
| 11                                          | 1.0               | 7.52     |             |                 | 12.5       | 7.15                                |          |                | 10.4       | 5.90         |                   |                                                    |      |         |      |
| 12                                          | 1.0               | 7.60     |             |                 | 13.3       | 7.27                                |          |                | 11.7       | 5.30         |                   |                                                    |      |         |      |
| 13                                          | 1.6               | 7.47     | 198         | 227             | 11.8       | 7.18                                | 12.3     | 8.0            | 10.8       | 7.85         |                   | 0.02                                               |      |         |      |
| 14                                          | 2.6               | 7.23     |             |                 | 11.6       | 7.03                                |          |                | 9.4        | 5.07         |                   | 0.63                                               |      |         |      |
| 15                                          | 2.4               | 7.38     |             |                 | 12.9       | 7.22                                |          |                | 10.4       | 5.38         |                   |                                                    |      |         |      |
| 16                                          | 2.1               | 7.34     |             |                 | 13.3       | 7.23                                |          |                | 11.8       | 6.25         |                   |                                                    |      |         |      |
| 17                                          | 2.1               | 7.29     |             |                 | 13.1       | 7.14                                |          |                | 11.6       | 4.44         |                   |                                                    |      |         |      |
| 18                                          | 1.5               | 7.37     | 139.0       | 131.0           | 13.7       | 7.31                                | 3.6      | 5.0            | 12.9       | 6.06         |                   |                                                    |      |         |      |
| 19                                          | 2.2               | 7.41     |             |                 | 12.1       | 7.19                                |          |                | 14.1       | 5.80         |                   |                                                    |      |         |      |
| 20                                          | 1.6               | 7.34     |             |                 | 13.0       | 7.24                                |          |                | 14.0       | 4.89         |                   |                                                    |      |         |      |
| 21                                          | 2.3               | 7.29     |             |                 | 10.3       | 7.19                                |          |                | 10.7       | 7.09         |                   | 1.04                                               |      |         |      |
| 22                                          | 2.3               | 7.30     |             |                 | 13.1       | 7.22                                |          |                | 13.6       | 7.04         |                   | 0.24                                               |      |         |      |
| 23                                          | 2.5               | 7.40     |             |                 | 10.2       | 7.30                                |          |                | 7.8        | 8.24         |                   |                                                    |      |         |      |
| 24                                          | 2.1               | 7.34     | 128.0       | 169.0           | 10.6       | 7.41                                | 7.0      | 21.0           | 9.4        | 7.64         |                   |                                                    |      |         |      |
| 25                                          | 1.1               | 7.51     |             |                 | 12.6       | 7.10                                |          |                | 10.2       | 6.11         |                   |                                                    |      |         |      |
| 26                                          | 1.3               | 7.47     |             |                 | 13.9       | 7.36                                |          |                | 11.4       | 4.32         |                   |                                                    |      |         |      |
| 27                                          | 1.0               | 7.39     |             |                 | 14.4       | 7.41                                |          |                | 12.9       | 4.86         |                   |                                                    |      |         |      |
| 28                                          | 1.6               | 7.41     |             |                 | 13.4       | 7.29                                |          |                | 11.4       | 5.89         |                   |                                                    |      |         |      |
| 29                                          | 2.0               | 7.34     |             |                 | 11.2       | 7.36                                |          |                | 10.8       | 4.26         |                   |                                                    |      |         |      |
| 30                                          | 1.5               | 7.60     |             |                 | 10.6       | 7.32                                |          |                | 10.2       | 5.40         |                   |                                                    |      |         |      |
| 31                                          | 2.2               | 7.56     |             |                 | 14.4       | 7.40                                |          |                | 12.5       | 5.44         |                   |                                                    |      |         |      |
| No. of Samp.                                | 31.0              | 31.0     | 4.0         | 4.0             | 31.0       | 31.0                                | 4.0      | 4.0            | 31.0       | 31.0         | 0.0               | 4.38                                               | 9.0  |         |      |
| Tot of Samp.                                | 53.0              |          | 607.0       | 673.0           | 402.2      | 225.0                               | 27.3     | 39.0           | 370.8      | 164.0        | 0.0               |                                                    |      |         |      |
| Monthly Avg.                                | 1.7               |          | 151.8       | 168.3           |            |                                     | 6.8      | 9.8            |            |              | #DIV/0!           |                                                    |      |         |      |
| Daily Max.                                  | 2.6               | 8.1      | 198.0       | 227.0           | 19.4       | 7.4                                 | 12.3     | 21.0           | 16.8       | 8.2          | 0.0               |                                                    |      |         |      |
| Daily Min.                                  |                   | 7.0      |             |                 | 10.2       | 7.0                                 |          |                | 7.8        | 2.7          | 0.0               |                                                    |      |         |      |
| Max 7/Avg.                                  |                   |          |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |

\*NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: Shoal 12/24/13  
Pace Project No.: 60160316

| Sample: SHOAL INFLUENT-(A1)         |                                                          | Lab ID: 60160316001 | Collected: 12/24/13 07:15 | Received: 12/24/13 14:15 | Matrix: Water  |                |         |      |
|-------------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                          | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b> | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |         |      |
| Total Suspended Solids              | 169                                                      | mg/L                | 5.0                       | 1                        |                | 12/30/13 09:53 |         |      |
| <b>5210B BOD, 5 day</b>             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |         |      |
| BOD, 5 day                          | 128                                                      | mg/L                | 2.0                       | 1                        | 12/25/13 12:32 | 12/30/13 13:20 |         |      |

| Sample: SHOAL EFFLUENT-(C2)         |                                                          | Lab ID: 60160316002 | Collected: 12/24/13 07:30 | Received: 12/24/13 14:15 | Matrix: Water  |                |           |      |
|-------------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                          | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>2540D Total Suspended Solids</b> | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |           |      |
| Total Suspended Solids              | 21.0                                                     | mg/L                | 5.0                       | 1                        |                | 12/30/13 09:53 |           |      |
| <b>5210B BOD, 5 day</b>             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |           |      |
| BOD, 5 day                          | 7.0                                                      | mg/L                | 2.0                       | 1                        | 12/25/13 12:38 | 12/30/13 13:22 |           |      |
| <b>350.1 Ammonia</b>                | Analytical Method: EPA 350.1                             |                     |                           |                          |                |                |           |      |
| Nitrogen, Ammonia                   | ND                                                       | mg/L                | 0.10                      | 1                        |                | 01/08/14 10:57 | 7664-41-7 |      |

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## ANALYTICAL RESULTS

Project: SHOAL 2/13/14  
Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]  |         | Lab ID: 60162938001                                      | Collected: 02/13/14 07:15 | Received: 02/13/14 18:40 | Matrix: Water  |                |         |      |
|------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                   | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids |         | Analytical Method: SM 2540D                              |                           |                          |                |                |         |      |
| Total Suspended Solids       | 360     | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:08 |         |      |
| 5210B BOD, 5 day             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |         |      |
| BOD, 5 day                   | 212     | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]  |         | Lab ID: 60162938002                                      | Collected: 02/13/14 07:30 | Received: 02/13/14 18:40 | Matrix: Water  |                |           |      |
|------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                   | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids |         | Analytical Method: SM 2540D                              |                           |                          |                |                |           |      |
| Total Suspended Solids       | 21.0    | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:09 |           |      |
| 5210B BOD, 5 day             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |           |      |
| BOD, 5 day                   | 63.6    | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| 350.1 Ammonia                |         | Analytical Method: EPA 350.1                             |                           |                          |                |                |           |      |
| Nitrogen, Ammonia            | 0.12    | mg/L                                                     | 0.10                      | 1                        |                | 02/18/14 13:20 | 7664-41-7 |      |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                  | COUNTY/REGION           |      |         |      |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|------------------|-------------------------|------|---------|------|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                  | SPRINGFIELD             |      |         |      |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                  | TYPE TREATMENT FACILITY |      |         |      |  |  |
| FEBURARY-2014    |                   |          |             |                 |            | MO# 0104906   |          |                |            |              |                  | OXI-DATION DITCH        |      |         |      |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                  |                         |      |         |      |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | SNOW                    | RAIN | WEATHER | TIME |  |  |
| 1                | 1.30              | 7.35     |             |                 | 11.4       | 7.28          |          |                | 11.0       | 7.78         |                  |                         | 0.11 |         |      |  |  |
| 2                | 1.36              | 7.35     |             |                 | 11.4       | 7.20          |          |                | 10.7       | 4.44         |                  |                         |      |         |      |  |  |
| 3                | 1.52              | 7.38     |             |                 | 11.5       | 7.06          |          |                | 10.6       | 5.79         |                  |                         |      |         |      |  |  |
| 4                | 1.20              | 7.66     |             |                 | 9.7        | 7.29          |          |                | 9.5        | 6.60         |                  |                         | 0.01 |         |      |  |  |
| 5                | 1.0               | 7.70     |             |                 | 7.3        | 7.42          |          |                | 10.6       | 8.52         |                  | 2.0                     | 0.2  |         |      |  |  |
| 6                | 1.0               | 7.71     |             |                 | 8.3        | 7.40          |          |                | 7.9        | 8.81         |                  |                         |      |         |      |  |  |
| 7                | 1.40              | 8.21     | 196.0       | 410.0           | 9.0        | 7.46          | 13.4     | 13.0           | 7.6        | 8.74         |                  |                         |      |         |      |  |  |
| 8                | 1.50              | 7.64     |             |                 | 10.4       | 7.23          |          |                | 9.2        | 7.14         |                  |                         |      |         |      |  |  |
| 9                | 1.40              | 7.58     |             |                 | 9.6        | 7.39          |          |                | 9.0        | 6.47         |                  |                         |      |         |      |  |  |
| 10               | 1.40              | 7.70     |             |                 | 9.8        | 7.07          |          |                | 8.6        | 6.87         |                  |                         | 0.01 |         |      |  |  |
| 11               | 2.20              | 7.77     |             |                 | 10.2       | 7.21          |          |                | 8.9        | 5.03         |                  |                         |      |         |      |  |  |
| 12               | 1.0               | 8.93     |             |                 | 11.0       | 7.15          |          |                | 9.0        | 5.82         |                  |                         |      |         |      |  |  |
| 13               | 1.40              | 7.04     | 212         | 360             | 14.2       | 7.26          | 63.6     | 21.0           | 11.2       | 4.92         |                  |                         |      |         |      |  |  |
| 14               | 1.90              | 7.62     |             |                 | 10.0       | 7.22          |          |                | 10.9       | 5.26         |                  |                         |      |         |      |  |  |
| 15               | 1.20              | 7.12     |             |                 | 9.1        | 7.27          |          |                | 8.9        | 4.95         |                  |                         |      |         |      |  |  |
| 16               | 1.20              | 7.33     |             |                 | 10.8       | 7.28          |          |                | 9.5        | 3.59         |                  |                         |      |         |      |  |  |
| 17               | 1.30              | 7.41     |             |                 | 13.1       | 7.30          |          |                | 12.1       | 3.79         |                  |                         |      |         |      |  |  |
| 18               | 1.00              | 7.54     |             |                 | 18.8       | 7.40          |          |                | 14.0       | 4.05         |                  |                         |      |         |      |  |  |
| 19               | 1.40              | 9.21     | 39.2        | 594.0           | 14.7       | 7.33          | 2.0      | 16.0           | 14.0       | 5.75         |                  |                         |      |         |      |  |  |
| 20               | 1.50              | 8.34     |             |                 | 14.1       | 7.40          |          |                | 12.0       | 6.94         |                  |                         | 0.09 |         |      |  |  |
| 21               | 1.10              | 7.76     |             |                 | 13.3       | 7.32          |          |                | 11.0       | 3.07         |                  |                         |      |         |      |  |  |
| 22               | 1.10              | 7.71     |             |                 | 11.7       | 7.02          |          |                | 11.7       | 5.38         |                  |                         |      |         |      |  |  |
| 23               | 1.20              | 7.95     |             |                 | 11.1       | 7.18          |          |                | 11.3       | 5.06         |                  |                         |      |         |      |  |  |
| 24               | 1.80              | 7.67     |             |                 | 13.1       | 7.35          |          |                | 12.7       | 4.00         |                  |                         |      |         |      |  |  |
| 25               | 1.90              | 8.04     |             |                 | 12.6       | 7.52          |          |                | 10.8       | 6.09         |                  |                         |      |         |      |  |  |
| 26               | 1.00              | 8.21     | 137.0       | 396.0           | 10.2       | 7.50          | 12.3     | 20.0           | 9.7        | 7.37         |                  |                         |      |         |      |  |  |
| 27               | 2.00              | 7.67     |             |                 | 14.0       | 7.46          |          |                | 11.0       | 5.25         |                  |                         |      |         |      |  |  |
| 28               | 2.70              | 7.95     |             |                 | 10.6       | 7.37          |          |                | 11.3       | 7.20         |                  |                         |      |         |      |  |  |
| 29               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |
| 30               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |
| 31               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |
| to. of Samp.     | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0          | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                         |      |         |      |  |  |
| ot of Samp.      | 40.0              |          | 584.2       | 1760.0          | 321.0      | 204.3         | 91.3     | 70.0           | 294.7      | 164.7        | 0.0              |                         |      |         |      |  |  |
| onthly Avg.      | 1.4               |          | 146.1       | 440.0           |            |               | 22.8     | 17.5           |            |              | #DIV/0!          |                         |      |         |      |  |  |
| aily Max.        | 2.7               | 9.2      | 212.0       | 594.0           | 18.8       | 7.5           | 63.6     | 21.0           | 14.0       | 8.8          | 0.0              |                         |      |         |      |  |  |
| aily Min.        |                   | 7.0      |             |                 | 7.3        | 7.0           |          |                | 7.6        | 3.1          | 0.0              |                         |      |         |      |  |  |
| ax 7/Avg.        |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

D 780-1308 (6-03)



## ANALYTICAL RESULTS

Project: SHOAL 2/13/14  
Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]         |         | Lab ID: 60162938001                                      | Collected: 02/13/14 07:15 | Received: 02/13/14 18:40 | Matrix: Water  |                |         |      |
|-------------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                          | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |                           |                          |                |                |         |      |
| Total Suspended Solids              | 360     | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:08 |         |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |         |      |
| BOD, 5 day                          | 212     | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]         |         | Lab ID: 60162938002                                      | Collected: 02/13/14 07:30 | Received: 02/13/14 18:40 | Matrix: Water  |                |           |      |
|-------------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                          | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |                           |                          |                |                |           |      |
| Total Suspended Solids              | 21.0    | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:09 |           |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |           |      |
| BOD, 5 day                          | 63.6    | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| <b>350.1 Ammonia</b>                |         | Analytical Method: EPA 350.1                             |                           |                          |                |                |           |      |
| Nitrogen, Ammonia                   | 0.12    | mg/L                                                     | 0.10                      | 1                        |                | 02/18/14 13:20 | 7664-41-7 |      |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>HOAL CREEK WWTP |                   |                        |             |                              |            | CITY<br>NEOSHO |          |                |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
|-------------------------------------|-------------------|------------------------|-------------|------------------------------|------------|----------------|----------|----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| OR THE MONTH OF<br>April-14         |                   | OUTFALL NUMBER<br>#001 |             | PERMIT NUMBER<br>MO# 0104906 |            |                |          |                |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| INFLUENT                            |                   |                        |             |                              |            | EFFLUENT       |          |                |            |              |                                             |       |      |         |      |
| DAY                                 | FLOW:<br>MGD EFF. | PH UNITS               | BOD<br>mg/L | SUSP.<br>SOLIDS              | TEMP<br>°C | PH UNITS       | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                   | 1.0               | 7.65                   |             |                              | 14         | 7.38           |          |                | 14         | 5.82         |                                             |       |      |         |      |
| 2                                   | 1.4               | 7.60                   | 248.0       | 283.0                        | 16.4       | 7.37           | 12.2     | 9.0            | 16.2       | 5.90         | 150.0                                       |       |      |         |      |
| 3                                   | 1.0               | 7.64                   |             |                              | 19.0       | 7.40           |          |                | 18.0       | 5.52         |                                             |       |      |         |      |
| 4                                   | 1.0               | 7.84                   |             |                              | 13.7       | 7.52           |          |                | 14.4       | 5.86         |                                             |       |      |         |      |
| 5                                   | 0.8               | 7.61                   |             |                              | 13.4       | 7.35           |          |                | 13.6       | 5.09         |                                             |       |      |         |      |
| 6                                   | 0.5               | 7.7                    |             |                              | 14.1       | 7.19           |          |                | 15.6       | 4.52         |                                             |       |      |         |      |
| 7                                   | 1.1               | 7.69                   |             |                              | 17.0       | 7.35           |          |                | 15.0       | 4.60         |                                             |       |      |         |      |
| 8                                   | 1.0               | 7.66                   |             |                              | 14.3       | 7.42           |          |                | 14.6       | 4.77         |                                             |       |      |         |      |
| 9                                   | 1.1               | 7.58                   | 446.0       | 167.0                        | 19.3       | 7.33           | 14.6     | 20.0           | 16.4       | 5.00         | 75.0                                        |       |      |         |      |
| 10                                  | 1.0               | 7.63                   |             |                              | 17.5       | 7.33           |          |                | 17.0       | 4.70         |                                             |       |      |         |      |
| 11                                  | 1.5               | 7.62                   |             |                              | 15.4       | 7.42           |          |                | 15.6       | 4.64         |                                             |       |      |         |      |
| 12                                  | 0.9               | 7.59                   |             |                              | 19.6       | 7.36           |          |                | 18.6       | 3.86         |                                             |       |      |         |      |
| 13                                  | 0.7               | 7.60                   |             |                              | 18.5       | 7.42           |          |                | 18.3       | 4.20         |                                             |       |      |         |      |
| 14                                  | 1.0               | 8.10                   |             |                              | 13.1       | 7.35           |          |                | 15.0       | 4.46         |                                             |       |      |         |      |
| 15                                  | 1.0               | 7.65                   |             |                              | 17.1       | 7.37           |          |                | 16.4       | 4.75         |                                             |       |      |         |      |
| 16                                  | 2.7               | 7.78                   | 191.0       | 78.0                         | 16.3       | 7.40           | 10.1     | 16.0           | 16.0       | 4.50         | 80.0                                        |       |      |         |      |
| 17                                  | 1.0               | 7.78                   |             |                              | 16.1       | 7.38           |          |                | 16.2       | 3.92         |                                             |       |      |         |      |
| 18                                  | 1.0               | 7.83                   |             |                              | 16.8       | 7.37           |          |                | 15.8       | 5.90         |                                             |       |      |         |      |
| 19                                  | 0.7               | 7.60                   |             |                              | 14.1       | 7.21           |          |                | 14.7       | 7.38         |                                             |       |      |         |      |
| 20                                  | 2.0               | 7.66                   |             |                              | 16.7       | 7.19           |          |                | 16.5       | 5.70         |                                             |       |      |         |      |
| 21                                  | 1.0               | 8.55                   |             |                              | 17.7       | 7.32           |          |                | 18.7       | 4.05         |                                             |       |      |         |      |
| 22                                  | 1.4               | 8.44                   |             |                              | 18.1       | 7.36           |          |                | 18.0       | 4.15         |                                             |       |      |         |      |
| 23                                  | 1.4               | 7.85                   | 1320.0      | 407.0                        | 18.8       | 7.35           | 13.8     | 7.0            | 17.7       | 3.15         | 100.0                                       |       |      |         |      |
| 24                                  | 1.0               | 8.16                   |             |                              | 18.2       | 7.32           |          |                | 20.0       | 3.98         |                                             |       |      |         |      |
| 25                                  | 1.0               | 7.70                   |             |                              | 18.8       | 7.36           |          |                | 19.0       | 4.78         |                                             |       |      |         |      |
| 26                                  | 1.7               | 7.58                   |             |                              | 17.4       | 7.35           |          |                | 18.2       | 5.61         |                                             |       |      |         |      |
| 27                                  | 0.6               | 7.55                   |             |                              | 18.8       | 7.24           |          |                | 19.6       | 4.78         |                                             |       |      |         |      |
| 28                                  | 1.5               | 7.60                   |             |                              | 19.6       | 7.29           |          |                | 19.2       | 4.33         |                                             |       |      |         |      |
| 29                                  | 1.5               | 7.63                   |             |                              | 15.0       | 7.40           |          |                | 16.0       | 5.75         |                                             |       |      |         |      |
| 30                                  | 1.3               | 7.60                   | 582.0       | 1050.0                       | 16.2       | 7.40           | 38.6     | 21.0           | 16.6       | 5.00         | 8.0                                         |       |      |         |      |
| 31                                  |                   |                        |             |                              |            |                |          |                |            |              |                                             |       |      |         |      |
| 3. of Samp.                         | 30.0              | 30.0                   | 5.0         | 5.0                          | 30.0       | 30.0           | 5.0      | 5.0            | 30.0       | 30.0         | 5.0                                         |       |      |         |      |
| 4. of Samp.                         | 34.7              |                        | 2787.0      | 1985.0                       | 501.0      | 220.5          | 89.3     | 73.0           | 500.9      | 146.7        | 413.0                                       |       |      |         |      |
| Monthly Avg.                        | 1.2               |                        | 557.4       | 397.0                        |            |                | 17.9     | 14.6           |            |              | 82.6                                        |       |      |         |      |
| Daily Max.                          | 2.7               | 8.6                    | 1320.0      | 1050.0                       | 19.6       | 7.5            | 38.6     | 21.0           | 20.0       | 7.4          | 150.0                                       |       |      |         |      |
| Daily Min.                          |                   | 7.6                    |             |                              | 13.1       | 7.2            |          |                | 13.6       | 3.2          | 8.0                                         |       |      |         |      |
| Max 7/Avg.                          |                   |                        |             |                              |            |                |          |                |            |              |                                             |       |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

1780-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |                   |                               |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |
|---------------------------------------------|-------------------|-------------------------------|-------------|-----------------|------------|-------------------------------------|----------|----------------|------------|--------------|-------------------|----------------------------------------------------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |                   |                               |             |                 |            | CITY<br><b>NEOSHO</b>               |          |                |            |              |                   | COUNTY/REGION<br><b>SPRINGFIELD</b>                |      |         |      |
| FOR THE MONTH OF<br><b>April-13</b>         |                   | OUTFALL NUMBER<br><b>#001</b> |             |                 |            | PERMIT NUMBER<br><b>MO# 0104906</b> |          |                |            |              |                   | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |      |         |      |
| INFLUENT                                    |                   |                               |             |                 |            | EFFLUENT                            |          |                |            |              |                   |                                                    |      |         |      |
| DAY                                         | FLOW:<br>MGD EFF. | PH UNITS                      | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                            | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | OTHER                                              | RAIN | WEATHER | TIME |
| 1                                           | 0.9               | 7.75                          |             |                 | 14.6       | 7.41                                |          |                | 14.9       | 5.54         |                   |                                                    |      |         |      |
| 2                                           | 1.10              | 7.94                          |             |                 | 13.0       | 7.30                                |          |                | 12.2       | 5.50         |                   |                                                    | 0.22 |         |      |
| 3                                           | 2.40              | 7.67                          | 211.0       | 91.0            | 14.0       | 7.40                                | 3.8      | 5.0            | 12.7       | 5.15         | 165.0             |                                                    | 0.27 |         |      |
| 4                                           | 1.30              | 7.84                          |             |                 | 15.5       | 7.33                                |          |                | 14.0       | 4.90         |                   |                                                    |      |         |      |
| 5                                           | 1.40              | 7.65                          |             |                 | 18.9       | 7.31                                |          |                | 15.6       | 4.72         |                   |                                                    |      |         |      |
| 6                                           | 1.37              | 7.61                          |             |                 | 14.8       | 7.41                                |          |                | 14.5       | 5.72         |                   |                                                    |      |         |      |
| 7                                           | 1.47              | 7.73                          |             |                 | 16.7       | 7.33                                |          |                | 15.3       | 4.09         |                   |                                                    |      |         |      |
| 8                                           | 1.10              | 7.67                          |             |                 | 21.9       | 7.45                                |          |                | 19.2       | 4.61         |                   |                                                    |      |         |      |
| 9                                           | 1.40              | 7.35                          |             |                 | 18.7       | 7.66                                |          |                | 19.8       | 4.46         |                   |                                                    |      |         |      |
| 10                                          | 1.40              | 7.50                          |             |                 | 15.0       | 6.90                                |          |                | 15.4       | 4.20         |                   |                                                    | 0.55 |         |      |
| 11                                          | 3.60              | 7.45                          | 91.9        | 85.0            | 14.0       | 7.43                                | 5.4      | 12.0           | 12.7       | 6.91         | 115.0             |                                                    | 1.55 |         |      |
| 12                                          | 1.80              | 7.53                          |             |                 | 15.0       | 7.59                                |          |                | 14.0       | 5.80         |                   |                                                    |      |         |      |
| 13                                          | 1.76              | 7.57                          |             |                 | 12.5       | 7.27                                |          |                | 15.5       | 5.43         |                   |                                                    |      |         |      |
| 14                                          | 1.80              | 7.58                          |             |                 | 15.8       | 7.35                                |          |                | 16.7       | 5.08         |                   |                                                    |      |         |      |
| 15                                          | 1.60              | 7.51                          |             |                 | 19.8       | 7.07                                |          |                | 17.6       | 4.68         |                   |                                                    |      |         |      |
| 16                                          | 1.50              | 7.63                          |             |                 | 17.5       | 7.26                                |          |                | 16.7       | 5.00         |                   |                                                    |      |         |      |
| 17                                          | 1.60              | 7.61                          |             |                 | 20.4       | 7.31                                |          |                | 18.6       | 5.58         |                   |                                                    |      |         |      |
| 18                                          | 4.60              | 8.42                          | 146.0       | 270.0           | 14.1       | 7.37                                | 4.0      | 11.0           | 15.0       | 6.33         | 93.0              |                                                    | 1.90 |         |      |
| 19                                          | 3.70              | 8.12                          |             |                 | 16.6       | 7.38                                |          |                | 14.4       | 6.15         |                   |                                                    |      |         |      |
| 20                                          | 3.40              | 7.52                          |             |                 | 16.1       | 7.32                                |          |                | 15.3       | 6.10         |                   |                                                    |      |         |      |
| 21                                          | 2.30              | 7.63                          |             |                 | 16.7       | 7.38                                |          |                | 16.1       | 6.13         |                   |                                                    |      |         |      |
| 22                                          | 2.00              | 7.49                          |             |                 | 18.3       | 7.31                                |          |                | 17.0       | 6.79         |                   |                                                    |      |         |      |
| 23                                          | 2.30              | 7.54                          |             |                 | 13.4       | 7.70                                |          |                | 13.9       | 5.55         |                   |                                                    | 0.36 |         |      |
| 24                                          | 1.76              | 8.60                          |             |                 | 16.0       | 7.34                                |          |                | 14.5       | 5.96         |                   |                                                    | 0.09 |         |      |
| 25                                          | 1.70              | 7.56                          | 229.0       | 150.0           | 18.0       | 7.26                                | 5.2      | 5.0            | 16.6       | 6.67         | 30.0              |                                                    |      |         |      |
| 26                                          | 1.70              | 7.61                          |             |                 | 15.6       | 7.22                                |          |                | 16.0       | 6.35         |                   |                                                    | 0.12 |         |      |
| 27                                          | 2.40              | 7.50                          |             |                 | 14.3       | 7.33                                |          |                | 13.8       | 5.78         |                   |                                                    | 0.90 |         |      |
| 28                                          | 2.20              | 7.58                          |             |                 | 16.2       | 7.28                                |          |                | 15.0       | 5.29         |                   |                                                    | 0.15 |         |      |
| 29                                          | 2.70              | 7.61                          |             |                 | 19.6       | 7.33                                |          |                | 18.0       | 3.47         |                   |                                                    |      |         |      |
| 30                                          | 2.30              | 7.68                          |             |                 | 18.9       | 7.21                                |          |                | 18.4       | 3.18         |                   |                                                    |      |         |      |
| 31                                          |                   |                               |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |
| No. of Samp.                                | 30.0              | 30.0                          | 4.0         | 4.0             | 30.0       | 30.0                                | 4.0      | 4.0            | 30.0       | 30.0         | 4.0               |                                                    |      |         |      |
| Vol of Samp.                                | 60.6              |                               | 677.9       | 596.0           | 491.9      | 220.2                               | 18.4     | 33.0           | 469.4      | 161.1        | 403.0             |                                                    |      |         |      |
| Monthly Avg.                                | 2.0               |                               | 169.5       | 149.0           |            |                                     | 4.6      | 8.3            |            |              | 100.8             |                                                    |      |         |      |
| Daily Max.                                  | 4.6               | 8.6                           | 229.0       | 270.0           | 21.9       | 7.7                                 | 5.4      | 12.0           | 19.8       | 6.9          | 165.0             |                                                    |      |         |      |
| Daily Min.                                  |                   | 7.4                           |             |                 | 12.5       | 6.9                                 |          |                | 12.2       | 3.2          | 30.0              |                                                    |      |         |      |
| Max 7/Avg.                                  |                   |                               |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

780-1308 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |       | CITY          |          |                |            |              | COUNTY/REGION           |       |      |         |      |
|------------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------------|-------|------|---------|------|
| Inlet Creek WWTP |                   |          |             |                 |       | NEOSHO        |          |                |            |              | SPRINGFIELD             |       |      |         |      |
| PERMIT NUMBER    |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              | TYPE TREATMENT FACILITY |       |      |         |      |
| MO# 0104906      |                   |          |             |                 |       | MO# 0104906   |          |                |            |              | OXI-DATION DITCH        |       |      |         |      |
| INFLUENT         |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                         |       |      |         |      |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100       | OTHER | RAIN | WEATHER | TIME |
| 1                | 5.1               | 6.80     |             |                 | 17.5  | 7.13          |          |                | 18.2       | 4.88         |                         |       |      |         |      |
| 2                | 4.0               | 6.97     |             |                 | 18.3  | 7.27          |          |                | 19.0       | 5.00         |                         |       |      |         |      |
| 3                | 4.3               | 6.97     | 87.4        | 49.0            | 19.1  | 7.29          | 4.9      | 12.0           | 20.3       | 4.97         | 36400                   |       |      |         |      |
| 4                | 3.5               | 6.84     |             |                 | 20.3  | 7.33          |          |                | 20.7       | 4.92         |                         |       |      |         |      |
| 5                | 3.0               | 7.07     |             |                 | 19.1  | 7.43          |          |                | 19.6       | 4.88         |                         |       |      |         |      |
| 6                | 2.0               | 7.04     |             |                 | 19.0  | 7.39          |          |                | 19.5       | 4.91         |                         |       |      |         |      |
| 7                | 2.2               | 7.10     |             |                 | 18.9  | 7.29          |          |                | 19.7       | 4.52         |                         |       |      |         |      |
| 8                | 1.7               | 7.15     |             |                 | 20.7  | 6.98          |          |                | 20.3       | 4.46         |                         |       |      |         |      |
| 9                | 2.4               | 7.07     |             |                 | 20.8  | 7.28          |          |                | 21.4       | 4.27         |                         |       |      |         |      |
| 10               | 2.3               | 6.70     | 147.0       | 77.3            | 21.9  | 7.23          | 40.7     | 19.0           | 22.6       | 3.13         | 19863.0                 |       |      |         |      |
| 11               | 1.8               | 7.02     |             |                 | 20.6  | 7.20          |          |                | 22.1       | 2.89         |                         |       |      |         |      |
| 12               | 1.8               | 7.00     |             |                 | 21.1  | 7.09          |          |                | 22.2       | 2.80         |                         |       |      |         |      |
| 13               | 2.3               | 6.97     |             |                 | 22.1  | 7.14          |          |                | 22.7       | 2.79         |                         |       |      |         |      |
| 14               | 2.4               | 7.13     |             |                 | 21.70 | 7.11          |          |                | 22.3       | 2.22         |                         |       |      |         |      |
| 15               | 2.5               | 7.28     |             |                 | 21.4  | 7.19          |          |                | 23.2       | 3.00         |                         |       |      |         |      |
| 16               | 2.0               | 7.19     |             |                 | 20.9  | 7.37          |          |                | 22.7       | 2.97         |                         |       |      |         |      |
| 17               | 1.7               | 7.02     | 226.0       | 86.7            | 20.0  | 7.43          | 47.2     | 56.0           | 22.4       | 3.09         | 235900                  |       |      |         |      |
| 18               | 2.4               | 7.49     |             |                 | 21.3  | 7.18          |          |                | 22.3       | 3.08         |                         |       |      |         |      |
| 19               | 2.2               | 7.12     |             |                 | 19.9  | 7.27          |          |                | 22.1       | 4.96         |                         |       |      |         |      |
| 20               | 2.0               | 7.22     |             |                 | 19.9  | 7.42          |          |                | 22.0       | 4.45         |                         |       |      |         |      |
| 21               | 1.9*              | 7.32     |             |                 | 20.9  | 7.51          |          |                | 22.9       | 4.12         |                         |       |      |         |      |
| 22               | 2.0               | 7.19     |             |                 | 25.5  | 7.60          |          |                | 23.6       | 3.67         |                         |       |      |         |      |
| 23               | 2.3               | 7.88     | 178.0       | 237.0           | 25.2  | 7.51          | 37.4     | 27.0           | 24.0       | 3.91         | 111900.0                |       |      |         |      |
| 24               | 1.8               | 7.01     |             |                 | 24.7  | 7.59          |          |                | 23.1       | 3.11         |                         |       |      |         |      |
| 25               | 1.7               | 7.06     |             |                 | 23.2  | 7.36          |          |                | 23.8       | 3.88         |                         |       |      |         |      |
| 26               | 1.5               | 7.74     |             |                 | 21.3  | 7.28          |          |                | 22.1       | 3.51         |                         |       |      |         |      |
| 27               | 1.0               | 7.05     |             |                 | 20.1  | 7.21          |          |                | 22.5       | 3.55         |                         |       |      |         |      |
| 28               | 1.6               | 7.08     |             |                 | 21.6  | 7.44          |          |                | 22.5       | 2.73         |                         |       |      |         |      |
| 29               | 1.5               | 7.28     |             |                 | 23.0  | 7.40          |          |                | 24.0       | 2.92         |                         |       |      |         |      |
| 30               | 1.0               | 7.32     |             |                 | 23.4  | 7.34          |          |                | 23.8       | 3.21         |                         |       |      |         |      |
| 31               |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| No. of Samp.     |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| Tot of Samp.     | 66.3              | 214.1    | 638.4       | 450.0           | 633.4 | 219.3         | 130.2    | 114.0          |            | 112.8        |                         |       |      |         |      |
| Monthly Avg.     | #DIV/0!           |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                         |       |      |         |      |
| Daily Max.       | 5.1               | 7.9      | 226.0       | 237.0           | 25.5  | 7.6           | 47.2     | 56.0           | 24.0       | 5.0          | 235900.0                |       |      |         |      |
| Daily Min.       | 1.0               | 6.7      |             |                 | 17.5  | 7.0           |          |                | 18.2       | 2.2          | 19863.0                 |       |      |         |      |
| Max 7/Avg.       |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60196583

| <b>Sample: SHOAL EFFLUENT</b>                                              |               | <b>Lab ID: 60196583001</b> |              | Collected: 06/17/15 08:10 |    | Received: 06/17/15 14:50 |                | Matrix: Water |      |
|----------------------------------------------------------------------------|---------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                                                                 | Results       | Units                      | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| Analytical Method: SM 9223B Colilert Preparation Method: SM 9223B Colilert |               |                            |              |                           |    |                          |                |               |      |
| <b>MBIO 9223B E.Coli</b>                                                   | <b>235900</b> | MPN/100 mL                 | 1.0          | 1.0                       | 1  | 06/17/15 14:54           | 06/18/15 15:00 |               |      |
| Escherichia coli (E.coli)                                                  |               |                            |              |                           |    |                          |                |               |      |

| <b>Sample: SHOAL INFLUENT (A1)</b>                       |             | <b>Lab ID: 60196583002</b> |              | Collected: 06/17/15 08:00 |    | Received: 06/17/15 19:20 |                | Matrix: Water |      |
|----------------------------------------------------------|-------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                                               | Results     | Units                      | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| Analytical Method: SM 2540D                              |             |                            |              |                           |    |                          |                |               |      |
| <b>2540D Total Suspended Solids</b>                      | <b>86.7</b> | mg/L                       | 5.0          | 5.0                       | 1  |                          | 06/19/15 09:03 |               |      |
| Total Suspended Solids                                   |             |                            |              |                           |    |                          |                |               |      |
| Analytical Method: SM 5210B Preparation Method: SM 5210B |             |                            |              |                           |    |                          |                |               |      |
| <b>5210B BOD, 5 day</b>                                  | <b>226</b>  | mg/L                       | 2.0          | 2.0                       | 1  | 06/18/15 12:16           | 06/23/15 12:31 |               | 1e   |
| BOD, 5 day                                               |             |                            |              |                           |    |                          |                |               |      |

| <b>Sample: SHOAL EFFLUENT (C2)</b>                       |             | <b>Lab ID: 60196583003</b> |              | Collected: 06/17/15 08:00 |    | Received: 06/17/15 19:20 |                | Matrix: Water |      |
|----------------------------------------------------------|-------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                                               | Results     | Units                      | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| Analytical Method: SM 2540D                              |             |                            |              |                           |    |                          |                |               |      |
| <b>2540D Total Suspended Solids</b>                      | <b>56.0</b> | mg/L                       | 5.0          | 5.0                       | 1  |                          | 06/19/15 09:03 |               |      |
| Total Suspended Solids                                   |             |                            |              |                           |    |                          |                |               |      |
| Analytical Method: SM 5210B Preparation Method: SM 5210B |             |                            |              |                           |    |                          |                |               |      |
| <b>5210B BOD, 5 day</b>                                  | <b>47.2</b> | mg/L                       | 2.0          | 2.0                       | 1  | 06/18/15 12:22           | 06/23/15 12:35 |               |      |
| BOD, 5 day                                               |             |                            |              |                           |    |                          |                |               |      |
| Analytical Method: EPA 350.1                             |             |                            |              |                           |    |                          |                |               |      |
| <b>350.1 Ammonia</b>                                     | <b>18.2</b> | mg/L                       | 0.50         | 0.14                      | 5  |                          | 06/24/15 08:33 | 7664-41-7     |      |
| Nitrogen, Ammonia                                        |             |                            |              |                           |    |                          |                |               |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60200938

| Sample: SHOAL INFLUENT A1      Lab ID: 60200938001      Collected: 08/19/15 07:30      Received: 08/19/15 18:25      Matrix: Water |         |       |              |     |    |                |                |         |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-----|----|----------------|----------------|---------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL | DF | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |     |    |                |                |         |      |
| Total Suspended Solids                                                                                                             | 120     | mg/L  | 5.0          | 5.0 | 1  |                | 08/24/15 12:01 |         |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |     |    |                |                |         |      |
| BOD, 5 day                                                                                                                         | 28.9    | mg/L  | 2.0          | 2.0 | 1  | 08/20/15 11:42 | 08/25/15 11:12 |         | 1e   |

| Sample: SHOAL EFFLUENT C2      Lab ID: 60200938002      Collected: 08/19/15 08:00      Received: 08/19/15 18:25      Matrix: Water |         |       |              |       |    |                |                |           |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|-----------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |       |    |                |                |           |      |
| Total Suspended Solids                                                                                                             | 128     | mg/L  | 5.0          | 5.0   | 1  |                | 08/24/15 12:01 |           |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |       |    |                |                |           |      |
| BOD, 5 day                                                                                                                         | 53.1    | mg/L  | 2.0          | 2.0   | 1  | 08/20/15 11:45 | 08/25/15 11:16 |           |      |
| 350.1 Ammonia      Analytical Method: EPA 350.1                                                                                    |         |       |              |       |    |                |                |           |      |
| Nitrogen, Ammonia                                                                                                                  | 3.1     | mg/L  | 0.20         | 0.093 | 2  |                | 08/25/15 10:16 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|              |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |
|--------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------|-------------------------|------|---------|------|
| OF FACILITY  |                   |          |             |                 |       | CITY          |          |                |            |              |                   | COUNTY/REGION           |      |         |      |
| l Creek WWTP |                   |          |             |                 |       | NEOSHO        |          |                |            |              |                   | SPRINGFIELD             |      |         |      |
| THE MONTH OF |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              |                   | TYPE TREATMENT FACILITY |      |         |      |
| 1st-08 015   |                   |          |             |                 |       | MO# 0104906   |          |                |            |              |                   | OXI-DATION DITCH        |      |         |      |
| ENT          |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                   |                         |      |         |      |
|              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100 | OTHER                   | RAIN | WEATHER | TIME |
| 1            | 1.6               | 7.38     |             |                 | 22.5  | 7.60          |          |                | 24.5       | 3.44         | in/Lab            |                         | 0.00 |         |      |
| 2            | 1.0               | 7.79     |             |                 | 23.4  | 7.59          |          |                | 25.0       | 3.60         | in                |                         | 0.00 |         |      |
| 3            | 1.2               | 7.94     |             |                 | 24.2  | 7.60          |          |                | 24.5       | 3.42         | house             |                         | 0.00 |         |      |
| 4            | 1.7               | 7.79     |             |                 | 24.4  | 7.58          |          |                | 24.7       | 3.56         |                   |                         | 0.00 |         |      |
| 5            | 3.1               | 7.28     | 260.0       | 104.0           | 22.5  | 7.60          | 2.7      | 5.0            | 24.3       | 3.27         | 25.0              |                         | 0.43 |         |      |
| 6            | 1.9               | 7.79     |             |                 | 22.4  | 7.34          |          |                | 24.3       | 4.58         |                   |                         | 0.26 |         |      |
| 7            | 1.0               | 7.39     |             |                 | 23.3  | 7.29          |          |                | 23.2       | 3.92         |                   |                         | 0.00 |         |      |
| 8            | 1.3               | 8.17     |             |                 | 23.4  | 7.75          |          |                | 25.3       | 4.77         |                   |                         | 0.00 |         |      |
| 9            | 1.1               | 7.43     |             |                 | 23.1  | 7.65          |          |                | 25.2       | 4.49         |                   |                         | 0.00 |         |      |
| 10           | 1.6               | 7.34     |             |                 | 27.0  | 7.48          |          |                | 26.6       | 4.28         |                   |                         | 0.16 |         |      |
| 11           | 1.4               | 7.51     |             |                 | 26.1  | 7.67          |          |                | 26.7       | 3.90         |                   |                         | 0.10 |         |      |
| 12           | 2.6               | 7.41     | 520.0       | 294.0           | 26.5  | 7.63          | 4.2      | 9.0            | 26.0       | 4.75         | 80.0              |                         | 0.00 |         |      |
| 13           | 1.6               | 7.58     |             |                 | 27.2  | 7.52          |          |                | 26.8       | 3.84         |                   |                         | 0.00 |         |      |
| 14           | 1.5               | 7.16     |             |                 | 26.6  | 7.61          |          |                | 26.7       | 6.50         |                   |                         | 0.00 |         |      |
| 15           | 1.3               | 7.43     |             |                 | 23.2  | 7.58          |          |                | 23.7       | 5.48         |                   |                         | 0.00 |         |      |
| 16           | 1.2               | 7.23     |             |                 | 23.5  | 7.66          |          |                | 23.7       | 3.72         |                   |                         | 0.00 |         |      |
| 17           | 1.5               | 7.60     |             |                 | 23.2  | 7.51          |          |                | 24.5       | 3.05         |                   |                         | 0.00 |         |      |
| 18           | 1.6               | 7.61     |             |                 | 23.5  | 7.58          |          |                | 24.6       | 4.82         |                   |                         | 0.55 |         |      |
| 19           | 3.1               | 7.01     | 28.9        | 120.0           | 22.1  | 7.40          | 53.1     | 128.0          | 23.2       | 3.61         | 68.0              |                         | 3.70 |         |      |
| 20           | 2.9               | 7.20     |             |                 | 21.5  | 7.11          |          |                | 22.6       | 5.06         |                   |                         | 0.10 |         |      |
| 21           | 2.7               | 7.39     |             |                 | 21.6  | 7.56          |          |                | 22.4       | 3.86         |                   |                         | 0.00 |         |      |
| 22           | 2.4               | 7.68     |             |                 | 21.8  | 7.59          |          |                | 22.5       | 4.72         |                   |                         | 0.18 |         |      |
| 23           | 4.3               | 7.19     |             |                 | 21.8  | 7.47          |          |                | 22.6       | 2.60         |                   |                         | 1.18 |         |      |
| 24           | 3.4               | 7.28     |             |                 | 23.3  | 7.47          |          |                | 23.3       | 3.36         |                   |                         | 0.00 |         |      |
| 25           | 2.2               | 7.34     | 307.0       | 365.0           | 22.3  | 7.44          | 2.0      | 5.0            | 23.0       | 2.53         | 10.0              |                         | 0.00 |         |      |
| 26           | 1.5               | 7.19     |             |                 | 20.1  | 7.55          |          |                | 21.3       | 3.55         |                   |                         | 0.00 |         |      |
| 27           | 1.4               | 7.24     |             |                 | 21.1  | 7.51          |          |                | 22.3       | 5.44         |                   |                         | 0.00 |         |      |
| 28           | 1.3               | 7.31     |             |                 | 21.1  | 7.53          |          |                | 22.2       | 6.45         |                   |                         | 0.00 |         |      |
| 29           | 1.7               | 7.25     |             |                 | 21.2  | 7.55          |          |                | 22.4       | 6.50         |                   |                         | 0.00 |         |      |
| 30           | 1.8               | 7.30     |             |                 | 21.1  | 7.55          |          |                | 22.3       | 6.20         |                   |                         | 0.00 |         |      |
| 31           | 1.7               | 7.44     |             |                 | 22.3  | 7.56          |          |                | 22.7       | 5.68         |                   |                         | 0.00 |         |      |
| Samp.        |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |
| Samp.        | 58.6              | 230.7    | 1115.9      | 883.0           | 717.3 | 233.5         | 62.0     | 147.0          |            | 135.0        |                   |                         |      |         |      |
| y Avg.       | 3.3               |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                   |                         |      |         |      |
| Max.         | 4.3               | 8.2      | 520.0       | 365.0           | 27.2  | 7.8           | 53.1     | 128.0          | 26.8       | 6.5          | 80.0              |                         |      |         |      |
| Min.         | 1.0               | 7.0      |             |                 | 20.1  | 7.1           |          |                | 21.3       | 2.5          | 10.0              |                         |      |         |      |
| Avg.         |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |

SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: SHOAL 2/14/13  
Pace Project No.: 60138809

| Sample: SHOAL INF-(A1)       |                                                          | Lab ID: 60138809001 | Collected: 02/14/13 07:10 | Received: 02/14/13 18:24 | Matrix: Water |                |                |         |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|---------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |               |                |                |         |      |
| Total Suspended Solids       | 168                                                      | mg/L                | 5.0                       | 5.0                      | 1             |                | 02/19/13 09:17 |         |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |               |                |                |         |      |
| BOD, 5 day                   | 157                                                      | mg/L                | 2.0                       | 2.0                      | 1             | 02/15/13 15:38 | 02/20/13 14:10 |         |      |

| Sample: SHOAL EFFLUENT (C2)  |                                                          | Lab ID: 60138809002 | Collected: 02/14/13 07:30 | Received: 02/14/13 18:24 | Matrix: Water |                |                |           |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |               |                |                |           |      |
| Total Suspended Solids       | 9.0                                                      | mg/L                | 5.0                       | 5.0                      | 1             |                | 02/19/13 09:17 |           |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |               |                |                |           |      |
| BOD, 5 day                   | 12.5                                                     | mg/L                | 2.0                       | 2.0                      | 1             | 02/15/13 15:56 | 02/20/13 14:20 |           |      |
| 350.1 Ammonia                | Analytical Method: EPA 350.1                             |                     |                           |                          |               |                |                |           |      |
| Nitrogen, Ammonia            | ND                                                       | mg/L                | 0.10                      | 0.034                    | 1             |                | 02/19/13 14:09 | 7664-41-7 |      |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>SHOAL CREEK WWTP |                   |          |             |                 |            | CITY<br>NEOSHO         |          |                |            |              |                  | COUNTY/REGION<br>SPRINGFIELD |         |      |  |
|--------------------------------------|-------------------|----------|-------------|-----------------|------------|------------------------|----------|----------------|------------|--------------|------------------|------------------------------|---------|------|--|
| FOR THE MONTH OF<br>February-13      |                   |          |             |                 |            | OUTFALL NUMBER<br>#001 |          |                |            |              |                  | PERMIT NUMBER<br>MO# 0104906 |         |      |  |
| INFLUENT                             |                   |          |             |                 |            | EFFLUENT               |          |                |            |              |                  |                              |         |      |  |
| DAY                                  | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS               | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | RAIN                         | WEATHER | TIME |  |
| 1                                    | 2.6               | 7.67     |             |                 | 11.4       | 7.34                   |          |                | 11.6       | 3.20         |                  | .3                           | .03     |      |  |
| 2                                    | 1.4               | 7.57     |             |                 | 11.3       | 7.38                   |          |                | 11.5       | 5.70         |                  |                              |         |      |  |
| 3                                    | 1.6               | 7.66     |             |                 | 10.5       | 7.60                   |          |                | 11.4       | 4.17         |                  |                              |         |      |  |
| 4                                    | 1.8               | 7.56     |             |                 | 16.0       | 7.39                   |          |                | 13.0       | 2.75         |                  | .06                          |         |      |  |
| 5                                    | 1.7               | 7.90     |             |                 | 15.5       | 7.40                   |          |                | 13.3       | 5.33         |                  |                              |         |      |  |
| 6                                    | 1.8               | 7.1      | 266.0       | 174.0           | 15.0       | 7.47                   | 4.0      | 5.0            | 15.0       | 2.60         |                  |                              |         |      |  |
| 7                                    | 1.8               | 7.69     |             |                 | 14.6       | 7.10                   |          |                | 14.0       | 2.80         |                  |                              |         |      |  |
| 8                                    | 1.8               | 7.68     |             |                 | 15.7       | 6.98                   |          |                | 13.3       | 2.55         |                  | .32                          |         |      |  |
| 9                                    | 1.0               | 7.21     |             |                 | 12.2       | 7.44                   |          |                | 14.1       | 5.53         |                  |                              |         |      |  |
| 10                                   | 1.4               | 7.45     |             |                 | 15.3       | 7.11                   |          |                | 14.5       | 3.63         |                  | .40                          |         |      |  |
| 11                                   | 2.1               | 7.37     |             |                 | 14.6       | 7.14                   |          |                | 13.0       | 2.85         |                  |                              |         |      |  |
| 12                                   | 1.7               | 7.76     |             |                 | 13.0       | 7.22                   |          |                | 11.5       | 4.33         |                  |                              |         |      |  |
| 13                                   | 1.2               | 7.50     |             |                 | 14.2       | 7.00                   |          |                | 11.8       | 3.38         | 1.0              | .31                          |         |      |  |
| 14                                   | 1.9               | 8.55     | 157.0       | 168.0           | 15.4       | 7.16                   | 12.5     | 9.0            | 12.7       | 4.08         |                  |                              |         |      |  |
| 15                                   | 1.9               | 7.63     |             |                 | 12.7       | 7.27                   |          |                | 11.0       | 3.30         |                  |                              |         |      |  |
| 16                                   | 1.0               | 7.58     |             |                 | 11.5       | 7.21                   |          |                | 13.0       | 3.56         |                  | .02                          |         |      |  |
| 17                                   | 1.4               | 7.53     |             |                 | 11.8       | 7.17                   |          |                | 11.0       | 4.17         |                  |                              |         |      |  |
| 18                                   | 1.7               | 8.20     |             |                 | 13.3       | 7.30                   |          |                | 13.0       | 3.52         |                  |                              |         |      |  |
| 19                                   | 1.3               | 7.91     |             |                 | 12.2       | 7.67                   |          |                | 13.6       | 3.43         |                  | .01                          |         |      |  |
| 20                                   | 1.4               | 7.94     | 348.0       | 160.0           | 7.0        | 7.69                   | 4.4      | 5.0            | 9.9        | 2.50         |                  |                              |         |      |  |
| 21                                   | 2.0               | 7.88     |             |                 | 11.3       | 7.60                   |          |                | 10.0       | 2.38         |                  | .30                          |         |      |  |
| 22                                   | 1.9               | 7.95     |             |                 | 11.4       | 7.65                   |          |                | 11.0       | 2.78         |                  | .63                          |         |      |  |
| 23                                   | 1.8               | 7.88     |             |                 | 10.2       | 7.75                   |          |                | 10.5       | 3.72         |                  |                              |         |      |  |
| 24                                   | 1.8               | 7.92     |             |                 | 10.0       | 7.59                   |          |                | 9.7        | 7.96         |                  |                              |         |      |  |
| 25                                   | 2.2               | 8.47     |             |                 | 10.0       | 7.66                   |          |                | 10.0       | 5.25         |                  |                              |         |      |  |
| 26                                   | 2.2               | 8.07     |             |                 | 10.5       | 7.39                   |          |                | 9.5        | 2.83         | 4.0              | .81                          |         |      |  |
| 27                                   | 3.0               | 7.88     |             |                 | 10.1       | 7.46                   |          |                | 9.3        | 2.35         |                  | .01                          |         |      |  |
| 28                                   | 2.5               | 8.11     | 181.0       | 124.0           | 10.8       | 7.48                   | 8.6      | 5.0            | 10.2       | 4.07         |                  |                              |         |      |  |
| 29                                   |                   |          |             |                 |            |                        |          |                |            |              |                  |                              |         |      |  |
| 30                                   |                   |          |             |                 |            |                        |          |                |            |              |                  |                              |         |      |  |
| 31                                   |                   |          |             |                 |            |                        |          |                |            |              |                  |                              |         |      |  |
| No. of Samp.                         | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0                   | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                              |         |      |  |
| Tot of Samp.                         | 49.9              |          | 952.0       | 626.0           | 347.5      | 206.6                  | 29.5     | 24.0           | 332.4      | 104.7        | 0.0              |                              |         |      |  |
| Monthly Avg.                         | 1.8               |          | 238.0       | 156.5           |            |                        | 7.4      | 6.0            |            |              | #DIV/0!          |                              |         |      |  |
| Daily Max.                           | 3.0               | 8.6      | 348.0       | 174.0           | 16.0       | 7.8                    | 12.5     | 9.0            | 15.0       | 8.0          | 0.0              |                              |         |      |  |
| Daily Min.                           |                   | 7.1      |             |                 | 7.0        | 7.0                    |          |                | 9.3        | 2.4          | 0.0              |                              |         |      |  |
| Max 7/Avg.                           |                   |          |             |                 |            |                        |          |                |            |              |                  |                              |         |      |  |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                  | COUNTY/REGION           |      |         |      |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|------------------|-------------------------|------|---------|------|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                  | SPRINGFIELD             |      |         |      |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                  | TYPE TREATMENT FACILITY |      |         |      |  |  |
| FEBRUARY-2014    |                   |          |             |                 |            | MO# 0104908   |          |                |            |              |                  | OXI-DATION DITCH        |      |         |      |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                  |                         |      |         |      |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | SNOW                    | RAIN | WEATHER | TIME |  |  |
| 1                | 1.30              | 7.35     |             |                 | 11.4       | 7.28          |          |                | 11.0       | 7.78         |                  |                         | 0.11 |         |      |  |  |
| 2                | 1.36              | 7.35     |             |                 | 11.4       | 7.20          |          |                | 10.7       | 4.44         |                  |                         |      |         |      |  |  |
| 3                | 1.52              | 7.38     |             |                 | 11.5       | 7.06          |          |                | 10.6       | 5.79         |                  |                         |      |         |      |  |  |
| 4                | 1.20              | 7.66     |             |                 | 9.7        | 7.29          |          |                | 9.5        | 6.60         |                  |                         | 0.01 |         |      |  |  |
| 5                | 1.0               | 7.70     |             |                 | 7.3        | 7.42          |          |                | 10.6       | 8.52         |                  | 2.0                     | 0.2  |         |      |  |  |
| 6                | 1.0               | 7.71     |             |                 | 8.3        | 7.40          |          |                | 7.9        | 8.81         |                  |                         |      |         |      |  |  |
| 7                | 1.40              | 8.21     | 196.0       | 410.0           | 9.0        | 7.46          | 13.4     | 13.0           | 7.6        | 8.74         |                  |                         |      |         |      |  |  |
| 8                | 1.50              | 7.64     |             |                 | 10.4       | 7.23          |          |                | 9.2        | 7.14         |                  |                         |      |         |      |  |  |
| 9                | 1.40              | 7.58     |             |                 | 9.6        | 7.39          |          |                | 9.0        | 6.47         |                  |                         |      |         |      |  |  |
| 10               | 1.40              | 7.70     |             |                 | 9.8        | 7.07          |          |                | 8.6        | 6.87         |                  |                         | 0.01 |         |      |  |  |
| 11               | 2.20              | 7.77     |             |                 | 10.2       | 7.21          |          |                | 8.9        | 5.03         |                  |                         |      |         |      |  |  |
| 12               | 1.0               | 8.93     |             |                 | 11.0       | 7.15          |          |                | 9.0        | 5.82         |                  |                         |      |         |      |  |  |
| 13               | 1.40              | 7.04     | 212         | 360             | 14.2       | 7.26          | 63.6     | 21.0           | 11.2       | 4.92         |                  |                         |      |         |      |  |  |
| 14               | 1.90              | 7.62     |             |                 | 10.0       | 7.22          |          |                | 10.9       | 5.26         |                  |                         |      |         |      |  |  |
| 15               | 1.20              | 7.12     |             |                 | 9.1        | 7.27          |          |                | 8.9        | 4.95         |                  |                         |      |         |      |  |  |
| 16               | 1.20              | 7.33     |             |                 | 10.8       | 7.28          |          |                | 9.5        | 3.59         |                  |                         |      |         |      |  |  |
| 17               | 1.30              | 7.41     |             |                 | 13.1       | 7.30          |          |                | 12.1       | 3.79         |                  |                         |      |         |      |  |  |
| 18               | 1.00              | 7.54     |             |                 | 18.8       | 7.40          |          |                | 14.0       | 4.05         |                  |                         |      |         |      |  |  |
| 19               | 1.40              | 9.21     | 39.2        | 594.0           | 14.7       | 7.33          | 2.0      | 16.0           | 14.0       | 5.75         |                  |                         |      |         |      |  |  |
| 20               | 1.50              | 8.34     |             |                 | 14.1       | 7.40          |          |                | 12.0       | 6.94         |                  |                         | 0.09 |         |      |  |  |
| 21               | 1.10              | 7.76     |             |                 | 13.3       | 7.32          |          |                | 11.0       | 3.07         |                  |                         |      |         |      |  |  |
| 22               | 1.10              | 7.71     |             |                 | 11.7       | 7.02          |          |                | 11.7       | 5.38         |                  |                         |      |         |      |  |  |
| 23               | 1.20              | 7.95     |             |                 | 11.1       | 7.18          |          |                | 11.3       | 5.06         |                  |                         |      |         |      |  |  |
| 24               | 1.80              | 7.67     |             |                 | 13.1       | 7.35          |          |                | 12.7       | 4.00         |                  |                         |      |         |      |  |  |
| 25               | 1.90              | 8.04     |             |                 | 12.6       | 7.52          |          |                | 10.8       | 6.09         |                  |                         |      |         |      |  |  |
| 26               | 1.00              | 8.21     | 137.0       | 396.0           | 10.2       | 7.50          | 12.3     | 20.0           | 9.7        | 7.37         |                  |                         |      |         |      |  |  |
| 27               | 2.00              | 7.67     |             |                 | 14.0       | 7.46          |          |                | 11.0       | 5.25         |                  |                         |      |         |      |  |  |
| 28               | 2.70              | 7.95     |             |                 | 10.6       | 7.37          |          |                | 11.3       | 7.20         |                  |                         |      |         |      |  |  |
| 29               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |
| 30               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |
| 31               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |
| to. of Samp.     | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0          | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                         |      |         |      |  |  |
| ot of Samp.      | 40.0              |          | 584.2       | 1760.0          | 321.0      | 204.3         | 91.3     | 70.0           | 294.7      | 164.7        | 0.0              |                         |      |         |      |  |  |
| ortnly Avg.      | 1.4               |          | 146.1       | 440.0           |            |               | 22.8     | 17.5           |            |              | #DIV/0!          |                         |      |         |      |  |  |
| aily Max.        | 2.7               | 9.2      | 212.0       | 594.0           | 18.8       | 7.5           | 63.6     | 21.0           | 14.0       | 8.8          | 0.0              |                         |      |         |      |  |  |
| aily Min.        |                   | 7.0      |             |                 | 7.3        | 7.0           |          |                | 7.6        | 3.1          | 0.0              |                         |      |         |      |  |  |
| ax 7/Avg.        |                   |          |             |                 |            |               |          |                |            |              |                  |                         |      |         |      |  |  |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

0 780-1306 (6-03)



## ANALYTICAL RESULTS

Project: SHOAL 2/13/14  
Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]      Lab ID: 60162938001      Collected: 02/13/14 07:15      Received: 02/13/14 18:40      Matrix: Water |                                                               |       |              |    |                |                |         |      |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------|--------------|----|----------------|----------------|---------|------|
| Parameters                                                                                                                           | Results                                                       | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids                                                                                                         | Analytical Method: SM 2540D                                   |       |              |    |                |                |         |      |
| Total Suspended Solids                                                                                                               | 360                                                           | mg/L  | 5.0          | 1  |                | 02/19/14 11:08 |         |      |
| 5210B BOD, 5 day                                                                                                                     | Analytical Method: SM 5210B      Preparation Method: SM 5210B |       |              |    |                |                |         |      |
| BOD, 5 day                                                                                                                           | 212                                                           | mg/L  | 2.0          | 1  | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]      Lab ID: 60162938002      Collected: 02/13/14 07:30      Received: 02/13/14 18:40      Matrix: Water |                                                               |       |              |    |                |                |           |      |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------|--------------|----|----------------|----------------|-----------|------|
| Parameters                                                                                                                           | Results                                                       | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids                                                                                                         | Analytical Method: SM 2540D                                   |       |              |    |                |                |           |      |
| Total Suspended Solids                                                                                                               | 21.0                                                          | mg/L  | 5.0          | 1  |                | 02/19/14 11:09 |           |      |
| 5210B BOD, 5 day                                                                                                                     | Analytical Method: SM 5210B      Preparation Method: SM 5210B |       |              |    |                |                |           |      |
| BOD, 5 day                                                                                                                           | 63.6                                                          | mg/L  | 2.0          | 1  | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| 350.1 Ammonia                                                                                                                        | Analytical Method: EPA 350.1                                  |       |              |    |                |                |           |      |
| Nitrogen, Ammonia                                                                                                                    | 0.12                                                          | mg/L  | 0.10         | 1  |                | 02/18/14 13:20 | 7664-41-7 |      |

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Date: 02/24/2014 10:07 AM

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## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60200938

| Sample: SHOAL INFLUENT A1      Lab ID: 60200938001      Collected: 08/19/15 07:30      Received: 08/19/15 18:25      Matrix: Water |         |       |              |     |    |                |                |         |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-----|----|----------------|----------------|---------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL | DF | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |     |    |                |                |         |      |
| Total Suspended Solids                                                                                                             | 120     | mg/L  | 5.0          | 5.0 | 1  |                | 08/24/15 12:01 |         |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |     |    |                |                |         |      |
| BOD, 5 day                                                                                                                         | 28.9    | mg/L  | 2.0          | 2.0 | 1  | 08/20/15 11:42 | 08/25/15 11:12 |         | 1e   |

| Sample: SHOAL EFFLUENT C2      Lab ID: 60200938002      Collected: 08/19/15 08:00      Received: 08/19/15 18:25      Matrix: Water |         |       |              |       |    |                |                |           |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|-----------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |       |    |                |                |           |      |
| Total Suspended Solids                                                                                                             | 128     | mg/L  | 5.0          | 5.0   | 1  |                | 08/24/15 12:01 |           |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |       |    |                |                |           |      |
| BOD, 5 day                                                                                                                         | 53.1    | mg/L  | 2.0          | 2.0   | 1  | 08/20/15 11:45 | 08/25/15 11:16 |           |      |
| 350.1 Ammonia      Analytical Method: EPA 350.1                                                                                    |         |       |              |       |    |                |                |           |      |
| Nitrogen, Ammonia                                                                                                                  | 3.1     | mg/L  | 0.20         | 0.093 | 2  |                | 08/25/15 10:16 | 7664-41-7 |      |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                     |                   |          |             |                 |       |                              |          |                 |            |              |                                             |       |      |         |      |
|-------------------------------------|-------------------|----------|-------------|-----------------|-------|------------------------------|----------|-----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| NAME OF FACILITY<br>Hick Creek WWTP |                   |          |             |                 |       | CITY<br>NEOSHO               |          |                 |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
| THE MONTH OF<br>1st-08 015          |                   |          |             |                 |       | PERMIT NUMBER<br>MO# 0104908 |          |                 |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| OUTFALL NUMBER<br>#001              |                   |          |             |                 |       | EFFLUENT                     |          |                 |            |              |                                             |       |      |         |      |
|                                     | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS                     | BOD mg/L | SUSP.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                   | 1.6               | 7.38     |             |                 | 22.5  | 7.60                         |          |                 | 24.5       | 3.44         | In/Lab                                      |       | 0.00 |         |      |
| 2                                   | 1.0               | 7.79     |             |                 | 23.4  | 7.59                         |          |                 | 25.0       | 3.60         | in                                          |       | 0.00 |         |      |
| 3                                   | 1.2               | 7.94     |             |                 | 24.2  | 7.60                         |          |                 | 24.5       | 3.42         | house                                       |       | 0.00 |         |      |
| 4                                   | 1.7               | 7.79     |             |                 | 24.4  | 7.58                         |          |                 | 24.7       | 3.56         |                                             |       | 0.00 |         |      |
| 5                                   | 3.1               | 7.28     | 260.0       | 104.0           | 22.5  | 7.60                         | 2.7      | 5.0             | 24.3       | 3.27         | 25.0                                        |       | 0.43 |         |      |
| 6                                   | 1.9               | 7.79     |             |                 | 22.4  | 7.34                         |          |                 | 24.3       | 4.58         |                                             |       | 0.26 |         |      |
| 7                                   | 1.0               | 7.39     |             |                 | 23.3  | 7.29                         |          |                 | 23.2       | 3.92         |                                             |       | 0.00 |         |      |
| 8                                   | 1.3               | 8.17     |             |                 | 23.4  | 7.75                         |          |                 | 25.3       | 4.77         |                                             |       | 0.00 |         |      |
| 9                                   | 1.1               | 7.43     |             |                 | 23.1  | 7.65                         |          |                 | 25.2       | 4.49         |                                             |       | 0.00 |         |      |
| 10                                  | 1.6               | 7.34     |             |                 | 27.0  | 7.48                         |          |                 | 26.6       | 4.28         |                                             |       | 0.16 |         |      |
| 11                                  | 1.4               | 7.51     |             |                 | 26.1  | 7.67                         |          |                 | 26.7       | 3.90         |                                             |       | 0.10 |         |      |
| 12                                  | 2.6               | 7.41     | 520.0       | 294.0           | 26.5  | 7.63                         | 4.2      | 9.0             | 26.0       | 4.75         | 80.0                                        |       | 0.00 |         |      |
| 13                                  | 1.6               | 7.58     |             |                 | 27.2  | 7.52                         |          |                 | 26.8       | 3.84         |                                             |       | 0.00 |         |      |
| 14                                  | 1.5               | 7.16     |             |                 | 26.6  | 7.61                         |          |                 | 26.7       | 6.50         |                                             |       | 0.00 |         |      |
| 15                                  | 1.3               | 7.43     |             |                 | 23.2  | 7.58                         |          |                 | 23.7       | 5.48         |                                             |       | 0.00 |         |      |
| 16                                  | 1.2               | 7.23     |             |                 | 23.5  | 7.66                         |          |                 | 23.7       | 3.72         |                                             |       | 0.00 |         |      |
| 17                                  | 1.5               | 7.60     |             |                 | 23.2  | 7.51                         |          |                 | 24.5       | 3.05         |                                             |       | 0.00 |         |      |
| 18                                  | 1.6               | 7.61     |             |                 | 23.5  | 7.58                         |          |                 | 24.6       | 4.82         |                                             |       | 0.55 |         |      |
| 19                                  | 3.1               | 7.01     | 28.9        | 120.0           | 22.1  | 7.40                         | 53.1     | 128.0           | 23.2       | 3.61         | 68.0                                        |       | 3.70 |         |      |
| 20                                  | 2.9               | 7.20     |             |                 | 21.5  | 7.11                         |          |                 | 22.6       | 5.06         |                                             |       | 0.10 |         |      |
| 21                                  | 2.7               | 7.39     |             |                 | 21.6  | 7.56                         |          |                 | 22.4       | 3.86         |                                             |       | 0.00 |         |      |
| 22                                  | 2.4               | 7.68     |             |                 | 21.8  | 7.59                         |          |                 | 22.5       | 4.72         |                                             |       | 0.18 |         |      |
| 23                                  | 4.3               | 7.19     |             |                 | 21.8  | 7.47                         |          |                 | 22.6       | 2.60         |                                             |       | 1.18 |         |      |
| 24                                  | 3.4               | 7.28     |             |                 | 23.3  | 7.47                         |          |                 | 23.3       | 3.36         |                                             |       | 0.00 |         |      |
| 25                                  | 2.2               | 7.34     | 307.0       | 365.0           | 22.3  | 7.44                         | 2.0      | 5.0             | 23.0       | 2.53         | 10.0                                        |       | 0.00 |         |      |
| 26                                  | 1.5               | 7.19     |             |                 | 20.1  | 7.55                         |          |                 | 21.3       | 3.55         |                                             |       | 0.00 |         |      |
| 27                                  | 1.4               | 7.24     |             |                 | 21.1  | 7.51                         |          |                 | 22.3       | 5.44         |                                             |       | 0.00 |         |      |
| 28                                  | 1.3               | 7.31     |             |                 | 21.1  | 7.53                         |          |                 | 22.2       | 6.45         |                                             |       | 0.00 |         |      |
| 29                                  | 1.7               | 7.25     |             |                 | 21.2  | 7.55                         |          |                 | 22.4       | 6.50         |                                             |       | 0.00 |         |      |
| 30                                  | 1.8               | 7.30     |             |                 | 21.1  | 7.55                         |          |                 | 22.3       | 6.20         |                                             |       | 0.00 |         |      |
| 31                                  | 1.7               | 7.44     |             |                 | 22.3  | 7.56                         |          |                 | 22.7       | 5.68         |                                             |       | 0.00 |         |      |
| Samp.                               |                   |          |             |                 |       |                              |          |                 |            |              |                                             |       |      |         |      |
| Samp.                               | 58.6              | 230.7    | 1115.9      | 883.0           | 717.3 | 233.5                        | 62.0     | 147.0           |            | 135.0        |                                             |       |      |         |      |
| y Avg.                              | 3.3               |          | #DIV/0!     | #DIV/0!         |       |                              | #DIV/0!  | #DIV/0!         | #DIV/0!    | #DIV/0!      |                                             |       |      |         |      |
| Max.                                | 4.3               | 8.2      | 520.0       | 365.0           | 27.2  | 7.8                          | 53.1     | 128.0           | 26.8       | 6.5          | 80.0                                        |       |      |         |      |
| Min.                                | 1.0               | 7.0      |             |                 | 20.1  | 7.1                          |          |                 | 21.3       | 2.5          | 10.0                                        |       |      |         |      |
| Avg.                                |                   |          |             |                 |       |                              |          |                 |            |              |                                             |       |      |         |      |

SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

1308 (8-03)



## ANALYTICAL RESULTS

Project: SHOAL 2/14/13  
Pace Project No.: 60138809

| Sample: SHOAL INF-(A1)              |         | Lab ID: 60138809001                                      | Collected: 02/14/13 07:10 | Received: 02/14/13 18:24 | Matrix: Water |                |                |         |      |
|-------------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|---------------|----------------|----------------|---------|------|
| Parameters                          | Results | Units                                                    | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |                           |                          |               |                |                |         |      |
| Total Suspended Solids              | 168     | mg/L                                                     | 5.0                       | 5.0                      | 1             |                | 02/19/13 09:17 |         |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |               |                |                |         |      |
| BOD, 5 day                          | 157     | mg/L                                                     | 2.0                       | 2.0                      | 1             | 02/15/13 15:38 | 02/20/13 14:10 |         |      |

| Sample: SHOAL EFFLUENT (C2)         |         | Lab ID: 60138809002                                      | Collected: 02/14/13 07:30 | Received: 02/14/13 18:24 | Matrix: Water |                |                |           |      |
|-------------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                          | Results | Units                                                    | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |                           |                          |               |                |                |           |      |
| Total Suspended Solids              | 9.0     | mg/L                                                     | 5.0                       | 5.0                      | 1             |                | 02/19/13 09:17 |           |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |               |                |                |           |      |
| BOD, 5 day                          | 12.5    | mg/L                                                     | 2.0                       | 2.0                      | 1             | 02/15/13 15:56 | 02/20/13 14:20 |           |      |
| <b>350.1 Ammonia</b>                |         | Analytical Method: EPA 350.1                             |                           |                          |               |                |                |           |      |
| Nitrogen, Ammonia                   | ND      | mg/L                                                     | 0.10                      | 0.034                    | 1             |                | 02/19/13 14:09 | 7664-41-7 |      |

Date: 02/27/2013 10:54 AM

## REPORT OF LABORATORY ANALYSIS

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>SHOAL CREEK WWTP<br>FOR THE MONTH OF<br>February-13 |                   |          |             |                 |            | CITY<br>NEOSHO<br>PERMIT NUMBER<br>MO# 0104908 |          |                |            |              |                  | COUNTY/REGION<br>SPRINGFIELD<br>TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |         |      |  |
|-------------------------------------------------------------------------|-------------------|----------|-------------|-----------------|------------|------------------------------------------------|----------|----------------|------------|--------------|------------------|-----------------------------------------------------------------------------|---------|------|--|
| INFLUENT                                                                |                   |          |             |                 |            | EFFLUENT                                       |          |                |            |              |                  |                                                                             |         |      |  |
| DAY                                                                     | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                                       | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | RAIN                                                                        | WEATHER | TIME |  |
| 1                                                                       | 2.6               | 7.67     |             |                 | 11.4       | 7.34                                           |          |                | 11.6       | 3.20         |                  | 3.3                                                                         | .03     |      |  |
| 2                                                                       | 1.4               | 7.57     |             |                 | 11.3       | 7.38                                           |          |                | 11.5       | 5.70         |                  |                                                                             |         |      |  |
| 3                                                                       | 1.6               | 7.66     |             |                 | 10.5       | 7.60                                           |          |                | 11.4       | 4.17         |                  |                                                                             |         |      |  |
| 4                                                                       | 1.8               | 7.56     |             |                 | 16.0       | 7.39                                           |          |                | 13.0       | 2.75         |                  |                                                                             | .06     |      |  |
| 5                                                                       | 1.7               | 7.90     |             |                 | 15.5       | 7.40                                           |          |                | 13.3       | 5.33         |                  |                                                                             |         |      |  |
| 6                                                                       | 1.8               | 7.1      | 266.0       | 174.0           | 15.0       | 7.47                                           | 4.0      | 5.0            | 15.0       | 2.60         |                  |                                                                             |         |      |  |
| 7                                                                       | 1.8               | 7.69     |             |                 | 14.6       | 7.10                                           |          |                | 14.0       | 2.80         |                  |                                                                             |         |      |  |
| 8                                                                       | 1.8               | 7.68     |             |                 | 15.7       | 6.98                                           |          |                | 13.3       | 2.55         |                  |                                                                             | .32     |      |  |
| 9                                                                       | 1.0               | 7.21     |             |                 | 12.2       | 7.44                                           |          |                | 14.1       | 5.53         |                  |                                                                             |         |      |  |
| 10                                                                      | 1.4               | 7.45     |             |                 | 15.3       | 7.11                                           |          |                | 14.5       | 3.63         |                  |                                                                             | .40     |      |  |
| 11                                                                      | 2.1               | 7.37     |             |                 | 14.6       | 7.14                                           |          |                | 13.0       | 2.85         |                  |                                                                             |         |      |  |
| 12                                                                      | 1.7               | 7.76     |             |                 | 13.0       | 7.22                                           |          |                | 11.5       | 4.33         |                  |                                                                             |         |      |  |
| 13                                                                      | 1.2               | 7.50     |             |                 | 14.2       | 7.00                                           |          |                | 11.8       | 3.38         |                  | 1.0                                                                         | .31     |      |  |
| 14                                                                      | 1.9               | 8.55     | 157.0       | 168.0           | 15.4       | 7.16                                           | 12.5     | 9.0            | 12.7       | 4.08         |                  |                                                                             |         |      |  |
| 15                                                                      | 1.9               | 7.63     |             |                 | 12.7       | 7.27                                           |          |                | 11.0       | 3.30         |                  |                                                                             |         |      |  |
| 16                                                                      | 1.0               | 7.58     |             |                 | 11.5       | 7.21                                           |          |                | 13.0       | 3.58         |                  |                                                                             | .02     |      |  |
| 17                                                                      | 1.4               | 7.53     |             |                 | 11.8       | 7.17                                           |          |                | 11.0       | 4.17         |                  |                                                                             |         |      |  |
| 18                                                                      | 1.7               | 8.20     |             |                 | 13.3       | 7.30                                           |          |                | 13.0       | 3.52         |                  |                                                                             |         |      |  |
| 19                                                                      | 1.3               | 7.91     |             |                 | 12.2       | 7.67                                           |          |                | 13.6       | 3.43         |                  |                                                                             | .01     |      |  |
| 20                                                                      | 1.4               | 7.94     | 348.0       | 160.0           | 7.0        | 7.69                                           | 4.4      | 5.0            | 9.9        | 2.50         |                  |                                                                             |         |      |  |
| 21                                                                      | 2.0               | 7.88     |             |                 | 11.3       | 7.60                                           |          |                | 10.0       | 2.38         |                  |                                                                             | .30     |      |  |
| 22                                                                      | 1.9               | 7.95     |             |                 | 11.4       | 7.65                                           |          |                | 11.0       | 2.78         |                  |                                                                             | .63     |      |  |
| 23                                                                      | 1.8               | 7.88     |             |                 | 10.2       | 7.75                                           |          |                | 10.5       | 3.72         |                  |                                                                             |         |      |  |
| 24                                                                      | 1.8               | 7.92     |             |                 | 10.0       | 7.59                                           |          |                | 9.7        | 7.96         |                  |                                                                             |         |      |  |
| 25                                                                      | 2.2               | 8.47     |             |                 | 10.0       | 7.66                                           |          |                | 10.0       | 5.25         |                  |                                                                             |         |      |  |
| 26                                                                      | 2.2               | 8.07     |             |                 | 10.5       | 7.39                                           |          |                | 9.5        | 2.83         |                  | 4.0                                                                         | .81     |      |  |
| 27                                                                      | 3.0               | 7.88     |             |                 | 10.1       | 7.46                                           |          |                | 9.3        | 2.35         |                  |                                                                             | .01     |      |  |
| 28                                                                      | 2.5               | 8.11     | 181.0       | 124.0           | 10.8       | 7.48                                           | 8.6      | 5.0            | 10.2       | 4.07         |                  |                                                                             |         |      |  |
| 29                                                                      |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |         |      |  |
| 30                                                                      |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |         |      |  |
| 31                                                                      |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |         |      |  |
| No. of Samp.                                                            | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0                                           | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                                                                             |         |      |  |
| Tot of Samp.                                                            | 49.9              |          | 952.0       | 626.0           | 347.5      | 206.6                                          | 29.5     | 24.0           | 332.4      | 104.7        | 0.0              |                                                                             |         |      |  |
| Monthly Avg.                                                            | 1.8               |          | 238.0       | 156.5           |            |                                                | 7.4      | 6.0            |            |              | #DIV/0!          |                                                                             |         |      |  |
| Daily Max.                                                              | 3.0               | 8.6      | 348.0       | 174.0           | 16.0       | 7.8                                            | 12.5     | 9.0            | 15.0       | 8.0          | 0.0              |                                                                             |         |      |  |
| Daily Min.                                                              |                   | 7.1      |             |                 | 7.0        | 7.0                                            |          |                | 9.3        | 2.4          | 0.0              |                                                                             |         |      |  |
| Max 7/Avg.                                                              |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |         |      |  |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

MO 780-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |  |  |  |                               |  |  |  |                                                    |  |  |  |
|---------------------------------------------|--|--|--|-------------------------------|--|--|--|----------------------------------------------------|--|--|--|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |  |  |  | CITY<br><b>NEOSHO</b>         |  |  |  | COUNTY/REGION<br><b>SPRINGFIELD</b>                |  |  |  |
| FOR THE MONTH OF<br><b>FEBRUARY-2014</b>    |  |  |  | OUTFALL NUMBER<br><b>#001</b> |  |  |  | PERMIT NUMBER<br><b>MO# 0104908</b>                |  |  |  |
|                                             |  |  |  |                               |  |  |  | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |  |  |  |

| DAY          | INFLUENT          |          |             |                 |            |          | EFFLUENT |                |            |              |                  |      |      |         |      |
|--------------|-------------------|----------|-------------|-----------------|------------|----------|----------|----------------|------------|--------------|------------------|------|------|---------|------|
|              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | SNOW | RAIN | WEATHER | TIME |
| 1            | 1.30              | 7.35     |             |                 | 11.4       | 7.28     |          |                | 11.0       | 7.78         |                  |      | 0.11 |         |      |
| 2            | 1.36              | 7.35     |             |                 | 11.4       | 7.20     |          |                | 10.7       | 4.44         |                  |      |      |         |      |
| 3            | 1.52              | 7.38     |             |                 | 11.5       | 7.06     |          |                | 10.6       | 5.79         |                  |      |      |         |      |
| 4            | 1.20              | 7.66     |             |                 | 9.7        | 7.29     |          |                | 9.5        | 6.60         |                  |      | 0.01 |         |      |
| 5            | 1.0               | 7.70     |             |                 | 7.3        | 7.42     |          |                | 10.6       | 8.52         |                  | 2.0  | 0.2  |         |      |
| 6            | 1.0               | 7.71     |             |                 | 8.3        | 7.40     |          |                | 7.9        | 8.81         |                  |      |      |         |      |
| 7            | 1.40              | 8.21     | 196.0       | 410.0           | 9.0        | 7.46     | 13.4     | 13.0           | 7.6        | 8.74         |                  |      |      |         |      |
| 8            | 1.50              | 7.64     |             |                 | 10.4       | 7.23     |          |                | 9.2        | 7.14         |                  |      |      |         |      |
| 9            | 1.40              | 7.58     |             |                 | 9.6        | 7.39     |          |                | 9.0        | 6.47         |                  |      |      |         |      |
| 10           | 1.40              | 7.70     |             |                 | 9.8        | 7.07     |          |                | 8.6        | 6.87         |                  |      | 0.01 |         |      |
| 11           | 2.20              | 7.77     |             |                 | 10.2       | 7.21     |          |                | 8.9        | 5.03         |                  |      |      |         |      |
| 12           | 1.0               | 8.93     |             |                 | 11.0       | 7.15     |          |                | 9.0        | 5.82         |                  |      |      |         |      |
| 13           | 1.40              | 7.04     | 212         | 360             | 14.2       | 7.26     | 63.6     | 21.0           | 11.2       | 4.92         |                  |      |      |         |      |
| 14           | 1.90              | 7.62     |             |                 | 10.0       | 7.22     |          |                | 10.9       | 5.26         |                  |      |      |         |      |
| 15           | 1.20              | 7.12     |             |                 | 9.1        | 7.27     |          |                | 8.9        | 4.95         |                  |      |      |         |      |
| 16           | 1.20              | 7.33     |             |                 | 10.8       | 7.28     |          |                | 9.5        | 3.59         |                  |      |      |         |      |
| 17           | 1.30              | 7.41     |             |                 | 13.1       | 7.30     |          |                | 12.1       | 3.79         |                  |      |      |         |      |
| 18           | 1.00              | 7.54     |             |                 | 18.8       | 7.40     |          |                | 14.0       | 4.05         |                  |      |      |         |      |
| 19           | 1.40              | 9.21     | 39.2        | 594.0           | 14.7       | 7.33     | 2.0      | 16.0           | 14.0       | 5.75         |                  |      |      |         |      |
| 20           | 1.50              | 8.34     |             |                 | 14.1       | 7.40     |          |                | 12.0       | 6.94         |                  |      | 0.09 |         |      |
| 21           | 1.10              | 7.76     |             |                 | 13.3       | 7.32     |          |                | 11.0       | 3.07         |                  |      |      |         |      |
| 22           | 1.10              | 7.71     |             |                 | 11.7       | 7.02     |          |                | 11.7       | 5.38         |                  |      |      |         |      |
| 23           | 1.20              | 7.95     |             |                 | 11.1       | 7.18     |          |                | 11.3       | 5.06         |                  |      |      |         |      |
| 24           | 1.80              | 7.67     |             |                 | 13.1       | 7.35     |          |                | 12.7       | 4.00         |                  |      |      |         |      |
| 25           | 1.90              | 8.04     |             |                 | 12.6       | 7.52     |          |                | 10.8       | 6.09         |                  |      |      |         |      |
| 26           | 1.00              | 8.21     | 137.0       | 396.0           | 10.2       | 7.50     | 12.3     | 20.0           | 9.7        | 7.37         |                  |      |      |         |      |
| 27           | 2.00              | 7.67     |             |                 | 14.0       | 7.46     |          |                | 11.0       | 5.25         |                  |      |      |         |      |
| 28           | 2.70              | 7.95     |             |                 | 10.6       | 7.37     |          |                | 11.3       | 7.20         |                  |      |      |         |      |
| 29           |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |
| 30           |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |
| 31           |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |
| Mo. of Samp. | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0     | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |      |      |         |      |
| tot of Samp. | 40.0              |          | 584.2       | 1760.0          | 321.0      | 204.3    | 91.3     | 70.0           | 294.7      | 164.7        | 0.0              |      |      |         |      |
| Monthly Avg. | 1.4               |          | 146.1       | 440.0           |            |          | 22.8     | 17.5           |            |              | #DIV/0!          |      |      |         |      |
| Daily Max.   | 2.7               | 9.2      | 212.0       | 594.0           | 18.8       | 7.5      | 63.6     | 21.0           | 14.0       | 8.8          | 0.0              |      |      |         |      |
| Daily Min.   |                   | 7.0      |             |                 | 7.3        | 7.0      |          |                | 7.6        | 3.1          | 0.0              |      |      |         |      |
| Max 7/Avg.   |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: SHOAL 2/13/14

Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]  |         | Lab ID: 60162938001                                      | Collected: 02/13/14 07:15 | Received: 02/13/14 18:40 | Matrix: Water  |                |         |      |
|------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                   | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids |         | Analytical Method: SM 2540D                              |                           |                          |                |                |         |      |
| Total Suspended Solids       | 360     | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:08 |         |      |
| 5210B BOD, 5 day             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |         |      |
| BOD, 5 day                   | 212     | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]  |         | Lab ID: 60162938002                                      | Collected: 02/13/14 07:30 | Received: 02/13/14 18:40 | Matrix: Water  |                |           |      |
|------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                   | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids |         | Analytical Method: SM 2540D                              |                           |                          |                |                |           |      |
| Total Suspended Solids       | 21.0    | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:09 |           |      |
| 5210B BOD, 5 day             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |           |      |
| BOD, 5 day                   | 63.6    | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| 350.1 Ammonia                |         | Analytical Method: EPA 350.1                             |                           |                          |                |                |           |      |
| Nitrogen, Ammonia            | 0.12    | mg/L                                                     | 0.10                      | 1                        |                | 02/18/14 13:20 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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Date: 02/24/2014 10:07 AM

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |  |  |  |  |  |                               |  |  |  |  |  |                                                    |  |  |  |
|---------------------------------------------|--|--|--|--|--|-------------------------------|--|--|--|--|--|----------------------------------------------------|--|--|--|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |  |  |  |  |  | CITY<br><b>NEOSHO</b>         |  |  |  |  |  | COUNTY/REGION<br><b>SPRINGFIELD</b>                |  |  |  |
| FOR THE MONTH OF<br><b>November 2014</b>    |  |  |  |  |  | OUTFALL NUMBER<br><b>#001</b> |  |  |  |  |  | PERMIT NUMBER<br><b>MO# 0104906</b>                |  |  |  |
|                                             |  |  |  |  |  |                               |  |  |  |  |  | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |  |  |  |

| INFLUENT     |                   |          |             |                 |            |          |          |                |            |              |                   |      |      |         |      |
|--------------|-------------------|----------|-------------|-----------------|------------|----------|----------|----------------|------------|--------------|-------------------|------|------|---------|------|
| DAY          | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | SNOW | RAIN | WEATHER | TIME |
| 1            | 1.2               | 7.61     |             |                 | 17.9       | 7.40     |          |                | 16.5       | 5.55         |                   |      |      |         |      |
| 2            | 1.0               | 7.64     |             |                 | 18.6       | 7.61     |          |                | 17.1       | 6.42         |                   |      |      |         |      |
| 3            | 1.1               | 7.51     |             |                 | 18.3       | 7.51     |          |                | 17.6       | 6.07         |                   |      |      |         |      |
| 4            | 3.6               | 7.12     |             |                 | 17.3       | 7.35     |          |                | 16.0       | 3.65         |                   |      | 1.25 |         |      |
| 5            | 2.1               | 7.36     | 133.0       | 60.0            | 18.6       | 7.50     | 3.1      | 5.0            | 16.5       | 3.67         |                   |      | 0.25 |         |      |
| 6            | 1.8               | 7.29     |             |                 | 18.0       | 7.40     |          |                | 17.0       | 3.16         |                   |      |      |         |      |
| 7            | 1.8               | 7.34     |             |                 | 20.0       | 7.48     |          |                | 18.0       | 3.78         |                   |      |      |         |      |
| 8            | 1.2               | 7.30     |             |                 | 19.0       | 7.45     |          |                | 17.0       | 3.52         |                   |      |      |         |      |
| 9            | 1.6               | 7.38     |             |                 | 16.2       | 7.13     |          |                | 15.7       | 4.20         |                   |      |      |         |      |
| 10           | 1.3               | 7.51     |             |                 | 18.9       | 7.42     |          |                | 17.8       | 5.17         |                   |      |      |         |      |
| 11           | 1.8               | 7.38     |             |                 | 17.2       | 7.48     |          |                | 15.1       | 3.54         |                   |      |      |         |      |
| 12           | 1.4               | 7.78     |             |                 | 16.0       | 7.56     |          |                | 13.0       | 2.42         |                   |      |      |         |      |
| 13           | 2.2               | 7.24     | 418.0       | 573.0           | 14.2       | 7.54     | 5.5      | 10.0           | 11.0       | 5.00         |                   |      |      |         |      |
| 14           | 1.4               | 7.28     |             |                 | 14.8       | 7.50     |          |                | 11.4       | 5.12         |                   |      |      |         |      |
| 15           | 1.3               | 7.27     |             |                 | 14.3       | 7.37     |          |                | 12.3       | 5.69         |                   |      |      |         |      |
| 16           | 1.1               | 7.65     |             |                 | 15.1       | 7.47     |          |                | 13.5       | 3.96         |                   |      |      |         |      |
| 17           | 1.3               | 7.33     |             |                 | 13.6       | 7.28     |          |                | 8.6        | 4.15         |                   | 1.0  | 0.07 |         |      |
| 18           | 2.1               | 7.42     |             |                 | 14.8       | 7.40     |          |                | 12.0       | 8.25         |                   |      |      |         |      |
| 19           | 1.5               | 9.44     | 1070.0      | 336.0           | 16.5       | 7.72     | 18.7     | 8.0            | 14.6       | 5.00         |                   |      |      |         |      |
| 20           | 1.4               | 9.33     |             |                 | 16.0       | 7.48     |          |                | 13.7       | 4.00         |                   |      |      |         |      |
| 21           | 1.5               | 7.52     |             |                 | 16.3       | 7.50     |          |                | 15.4       | 6.32         |                   |      |      |         |      |
| 22           | 1.0               | 7.56     |             |                 | 16.4       | 7.57     |          |                | 15.2       | 7.33         |                   |      |      |         |      |
| 23           | 1.7               | 7.42     |             |                 | 17.0       | 7.53     |          |                | 16.3       | 5.57         |                   |      |      |         |      |
| 24           | 1.9               | 7.92     |             |                 | 16.0       | 7.48     |          |                | 16.4       | 4.00         |                   |      | 0.55 |         |      |
| 25           | 2.0               | 7.88     | 459.0       | 372.0           | 16.3       | 7.34     | 7.1      | 5.0            | 15.8       | 4.61         |                   |      |      |         |      |
| 26           | 1.4               | 9.22     |             |                 | 16.0       | 7.50     |          |                | 14.8       | 5.00         |                   |      |      |         |      |
| 27           | 1.7               | 9.34     |             |                 | 13.4       | 7.42     |          |                | 13.9       | 6.73         |                   |      |      |         |      |
| 28           | 1.3               | 9.62     |             |                 | 14.2       | 7.39     |          |                | 14.5       | 6.19         |                   |      |      |         |      |
| 29           | 1.5               | 7.58     |             |                 | 15.2       | 6.82     |          |                | 14.5       | 5.00         |                   |      |      |         |      |
| 30           | 1.6               | 7.27     |             |                 | 15.3       | 6.67     |          |                | 17.7       | 5.03         |                   |      |      |         |      |
| 31           |                   |          |             |                 |            |          |          |                |            |              |                   |      |      |         |      |
|              |                   |          |             |                 |            |          |          |                |            |              |                   |      |      |         |      |
| tot of Samp. | 30.0              | 30.0     | 4.0         | 4.0             | 30.0       | 30.0     | 4.0      | 4.0            | 30.0       | 30.0         | 0.0               |      |      |         |      |
| ot of Samp.  | 47.8              | 233.5    | 2080.0      | 1341.0          | 491.4      | 222.3    | 34.4     | 28.0           | 448.9      | 148.1        | 0.0               |      |      |         |      |
| Monthly Avg. | 1.6               |          | 520.0       | 335.3           |            |          | 8.6      | 7.0            | 15.0       | 4.9          | #DIV/0!           |      |      |         |      |
| Daily Max.   | 3.6               | 9.6      | 1070.0      | 573.0           | 20.0       | 7.7      | 18.7     | 10.0           | 18.0       | 8.3          | 0.0               |      |      |         |      |
| Daily Min.   |                   | 7.1      |             |                 | 13.4       | 6.7      |          |                | 8.6        | 2.4          | 0.0               |      |      |         |      |
| Max 7/Avg.   |                   |          |             |                 |            |          |          |                |            |              |                   |      |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                                     |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
|-----------------------------------------------------|-------------------|----------|-------------|-----------------|-------|------------------------------|----------|----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| NAME OF FACILITY<br>Shoal Creek WWTP                |                   |          |             |                 |       | CITY<br>NEOSHO               |          |                |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
| FOR THE MONTH OF<br>August-14                       |                   |          |             |                 |       | PERMIT NUMBER<br>MO# 0104906 |          |                |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| INFLUENT                                            |                   |          |             |                 |       | EFFLUENT                     |          |                |            |              |                                             |       |      |         |      |
| DAY                                                 | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS                     | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                                   | 1.0               | 7.98     |             |                 | 22.3  | 7.90                         |          |                | 23.0       | 2.50         |                                             |       |      |         |      |
| 2                                                   | 1.2               | 7.93     |             |                 | 21.4  | 7.86                         |          |                | 22.9       | 1.65         |                                             |       |      |         |      |
| 3                                                   | 1.3               | 7.55     |             |                 | 22.3  | 7.81                         |          |                | 23.4       | 1.50         |                                             |       |      |         |      |
| 4                                                   | 1.0               | 7.82     |             |                 | 23.7  | 7.70                         |          |                | 25.5       | 2.36         |                                             |       |      |         |      |
| 5                                                   | 1.1               | 7.55     |             |                 | 27.6  | 7.95                         |          |                | 27.0       | 2.20         |                                             |       |      |         |      |
| 6                                                   | 1.0               | 7.95     | 244.0       | 310.0           | 26.3  | 7.86                         | 2.0      | 5.0            | 27.0       | 7.96         | 5.0                                         |       |      |         |      |
| 7                                                   | 2.3               | 7.60     |             |                 | 24.5  | 7.94                         |          |                | 25.0       | 6.08         |                                             |       | 1.35 |         |      |
| 8                                                   | 1.4               | 9.38     |             |                 | 24.5  | 8.74                         |          |                | 25.0       | 3.03         |                                             |       | 0.25 |         |      |
| 9                                                   | 2.2               | 7.49     |             |                 | 23.6  | 7.74                         |          |                | 23.0       | 2.66         |                                             |       |      |         |      |
| 10                                                  | 1.5               | 7.53     |             |                 | 23.0  | 7.80                         |          |                | 23.9       | 2.44         |                                             |       | 0.25 |         |      |
| 11                                                  | 1.3               | 7.42     |             |                 | 26.2  | 7.68                         |          |                | 25.8       | 4.63         |                                             |       |      |         |      |
| 12                                                  | 1.1               | 7.46     |             |                 | 24.5  | 7.83                         |          |                | 25.0       | 3.05         |                                             |       |      |         |      |
| 13                                                  | 2.0               | 7.54     | 360.0       | 256.0           | 24.3  | 7.70                         | 2.0      | 5.0            | 25.2       | 2.78         | 8.0                                         |       |      |         |      |
| 14                                                  | 1.0               | 7.63     |             |                 | 26.0  | 7.73                         |          |                | 24.7       | 1.45         |                                             |       |      |         |      |
| 15                                                  | 1.2               | 8.56     |             |                 | 22.5  | 7.70                         |          |                | 22.5       | 2.80         |                                             |       |      |         |      |
| 16                                                  | 0.4               | 7.85     |             |                 | 23.5  | 8.01                         |          |                | 24.4       | 1.66         |                                             |       |      |         |      |
| 17                                                  | 1.6               | 7.50     |             |                 | 24.0  | 7.85                         |          |                | 24.3       | 2.10         |                                             |       |      |         |      |
| 18                                                  | 1.6               | 7.46     |             |                 | 27.2  | 7.65                         |          |                | 27.4       | 2.60         |                                             |       |      |         |      |
| 19                                                  | 1.1               | 7.43     |             |                 | 27.6  | 7.75                         |          |                | 27.0       | 2.50         |                                             |       |      |         |      |
| 20                                                  | 1.6               | 7.44     | 326.0       | 180.0           | 27.1  | 7.73                         | 7.0      | 8.0            | 26.7       | 4.65         | 32.0                                        |       |      |         |      |
| 21                                                  | 3.0               | 8.87     |             |                 | 28.0  | 7.87                         |          |                | 27.5       | 4.30         |                                             |       |      |         |      |
| 22                                                  | 1.0               | 7.60     |             |                 | 26.5  | 7.48                         |          |                | 26.5       | 5.10         |                                             |       |      |         |      |
| 23                                                  | 2.2               | 7.54     |             |                 | 27.1  | 7.84                         |          |                | 28.1       | 4.94         |                                             |       |      |         |      |
| 24                                                  | 1.2               | 7.39     |             |                 | 29.1  | 7.78                         |          |                | 28.3       | 2.53         |                                             |       |      |         |      |
| 25                                                  | 1.2               | 7.57     |             |                 | 28.8  | 7.70                         |          |                | 28.0       | 1.84         |                                             |       |      |         |      |
| 26                                                  | 2.3               | 7.55     |             |                 | 27.4  | 7.65                         |          |                | 28.0       | 2.80         |                                             |       |      |         |      |
| 27                                                  | 1.7               | 7.57     | 361.0       | 164.0           | 27.2  | 7.82                         | 2        | 5              | 28.0       | 5.80         | 12.0                                        |       |      |         |      |
| 28                                                  | 1.8               | 7.56     |             |                 | 28.6  | 7.85                         |          |                | 27.6       | 4.00         |                                             |       |      |         |      |
| 29                                                  | 2.6               | 7.51     |             |                 | 27.4  | 7.74                         |          |                | 24.5       | 4.05         |                                             |       |      |         |      |
| 30                                                  | 0.4               | 7.53     |             |                 | 23.4  | 7.87                         |          |                | 25.2       | 2.32         |                                             |       |      |         |      |
| 31                                                  | 1.0               | 7.64     |             |                 | 23.9  | 7.76                         |          |                | 25.1       | 5.83         |                                             |       |      |         |      |
| o. of Samp.                                         |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
| st of Samp.                                         | 45.3              | 239.4    | 1291.0      | 910.0           | 789.5 | 242.3                        | 13.0     | 23.0           | 795.5      | 104.1        |                                             |       |      |         |      |
| onthly Avg.                                         | 1.8               | 7.0      | #DIV/0!     | #DIV/0!         | 16.5  | 7.0                          | #DIV/0!  | #DIV/0!        | 16.4       | 3.9          |                                             |       |      |         |      |
| aily Max.                                           | 3.0               | 9.4      | 361.0       | 310.0           | 29.1  | 8.7                          | 7.0      | 8.0            | 28.3       | 8.0          | 32.0                                        |       |      |         |      |
| aily Min.                                           | 0.4               | 7.4      |             |                 | 21.4  | 7.5                          |          |                | 22.5       | 1.5          | 5.0                                         |       |      |         |      |
| ax 7/Avg.                                           |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
| NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
| 1780-1306 (8-03)                                    |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |       | CITY          |          |                |            |              |                   | COUNTY/REGION           |      |         |      |  |  |
|------------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------|-------------------------|------|---------|------|--|--|
| Shoal Creek WWTP |                   |          |             |                 |       | NEOSHO        |          |                |            |              |                   | SPRINGFIELD             |      |         |      |  |  |
| FOR THE MONTH OF |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              |                   | TYPE TREATMENT FACILITY |      |         |      |  |  |
| April-15         |                   |          |             |                 |       | MO# 0104906   |          |                |            |              |                   | OXI-DATION DITCH        |      |         |      |  |  |
| INFLUENT         |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                   |                         |      |         |      |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-Coli<br>Col/100 | OTHER                   | RAIN | WEATHER | TIME |  |  |
| 1                | 2.1               | 9.00     | 325.0       | 445.0           | 17.7  | 7.58          | 8.4      | 15.0           | 16.5       | 5.54         |                   |                         |      |         |      |  |  |
| 2                | 2.7               | 7.48     |             |                 | 17.1  | 7.34          |          |                | 17.6       | 4.38         |                   | .93                     |      |         |      |  |  |
| 3                | 2.4               | 7.46     |             |                 | 14.6  | 7.42          |          |                | 17.0       | 4.44         |                   | .18                     |      |         |      |  |  |
| 4                | 2.0               | 7.96     |             |                 | 12.1  | 7.54          |          |                | 14.2       | 5.05         |                   |                         |      |         |      |  |  |
| 5                | 3.0               | 7.38     |             |                 | 12.9  | 7.50          |          |                | 14.6       | 3.95         |                   |                         |      |         |      |  |  |
| 6                | 2.3               | 7.54     |             |                 | 14.4  | 7.36          |          |                | 15.1       | 4.81         |                   | .11                     |      |         |      |  |  |
| 7                | 2.2               | 7.48     |             |                 | 20.7  | 7.28          |          |                | 19.0       | 3.60         |                   |                         |      |         |      |  |  |
| 8                | 2.2               | 7.31     | 201.0       | 220.0           | 21.0  | 7.19          | 10.1     | 13.0           | 20.4       | 3.32         | 33100.0           |                         |      |         |      |  |  |
| 9                | 2.0               | 7.18     |             |                 | 20.1  | 7.24          |          |                | 21.2       | 3.28         |                   |                         |      |         |      |  |  |
| 10               | 1.8               | 7.47     |             |                 | 20.3  | 7.25          |          |                | 20.5       | 3.25         |                   |                         |      |         |      |  |  |
| 11               | 1.7               | 7.16     |             |                 | 15.6  | 7.37          |          |                | 16.2       | 3.76         |                   |                         |      |         |      |  |  |
| 12               | 1.6               | 7.35     |             |                 | 16.2  | 7.41          |          |                | 16.4       | 2.93         |                   |                         |      |         |      |  |  |
| 13               | 1.9               | 7.40     |             |                 | 16.3  | 7.45          |          |                | 17.6       | 3.34         |                   | .12                     |      |         |      |  |  |
| 14               | 2.0               | 7.33     |             |                 | 17.3  | 7.48          |          |                | 18.5       | 3.64         |                   | .04                     |      |         |      |  |  |
| 15               | 2.1               | 7.46     | 94.5        | 128.0           | 16.8  | 7.36          | 7.6      | 5.0            | 19.5       | 4.45         | 1187.0            | .19                     |      |         |      |  |  |
| 16               | 1.6               | 7.40     |             |                 | 21.5  | 7.47          |          |                | 23.5       | 4.88         |                   |                         |      |         |      |  |  |
| 17               | 1.6               | 8.50     |             |                 | 15.5  | 7.68          |          |                | 18.4       | 6.18         |                   |                         |      |         |      |  |  |
| 18               | 3.6               | 7.47     |             |                 | 15.8  | 7.48          |          |                | 18.2       | 3.96         |                   | 1.49                    |      |         |      |  |  |
| 19               | 2.7               | 7.67     |             |                 | 15.2  | 7.35          |          |                | 17.30      | 3.85         |                   | .78                     |      |         |      |  |  |
| 20               | 2.7               | 7.55     |             |                 | 15.1  | 7.43          |          |                | 16.40      | 5.18         |                   | .25                     |      |         |      |  |  |
| 21               | 2.3               | 7.48     | 50.7        | 71.0            | 21.0  | 7.57          | 4.0      | 5.0            | 17.80      | 5.05         | 24196.0           |                         |      |         |      |  |  |
| 22               | 2.3               | 7.52     |             |                 | 20.2  | 7.36          |          |                | 18.40      | 4.62         |                   | .09                     |      |         |      |  |  |
| 23               | 2.0               | 7.48     |             |                 | 19.8  | 7.32          |          |                | 18.40      | 4.86         |                   |                         |      |         |      |  |  |
| 24               | 1.9               | 7.66     |             |                 | 18.0  | 7.60          |          |                | 17.80      | 4.28         |                   |                         |      |         |      |  |  |
| 25               | 1.8               | 7.60     |             |                 | 18.5  | 7.50          |          |                | 18.00      | 4.50         |                   |                         |      |         |      |  |  |
| 26               | 1.6               | 6.77     |             |                 | 16.3  | 7.30          |          |                | 16.50      | 2.50         |                   |                         |      |         |      |  |  |
| 27               | 2.0               | 7.30     |             |                 | 17.3  | 7.55          |          |                | 18.6       | 2.56         |                   |                         |      |         |      |  |  |
| 28               | 2.7               | 7.45     |             |                 | 18.8  | 7.49          |          |                | 20.9       | 5.05         |                   |                         |      |         |      |  |  |
| 29               | 1.7               | 7.40     | 291.0       | 532.0           | 20.0  | 7.55          | 11.5     | 20.0           | 20.4       | 5.50         | 5794.0            |                         |      |         |      |  |  |
| 30               | 1.8               | 7.34     |             |                 | 21.0  | 7.40          |          |                | 21.8       | 5.26         |                   |                         |      |         |      |  |  |
| 31               |                   |          |             |                 |       |               |          |                |            |              |                   | 4.18                    |      |         |      |  |  |
| No. of Samp.     |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |  |  |
| Tot of Samp.     | 64.3              | 225.6    | 962.2       | 1396.0          | 527.1 | 222.8         | 41.6     | 58.0           |            | 128.0        |                   |                         |      |         |      |  |  |
| Monthly Avg.     | #DIV/0!           |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                   |                         |      |         |      |  |  |
| Daily Max.       | 3.6               | 9.0      | 325.0       | 532.0           | 21.5  | 7.7           | 11.5     | 20.0           | 23.5       | 6.2          | 33100.0           |                         |      |         |      |  |  |
| Daily Min.       | 1.6               | 6.8      |             |                 | 12.1  | 7.2           |          |                | 14.2       | 2.5          | 1187.0            |                         |      |         |      |  |  |
| Max 7/Avg.       |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |  |  |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |       | CITY          |          |                |            |              | COUNTY/REGION           |             |      |         |      |
|------------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------------|-------------|------|---------|------|
| FOR THE MONTH OF |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              | TYPE TREATMENT FACILITY |             |      |         |      |
| February-15      |                   |          |             |                 |       | MO# 0104906   |          |                |            |              | OXI-DATION DITCH        |             |      |         |      |
| INFLUENT         |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                         |             |      |         |      |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | Fecal<br>Col/100        | snow inches | RAIN | WEATHER | TIME |
| 1                | 1.4               | 7.68     |             |                 | 11.3  | 7.10          |          |                | 11.6       | 3.65         |                         |             | 0.37 |         |      |
| 2                | 1.5               | 7.68     |             |                 | 11.8  | 7.38          |          |                | 11.4       | 2.55         |                         |             |      |         |      |
| 3                | 1.5               | 7.65     |             |                 | 14.6  | 7.40          |          |                | 11.4       | 2.75         |                         |             |      |         |      |
| 4                | 1.3               | 7.44     | 2.0         | 394.0           | 12.8  | 7.36          | 9.0      | 10.0           | 10.2       | 4.05         |                         |             |      |         |      |
| 5                | 1.3               | 7.35     |             |                 | 14.3  | 7.38          |          |                | 15.7       | 3.60         |                         |             |      |         |      |
| 6                | 1.7               | 7.48     |             |                 | 13.6  | 7.26          |          |                | 10.8       | 4.24         |                         |             |      |         |      |
| 7                | 1.1               | 7.37     |             |                 | 14.1  | 7.26          |          |                | 14.3       | 3.76         |                         |             |      |         |      |
| 8                | 1.0               | 7.44     |             |                 | 13.9  | 7.30          |          |                | 13.4       | 3.88         |                         |             |      |         |      |
| 9                | 1.5               | 7.63     |             |                 | 13.7  | 7.19          |          |                | 14.2       | 3.10         |                         |             |      |         |      |
| 10               | 1.4               | 7.58     |             |                 | 14.3  | 7.32          |          |                | 15.0       | 2.46         |                         |             |      |         |      |
| 11               | 1.4               | 9.40     | 261.0       | 176.0           | 13.1  | 7.50          | 12.2     | 8.0            | 12.8       | 3.48         |                         |             |      |         |      |
| 12               | 1.3               | 8.11     |             |                 | 12.7  | 7.11          |          |                | 15.2       | 3.00         |                         |             |      |         |      |
| 13               | 1.2               | 7.86     |             |                 | 13.4  | 7.26          |          |                | 12.9       | 4.16         |                         |             |      |         |      |
| 14               | 1.1               | 7.47     |             |                 | 11.6  | 7.29          |          |                | 10.6       | 4.66         |                         |             |      |         |      |
| 15               | 1.0               | 7.60     |             |                 | 11.5  | 7.43          |          |                | 10.5       | 4.64         |                         |             |      |         |      |
| 16               | 1.1               | 9.81     |             |                 | 10.6  | 7.63          |          |                | 9.3        | 4.40         |                         |             |      |         |      |
| 17               | 1.3               | 7.56     |             |                 | 11.0  | 7.43          |          |                | 10.0       | 3.80         |                         | 5.0         | 0.91 |         |      |
| 18               | 1.4               | 7.55     | 233.0       | 326.0           | 9.8   | 7.37          | 6.5      | 5.0            | 9.5        | 3.76         |                         |             |      |         |      |
| 19               | 1.3               | 7.70     |             |                 | 10.3  | 7.41          |          |                | 8.8        | 3.92         |                         |             |      |         |      |
| 20               | 1.4               | 7.67     |             |                 | 13.0  | 7.38          |          |                | 11.0       | 3.44         |                         |             |      |         |      |
| 21               | 2.4               | 7.42     |             |                 | 9.4   | 7.44          |          |                | 12.0       | 3.52         |                         |             | 0.50 |         |      |
| 22               | 2.4               | 7.40     |             |                 | 12.3  | 7.43          |          |                | 11.5       | 3.40         |                         |             |      |         |      |
| 23               | 1.9               | 7.42     |             |                 | 9.5   | 7.30          |          |                | 9.1        | 4.28         |                         |             |      |         |      |
| 24               | 2.0               | 8.22     |             |                 | 10.0  | 7.41          |          |                | 11.0       | 3.25         |                         |             |      |         |      |
| 25               | 1.6               | 7.63     | 302.0       | 450.0           | 11.1  | 7.20          | 4.1      | 5.0            | 10.7       | 2.87         |                         |             |      |         |      |
| 26               | 1.7               | 7.98     |             |                 | 10.8  | 7.45          |          |                | 9.9        | 2.75         |                         |             |      |         |      |
| 27               | 1.7               | 7.42     |             |                 | 10.2  | 7.43          |          |                | 9.0        | 3.06         |                         |             |      |         |      |
| 28               | 1.7               | 8.24     |             |                 | 8.9   | 6.76          |          |                | 9.7        | 3.46         |                         |             |      |         |      |
| 29               |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| 30               |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| 31               |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| No. of Samp.     |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| Tot of Samp.     | 41.6              | 217.8    | 798.0       | 1346.0          | 333.6 | 205.2         | 31.8     | 28.0           | 321.5      | 99.9         |                         |             |      |         |      |
| Monthly Avg.     | #DIV/0!           |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                         |             |      |         |      |
| Daily Max.       | 2.4               | 9.8      | 302.0       | 450.0           | 14.6  | 7.6           | 12.2     | 10.0           | 15.7       | 4.7          | 0.0                     |             |      |         |      |
| Daily Min.       | 1.0               | 7.4      |             |                 | 8.9   | 6.8           |          |                | 8.8        | 2.5          | 0.0                     |             |      |         |      |
| Max 7/Avg.       |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                                     |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |       |      |         |      |
|-----------------------------------------------------|-------------------|----------|-------------------------------|-----------------|------------|-------------------------------------|----------|----------------|------------|--------------|----------------------------------------------------|-------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b>         |                   |          |                               |                 |            | CITY<br><b>NEOSHO</b>               |          |                |            |              | COUNTY/REGION<br><b>SPRINGFIELD</b>                |       |      |         |      |
| FOR THE MONTH OF<br><b>June-13</b>                  |                   |          | OUTFALL NUMBER<br><b>#001</b> |                 |            | PERMIT NUMBER<br><b>MO# 0104906</b> |          |                |            |              | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |       |      |         |      |
| INFLUENT                                            |                   |          |                               |                 |            | EFFLUENT                            |          |                |            |              |                                                    |       |      |         |      |
| DAY                                                 | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L                   | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                            | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100                                  | OTHER | RAIN | WEATHER | TIME |
| 1                                                   | 3.60              | 7.35     |                               |                 | 18.7       | 7.61                                |          |                | 19.7       | 4.63         |                                                    |       | 0.52 |         |      |
| 2                                                   | 2.20              | 7.50     |                               |                 | 18.0       | 7.67                                |          |                | 19.1       | 4.96         |                                                    |       |      |         |      |
| 3                                                   | 2.70              | 7.52     |                               |                 | 21.2       | 7.58                                |          |                | 20.5       | 4.98         |                                                    |       |      |         |      |
| 4                                                   | 2.00              | 7.51     |                               |                 | 20.2       | 7.68                                |          |                | 20.2       | 5.22         |                                                    |       |      |         |      |
| 5                                                   | 2.80              | 7.53     |                               |                 | 18.6       | 7.63                                |          |                | 19.9       | 5.58         |                                                    |       | 1.03 |         |      |
| 6                                                   | 2.90              | 7.5      | 228.0                         | 175.0           | 18.9       | 7.60                                | 8.9      | 5.0            | 19.6       | 4.28         | 1.0                                                |       | 0.31 |         |      |
| 7                                                   | 2.30              | 7.48     |                               |                 | 18.5       | 7.55                                |          |                | 19.2       | 4.04         |                                                    |       |      |         |      |
| 8                                                   | 1.80              | 7.57     |                               |                 | 18.1       | 7.56                                |          |                | 19.1       | 3.65         |                                                    |       |      |         |      |
| 9                                                   | 1.60              | 7.70     |                               |                 | 18.9       | 7.52                                |          |                | 19.8       | 3.16         |                                                    |       |      |         |      |
| 10                                                  | 1.70              | 7.44     |                               |                 | 24.5       | 7.47                                |          |                | 23.5       | 5.44         |                                                    |       |      |         |      |
| 11                                                  | 2.20              | 7.37     |                               |                 | 26.0       | 7.40                                |          |                | 24.2       | 5.03         |                                                    |       |      |         |      |
| 12                                                  | 2.00              | 6.90     |                               |                 | 24.2       | 6.91                                |          |                | 24.7       | 2.48         |                                                    |       |      |         |      |
| 13                                                  | 2.20              | 6.87     | 239                           | 210             | 27.0       | 6.92                                | 3.1      | 5.0            | 25.0       | 3.45         | 7.0                                                |       |      |         |      |
| 14                                                  | 2.00              | 7.01     |                               |                 | 26.5       | 7.00                                |          |                | 25.6       | 5.65         |                                                    |       |      |         |      |
| 15                                                  | 1.40              | 7.18     |                               |                 | 23.3       | 7.08                                |          |                | 23.0       | 5.14         |                                                    |       |      |         |      |
| 16                                                  | 2.00              | 7.00     |                               |                 | 22.0       | 7.01                                |          |                | 23.4       | 2.43         |                                                    |       | 1.42 |         |      |
| 17                                                  | 2.10              | 7.02     |                               |                 | 21.0       | 7.02                                |          |                | 22.3       | 2.38         |                                                    |       | 0.24 |         |      |
| 18                                                  | 1.60              | 7.02     |                               |                 | 24.0       | 7.00                                |          |                | 24.0       | 2.28         |                                                    |       | 0.07 |         |      |
| 19                                                  | 1.50              | 7.00     | 180.0                         | 102.0           | 25.8       | 7.00                                | 2.5      | 5.0            | 24.0       | 2.65         | 10.0                                               |       |      |         |      |
| 20                                                  | 1.50              | 7.43     |                               |                 | 21.0       | 7.39                                |          |                | 22.5       | 3.41         |                                                    |       |      |         |      |
| 21                                                  | 1.40              | 7.71     |                               |                 | 24.4       | 7.33                                |          |                | 25.0       | 2.69         |                                                    |       |      |         |      |
| 22                                                  | 1.20              | 7.37     |                               |                 | 20.8       | 7.27                                |          |                | 23.5       | 2.22         |                                                    |       |      |         |      |
| 23                                                  | 1.20              | 7.36     |                               |                 | 21.1       | 7.26                                |          |                | 23.4       | 2.27         |                                                    |       |      |         |      |
| 24                                                  | 1.40              | 7.40     |                               |                 | 27.5       | 7.36                                |          |                | 26.2       | 2.56         |                                                    |       |      |         |      |
| 25                                                  | 1.30              | 7.37     |                               |                 | 27.7       | 7.36                                |          |                | 26.2       | 3.56         |                                                    |       |      |         |      |
| 26                                                  | 1.30              | 7.34     | 202.0                         | 31.0            | 26.0       | 7.30                                | 2.4      | 5.0            | 26.4       | 3.85         | 15.0                                               |       |      |         |      |
| 27                                                  | 1.70              | 7.65     |                               |                 | 26.4       | 7.45                                |          |                | 27.6       | 3.54         |                                                    |       |      |         |      |
| 28                                                  | 1.40              | 7.43     |                               |                 | 26.0       | 7.32                                |          |                | 25.7       | 3.82         |                                                    |       |      |         |      |
| 29                                                  | 1.20              | 7.56     |                               |                 | 22.2       | 7.42                                |          |                | 23.3       | 3.24         |                                                    |       |      |         |      |
| 30                                                  | 1.20              | 7.57     |                               |                 | 21.2       | 7.43                                |          |                | 22.1       | 5.23         |                                                    |       |      |         |      |
| 31                                                  |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |       |      |         |      |
| 1 of Samp.                                          | 30.0              | 30.0     | 4.0                           | 4.0             | 30.0       | 30.0                                | 4.0      | 4.0            | 30.0       | 30.0         | 4.0                                                |       |      |         |      |
| 1 of Samp.                                          | 55.4              |          | 849.0                         | 518.0           | 679.7      | 220.1                               | 16.9     | 20.0           | 688.7      | 113.8        | 33.0                                               |       |      |         |      |
| Monthly Avg.                                        | 1.8               |          | 212.3                         | 129.5           |            |                                     | 4.2      | 5.0            |            |              | 8.3                                                |       |      |         |      |
| Daily Max.                                          | 3.6               | 7.7      | 239.0                         | 210.0           | 27.7       | 7.7                                 | 8.9      | 5.0            | 27.6       | 5.7          | 15.0                                               |       |      |         |      |
| Daily Min.                                          |                   | 6.9      |                               |                 | 18.0       | 6.9                                 |          |                | 19.1       | 2.2          | 1.0                                                |       |      |         |      |
| 1x 7/Avg.                                           |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |       |      |         |      |
| NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |       |      |         |      |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |                   |          |             |                 |            |                               |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |
|---------------------------------------------|-------------------|----------|-------------|-----------------|------------|-------------------------------|----------|----------------|------------|--------------|-------------------------------------|-------|------|---------|------|----------------------------------------------------|--|--|--|--|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |                   |          |             |                 |            | CITY<br><b>NEOSHO</b>         |          |                |            |              | COUNTY/REGION<br><b>SPRINGFIELD</b> |       |      |         |      |                                                    |  |  |  |  |
| FOR THE MONTH OF<br><b>September-13</b>     |                   |          |             |                 |            | OUTFALL NUMBER<br><b>#001</b> |          |                |            |              | PERMIT NUMBER<br><b>MO# 0104906</b> |       |      |         |      | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |  |  |  |  |
| INFLUENT                                    |                   |          |             |                 |            | EFFLUENT                      |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |
| DAY                                         | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100                   | OTHER | RAIN | WEATHER | TIME |                                                    |  |  |  |  |
| 1                                           | 1.7               | 7.34     |             |                 | 23.4       | 7.16                          |          |                | 25.4       | 4.97         |                                     |       | 0.10 |         |      |                                                    |  |  |  |  |
| 2                                           | 1.7               | 7.33     |             |                 | 22.6       | 7.28                          |          |                | 22.8       | 5.16         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 3                                           | 1.2               | 7.20     |             |                 | 24.7       | 7.27                          |          |                | 25.0       | 4.40         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 4                                           | 1.7               | 7.20     | 77.7        | 116.0           | 26.2       | 7.50                          | 2.0      | 7.0            | 25.0       | 4.70         | 15.0                                |       |      |         |      |                                                    |  |  |  |  |
| 5                                           | 1.4               | 7.28     |             |                 | 26.7       | 7.36                          |          |                | 22.9       | 4.86         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 6                                           | 1.5               | 7.44     |             |                 | 22.8       | 7.40                          |          |                | 23.1       | 4.44         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 7                                           | 1.1               | 7.33     |             |                 | 22.7       | 7.59                          |          |                | 23.7       | 3.59         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 8                                           | 1.2               | 7.34     |             |                 | 23.2       | 7.32                          |          |                | 24.5       | 3.33         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 9                                           | 2.0               | 7.36     |             |                 | 23.1       | 7.31                          |          |                | 24.3       | 3.55         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 10                                          | 2.0               | 7.41     |             |                 | 24.8       | 7.36                          |          |                | 25.1       | 3.66         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 11                                          | 1.6               | 7.27     | 140.0       | 125.0           | 25.6       | 7.23                          | 3.0      | 8.0            | 26.6       | 3.00         | 60.0                                |       |      |         |      |                                                    |  |  |  |  |
| 12                                          | 1.2               | 7.20     |             |                 | 25.5       | 7.13                          |          |                | 26.8       | 2.00         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 13                                          | 1.2               | 7.24     |             |                 | 25.4       | 7.27                          |          |                | 25.3       | 3.05         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 14                                          | 1.0               | 7.48     |             |                 | 23.5       | 7.10                          |          |                | 23.1       | 3.62         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 15                                          | 1.1               | 7.33     |             |                 | 23.6       | 7.26                          |          |                | 23.0       | 3.60         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 16                                          | 1.2               | 7.14     |             |                 | 24.0       | 7.15                          |          |                | 24.0       | 3.72         |                                     |       | 0.27 |         |      |                                                    |  |  |  |  |
| 17                                          | 1.2               | 7.75     |             |                 | 24.0       | 7.60                          |          |                | 24.3       | 3.02         |                                     |       | 0.07 |         |      |                                                    |  |  |  |  |
| 18                                          | 1.5               | 7.65     | 189.0       | 265.0           | 25.3       | 7.62                          | 3.1      | 7.0            | 25.5       | 5.08         | 23.0                                |       |      |         |      |                                                    |  |  |  |  |
| 19                                          | 1.2               | 7.46     |             |                 | 25.8       | 7.54                          |          |                | 26.0       | 5.02         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 20                                          | 1.5               | 7.59     |             |                 | 22.6       | 7.76                          |          |                | 23.5       | 3.00         |                                     |       | 1.42 |         |      |                                                    |  |  |  |  |
| 21                                          | 1.4               | 7.70     |             |                 | 20.7       | 7.73                          |          |                | 21.6       | 3.05         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 22                                          | 1.3               | 7.73     |             |                 | 21.1       | 7.78                          |          |                | 21.3       | 3.37         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 23                                          | 1.3               | 7.63     | 870.0       | 393.0           | 22.8       | 7.64                          | 2.0      | 5.0            | 22.0       | 4.26         | 12.0                                |       |      |         |      |                                                    |  |  |  |  |
| 24                                          | 2.1               | 7.48     |             |                 | 23.8       | 7.52                          |          |                | 23.0       | 4.08         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 25                                          | 1.5               | 7.42     |             |                 | 24.0       | 7.56                          |          |                | 24.0       | 4.18         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 26                                          | 2.1               | 7.83     |             |                 | 23.9       | 7.81                          |          |                | 23.7       | 3.15         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 27                                          | 1.2               | 8.44     |             |                 | 24.5       | 7.77                          |          |                | 24.0       | 2.70         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 28                                          | 1.1               | 7.54     |             |                 | 22.5       | 7.60                          |          |                | 22.2       | 3.12         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 29                                          | 1.4               | 7.46     |             |                 | 22.9       | 7.75                          |          |                | 22.9       | 2.96         |                                     |       | 0.76 |         |      |                                                    |  |  |  |  |
| 30                                          | 1.2               | 7.57     |             |                 | 23.5       | 7.70                          |          |                | 22.9       | 4.87         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 31                                          |                   |          |             |                 |            |                               |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |
| 1 of Samp.                                  | 30.0              | 30.0     | 4.0         | 4.0             | 30.0       | 30.0                          | 4.0      | 4.0            | 30.0       | 30.0         | 4.0                                 |       |      |         |      |                                                    |  |  |  |  |
| 4 of Samp.                                  | 42.8              |          | 1276.7      | 899.0           | 715.2      | 224.1                         | 10.1     | 27.0           | 717.5      | 113.5        | 110.0                               |       | 2.62 |         |      |                                                    |  |  |  |  |
| Monthly Avg.                                | 1.4               |          | 319.2       | 224.8           |            |                               | 2.5      | 6.8            |            |              | 27.5                                |       |      |         |      |                                                    |  |  |  |  |
| Daily Max.                                  | 2.1               | 8.4      | 870.0       | 393.0           | 26.7       | 7.8                           | 3.1      | 8.0            | 26.8       | 5.2          | 60.0                                |       |      |         |      |                                                    |  |  |  |  |
| Daily Min.                                  |                   | 7.1      |             |                 | 20.7       | 7.1                           |          |                | 21.3       | 2.0          | 12.0                                |       |      |         |      |                                                    |  |  |  |  |
| 1x 7/Avg.                                   |                   |          |             |                 |            |                               |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

780-1308 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                   | COUNTY/REGION           |      |         |      |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|-------------------|-------------------------|------|---------|------|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                   | SPRINGFIELD             |      |         |      |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                   | TYPE TREATMENT FACILITY |      |         |      |  |  |
| July-14          |                   |          |             |                 |            | MO# 0104906   |          |                |            |              |                   | OXI-DATION DITCH        |      |         |      |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                   |                         |      |         |      |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | OTHER                   | RAIN | WEATHER | TIME |  |  |
| 1                | 1.0               | 7.64     |             |                 | 25.5       | 7.59          |          |                | 26.4       | 4.20         |                   |                         |      |         |      |  |  |
| 2                | 1.5               | 7.50     | 521.0       | 353.0           | 24.0       | 7.77          | 2.0      | 5.0            | 23.3       | 5.80         | 24.0              |                         |      |         |      |  |  |
| 3                | 1.0               | 7.60     |             |                 | 23.4       | 7.73          |          |                | 25.0       | 2.20         |                   |                         |      |         |      |  |  |
| 4                | 1.1               | 7.70     |             |                 | 21.4       | 7.66          |          |                | 23.0       | 2.51         |                   |                         |      |         |      |  |  |
| 5                | 1.0               | 7.68     |             |                 | 21.5       | 7.59          |          |                | 24.0       | 1.85         |                   |                         |      |         |      |  |  |
| 6                | 0.8               | 7.61     |             |                 | 21.7       | 7.53          |          |                | 23.8       | 2.02         |                   |                         |      |         |      |  |  |
| 7                | 1.2               | 7.63     |             |                 | 25.4       | 7.50          |          |                | 25.5       | 1.94         |                   |                         |      |         |      |  |  |
| 8                | 1.0               | 7.55     |             |                 | 23.0       | 7.60          |          |                | 25.4       | 2.47         |                   |                         |      |         |      |  |  |
| 9                | 1.0               | 7.57     | 184.0       | 303.0           | 26.0       | 7.66          | 2.0      | 6.0            | 25.5       | 2.62         | 20.0              |                         |      |         |      |  |  |
| 10               | 1.4               | 7.56     |             |                 | 24.2       | 7.76          |          |                | 25.0       | 1.65         |                   |                         |      |         |      |  |  |
| 11               | 0.8               | 7.61     |             |                 | 25.5       | 7.65          |          |                | 26.2       | 3.26         |                   |                         |      |         |      |  |  |
| 12               | 1.3               | 7.54     |             |                 | 27.0       | 7.68          |          |                | 26.8       | 1.90         |                   |                         |      |         |      |  |  |
| 13               | 1.1               | 7.48     |             |                 | 27.2       | 7.57          |          |                | 26.8       | 3.92         |                   |                         |      |         |      |  |  |
| 14               | 1.0               | 7.29     |             |                 | 22.5       | 7.44          |          |                | 24.2       | 4.14         |                   |                         |      |         |      |  |  |
| 15               | 1.0               | 7.90     |             |                 | 23.4       | 7.50          |          |                | 25.0       | 3.30         |                   |                         |      |         |      |  |  |
| 16               | 0.7               | 7.60     | 666.0       | 640.0           | 23.7       | 7.80          | 2.0      | 6.0            | 24.0       | 3.05         | 8.0               |                         |      |         |      |  |  |
| 17               | 1.2               | 7.88     |             |                 | 23.5       | 7.78          |          |                | 24.0       | 1.50         |                   |                         |      |         |      |  |  |
| 18               | 1.0               | 7.60     |             |                 | 23.0       | 7.85          |          |                | 24.0       | 3.52         |                   |                         |      |         |      |  |  |
| 19               | 0.9               | 7.71     |             |                 | 22.1       | 7.85          |          |                | 22.8       | 5.17         |                   |                         |      |         |      |  |  |
| 20               | 1.7               | 7.86     |             |                 | 21.9       | 7.79          |          |                | 22.9       | 3.71         |                   |                         |      |         |      |  |  |
| 21               | 0.5               | 7.88     |             |                 | 25.8       | 7.81          |          |                | 25.0       | 2.13         |                   |                         |      |         |      |  |  |
| 22               | 2.2               | 8.08     |             |                 | 27.4       | 7.78          |          |                | 27.0       | 1.80         |                   |                         |      |         |      |  |  |
| 23               | 1.7               | 7.52     | 247.0       | 528.0           | 26.8       | 7.83          | 4.1      | 5.0            | 25.8       | 2.10         | 14.0              |                         |      |         |      |  |  |
| 24               | 1.0               | 7.64     |             |                 | 25.0       | 7.88          |          |                | 25.6       | 1.32         |                   |                         |      |         |      |  |  |
| 25               | 1.0               | 9.03     |             |                 | 24.1       | 7.98          |          |                | 25.0       | 5.50         |                   |                         |      |         |      |  |  |
| 26               | 1.2               | 7.73     |             |                 | 23.3       | 7.91          |          |                | 24.1       | 1.21         |                   |                         |      |         |      |  |  |
| 27               | 1.0               | 7.93     |             |                 | 24.3       | 7.82          |          |                | 24.7       | 1.22         |                   |                         |      |         |      |  |  |
| 28               | 1.0               | 7.48     |             |                 | 24.4       | 7.83          |          |                | 23.7       | 6.07         |                   |                         |      |         |      |  |  |
| 29               | 1.0               | 7.50     |             |                 | 24.0       | 7.79          |          |                | 25.0       | 2.42         |                   |                         |      |         |      |  |  |
| 30               | 1.0               | 7.47     | 524.0       | 1250.0          | 21.6       | 7.85          | 12.0     | 12.0           | 22.5       | 1.27         | 8.0               |                         |      |         |      |  |  |
| 31               | 3.6               | 7.50     |             |                 | 23.5       | 7.83          |          |                | 24.4       | 1.18         |                   |                         |      |         |      |  |  |
| No. of Samp.     | 30.0              | 31.0     | 5.0         | 5.0             | 31.0       | 31.0          | 5.0      | 5.0            | 31.0       | 31.0         | 5.0               |                         |      |         |      |  |  |
| Tot of Samp.     | 35.9              |          | 2142.0      | 3074.0          | 746.1      | 239.6         | 22.1     | 34.0           | 766.4      | 87.0         | 74.0              |                         |      |         |      |  |  |
| Monthly Avg.     | 1.2               |          | 428.4       | 614.8           |            |               | 4.4      | 6.8            |            |              | 14.8              |                         |      |         |      |  |  |
| Daily Max.       | 3.6               | 9.0      | 666.0       | 1250.0          | 27.4       | 8.0           | 12.0     | 12.0           | 27.0       | 6.1          | 24.0              |                         |      |         |      |  |  |
| Daily Min.       |                   | 7.3      |             |                 | 21.4       | 7.4           |          |                | 22.5       | 1.2          | 8.0               |                         |      |         |      |  |  |
| Max 7/Avg.       |                   |          |             |                 |            |               |          |                |            |              |                   |                         |      |         |      |  |  |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              | COUNTY/REGION           |       |      |         |      |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|-------------------------|-------|------|---------|------|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              | SPRINGFIELD             |       |      |         |      |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              | TYPE TREATMENT FACILITY |       |      |         |      |
| September-13     |                   |          |             |                 |            | MO# 0104906   |          |                |            |              | OXI-DATION DITCH        |       |      |         |      |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                         |       |      |         |      |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100       | OTHER | RAIN | WEATHER | TIME |
| 1                | 1.7               | 7.34     |             |                 | 23.4       | 7.16          |          |                | 25.4       | 4.97         |                         |       | 0.10 |         |      |
| 2                | 1.7               | 7.33     |             |                 | 22.6       | 7.28          |          |                | 22.8       | 5.16         |                         |       |      |         |      |
| 3                | 1.2               | 7.20     |             |                 | 24.7       | 7.27          |          |                | 25.0       | 4.40         |                         |       |      |         |      |
| 4                | 1.7               | 7.20     | 77.7        | 116.0           | 26.2       | 7.50          | 2.0      | 7.0            | 25.0       | 4.70         | 15.0                    |       |      |         |      |
| 5                | 1.4               | 7.28     |             |                 | 26.7       | 7.36          |          |                | 22.9       | 4.86         |                         |       |      |         |      |
| 6                | 1.5               | 7.44     |             |                 | 22.8       | 7.40          |          |                | 23.1       | 4.44         |                         |       |      |         |      |
| 7                | 1.1               | 7.33     |             |                 | 22.7       | 7.59          |          |                | 23.7       | 3.59         |                         |       |      |         |      |
| 8                | 1.2               | 7.34     |             |                 | 23.2       | 7.32          |          |                | 24.5       | 3.33         |                         |       |      |         |      |
| 9                | 2.0               | 7.36     |             |                 | 23.1       | 7.31          |          |                | 24.3       | 3.55         |                         |       |      |         |      |
| 10               | 2.0               | 7.41     |             |                 | 24.8       | 7.36          |          |                | 25.1       | 3.66         |                         |       |      |         |      |
| 11               | 1.6               | 7.27     | 140.0       | 125.0           | 25.6       | 7.23          | 3.0      | 8.0            | 26.6       | 3.00         | 60.0                    |       |      |         |      |
| 12               | 1.2               | 7.20     |             |                 | 25.5       | 7.13          |          |                | 26.8       | 2.00         |                         |       |      |         |      |
| 13               | 1.2               | 7.24     |             |                 | 25.4       | 7.27          |          |                | 25.3       | 3.05         |                         |       |      |         |      |
| 14               | 1.0               | 7.48     |             |                 | 23.5       | 7.10          |          |                | 23.1       | 3.62         |                         |       |      |         |      |
| 15               | 1.1               | 7.33     |             |                 | 23.6       | 7.26          |          |                | 23.0       | 3.60         |                         |       |      |         |      |
| 16               | 1.2               | 7.14     |             |                 | 24.0       | 7.15          |          |                | 24.0       | 3.72         |                         |       | 0.27 |         |      |
| 17               | 1.2               | 7.75     |             |                 | 24.0       | 7.60          |          |                | 24.3       | 3.02         |                         |       | 0.07 |         |      |
| 18               | 1.5               | 7.65     | 189.0       | 265.0           | 25.3       | 7.62          | 3.1      | 7.0            | 25.5       | 5.08         | 23.0                    |       |      |         |      |
| 19               | 1.2               | 7.46     |             |                 | 25.8       | 7.54          |          |                | 26.0       | 5.02         |                         |       |      |         |      |
| 20               | 1.5               | 7.59     |             |                 | 22.6       | 7.76          |          |                | 23.5       | 3.00         |                         |       | 1.42 |         |      |
| 21               | 1.4               | 7.70     |             |                 | 20.7       | 7.73          |          |                | 21.6       | 3.05         |                         |       |      |         |      |
| 22               | 1.3               | 7.73     |             |                 | 21.1       | 7.78          |          |                | 21.3       | 3.37         |                         |       |      |         |      |
| 23               | 1.3               | 7.63     | 870.0       | 393.0           | 22.8       | 7.64          | 2.0      | 5.0            | 22.0       | 4.26         | 12.0                    |       |      |         |      |
| 24               | 2.1               | 7.48     |             |                 | 23.8       | 7.52          |          |                | 23.0       | 4.08         |                         |       |      |         |      |
| 25               | 1.5               | 7.42     |             |                 | 24.0       | 7.56          |          |                | 24.0       | 4.18         |                         |       |      |         |      |
| 26               | 2.1               | 7.83     |             |                 | 23.9       | 7.81          |          |                | 23.7       | 3.15         |                         |       |      |         |      |
| 27               | 1.2               | 8.44     |             |                 | 24.5       | 7.77          |          |                | 24.0       | 2.70         |                         |       |      |         |      |
| 28               | 1.1               | 7.54     |             |                 | 22.5       | 7.60          |          |                | 22.2       | 3.12         |                         |       |      |         |      |
| 29               | 1.4               | 7.46     |             |                 | 22.9       | 7.75          |          |                | 22.9       | 2.96         |                         |       | 0.76 |         |      |
| 30               | 1.2               | 7.57     |             |                 | 23.5       | 7.70          |          |                | 22.9       | 4.87         |                         |       |      |         |      |
| 31               |                   |          |             |                 |            |               |          |                |            |              |                         |       |      |         |      |
| 10. of Samp.     | 30.0              | 30.0     | 4.0         | 4.0             | 30.0       | 30.0          | 4.0      | 4.0            | 30.0       | 30.0         | 4.0                     |       |      |         |      |
| ot of Samp.      | 42.8              |          | 1276.7      | 899.0           | 715.2      | 224.1         | 10.1     | 27.0           | 717.5      | 113.5        | 110.0                   |       | 2.62 |         |      |
| ionthly Avg.     | 1.4               |          | 319.2       | 224.8           |            |               | 2.5      | 6.8            |            |              | 27.5                    |       |      |         |      |
| aily Max.        | 2.1               | 8.4      | 870.0       | 393.0           | 26.7       | 7.8           | 3.1      | 8.0            | 26.8       | 5.2          | 60.0                    |       |      |         |      |
| aily Min.        |                   | 7.1      |             |                 | 20.7       | 7.1           |          |                | 21.3       | 2.0          | 12.0                    |       |      |         |      |
| lax 7/Avg.       |                   |          |             |                 |            |               |          |                |            |              |                         |       |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>SHOAL CREEK WWTP |                   |                        |             |                              |            | CITY<br>NEOSHO  |          |                |            |                                             |                   | COUNTY/REGION<br>SPRINGFIELD |      |         |      |
|--------------------------------------|-------------------|------------------------|-------------|------------------------------|------------|-----------------|----------|----------------|------------|---------------------------------------------|-------------------|------------------------------|------|---------|------|
| FOR THE MONTH OF<br>July-15          |                   | OUTFALL NUMBER<br>#001 |             | PERMIT NUMBER<br>MO# 0104906 |            |                 |          |                |            | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |                   |                              |      |         |      |
| INFLUENT                             |                   |                        |             |                              |            | In-house E-COLI |          |                |            |                                             |                   |                              |      |         |      |
| DAY                                  | FLOW:<br>MGD EFF. | PH UNITS               | BOD<br>mg/L | SUSP.<br>SOLIDS              | TEMP<br>°C | PH UNITS        | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l                                | E-COLI<br>Col/100 | OTHER                        | RAIN | WEATHER | TIME |
| 1                                    | 3.0               | 7.25                   | 334.0       | 188.0                        | 27.3       | 7.58            | 58.6     | 51.0           | 24.3       | 2.57                                        | 125.0             |                              | Ø    |         |      |
| 2                                    | 1.5               | 7.32                   |             |                              | 27.0       | 7.73            |          |                | 25.2       | 3.00                                        |                   |                              | .10  |         |      |
| 3                                    | 1.5               | 7.50                   |             |                              | 26.9       | 7.42            |          |                | 25.4       | 3.03                                        |                   |                              | Ø    |         |      |
| 4                                    | 1.3               | 7.22                   |             |                              | 22.6       | 7.52            |          |                | 22.7       | 3.05                                        |                   |                              | Ø    |         |      |
| 5                                    | 1.5               | 7.20                   |             |                              | 21.9       | 7.54            |          |                | 23.6       | 3.02                                        |                   |                              | Ø    |         |      |
| 6                                    | 1.4               | 7.37                   |             |                              | 24.6       | 7.61            |          |                | 24.8       | 3.12                                        |                   |                              | .72  |         |      |
| 7                                    | 1.8               | 7.28                   |             |                              | 21.6       | 7.60            |          |                | 22.9       | 3.10                                        |                   |                              | .33  |         |      |
| 8                                    | 0.6               | 7.32                   | 293.0       | 213.0                        | 21.4       | 7.23            | 28.0     | 41.0           | 22.3       | 2.89                                        | 32.0              |                              | 1.70 |         |      |
| 9                                    | 2.9               | 7.28                   |             |                              | 21.0       | 7.47            |          |                | 22.2       | 4.32                                        |                   |                              | .71  |         |      |
| 10                                   | 5.3               | 7.22                   |             |                              | 21.5       | 7.26            |          |                | 22.4       | 4.14                                        |                   |                              | 2.66 |         |      |
| 11                                   | 6.9               | 7.10                   |             |                              | 20.7       | 7.11            |          |                | 22.4       | 4.60                                        |                   |                              | Ø    |         |      |
| 12                                   | 4.5               | 7.17                   |             |                              | 20.8       | 7.22            |          |                | 23.8       | 4.10                                        |                   |                              | Ø    |         |      |
| 13                                   | 3.1               | 7.32                   |             |                              | 28.7       | 7.51            |          |                | 25.0       | 4.10                                        |                   |                              | Ø    |         |      |
| 14                                   | 2.8               | 7.28                   |             |                              | 24.5       | 7.61            |          |                | 25.0       | 3.30                                        |                   |                              | Ø    |         |      |
| 15                                   | 3.3               | 7.34                   | 115.0       | 157.0                        | 25.1       | 7.55            | 2.0      | 5.0            | 25.5       | 3.22                                        | 104.0             |                              | Ø    |         |      |
| 16                                   | 1.8               | 7.35                   |             |                              | 30.7       | 7.62            |          |                | 26.1       | 3.14                                        |                   |                              | Ø    |         |      |
| 17                                   | 2.0               | 7.32                   |             |                              | 28.5       | 7.75            |          |                | 25.6       | 7.07                                        |                   |                              | Ø    |         |      |
| 18                                   | 1.6               | 7.35                   |             |                              | 30.1       | 7.70            |          |                | 26.5       | 6.90                                        |                   |                              | Ø    |         |      |
| 19                                   | 1.7               | 7.30                   |             |                              | 30.5       | 7.65            |          |                | 25.9       | 6.50                                        |                   |                              | Ø    |         |      |
| 20                                   | 1.8               | 7.30                   |             |                              | 26.7       | 7.73            |          |                | 26.4       | 3.57                                        |                   |                              | Ø    |         |      |
| 21                                   | 2.0               | 7.25                   |             |                              | 24.8       | 7.57            |          |                | 25.4       | 5.22                                        |                   |                              | .23  |         |      |
| 22                                   | 1.6               | 7.32                   | 301.0       | 417.0                        | 27.0       | 7.47            | 3.5      | 8.0            | 25.4       | 4.50                                        | 112.0             |                              | .57  |         |      |
| 23                                   | 1.7               | 7.33                   |             |                              | 26.4       | 7.56            |          |                | 26.0       | 4.90                                        |                   |                              | Ø    |         |      |
| 24                                   | 1.6               | 7.25                   |             |                              | 28.5       | 7.55            |          |                | 27.4       | 3.72                                        |                   |                              | Ø    |         |      |
| 25                                   | 1.3               | 7.28                   |             |                              | 27.7       | 7.45            |          |                | 26.6       | 2.63                                        |                   |                              | Ø    |         |      |
| 26                                   | 1.5               | 7.22                   |             |                              | 24.2       | 7.51            |          |                | 24.9       | 3.94                                        |                   |                              | Ø    |         |      |
| 27                                   | 1.5               | 7.40                   |             |                              | 26.0       | 7.60            |          |                | 27.6       | 4.03                                        |                   |                              | Ø    |         |      |
| 28                                   | 1.6               | 7.75                   | 331.0       | 820.0                        | 26.8       | 7.57            | 3.4      | 5.0            | 27.7       | 5.56                                        | 20.0              |                              | Ø    |         |      |
| 29                                   | 2.9               | 7.67                   |             |                              | 27.4       | 7.42            |          |                | 28.0       | 5.88                                        |                   |                              | Ø    |         |      |
| 30                                   | 2.5               | 7.32                   |             |                              | 25.6       | 7.57            |          |                | 25.4       | 3.61                                        |                   |                              | Ø    |         |      |
| 31                                   | 2.3               | 7.45                   |             |                              | 24.4       | 7.55            |          |                | 25.4       | 3.50                                        |                   |                              | Ø    |         |      |
| No. of Samp.                         | 31.0              | 31.0                   | 5.0         | 5.0                          | 31.0       | 31.0            | 5.0      | 5.0            | 31.0       | 31.0                                        | 5.0               |                              |      |         |      |
| Tot of Samp.                         | 70.8              |                        | 1374.0      | 1795.0                       | 790.9      | 233.2           | 95.5     | 110.0          | 777.8      | 126.2                                       | 393.0             |                              |      |         |      |
| Monthly Avg.                         | 2.3               |                        | 274.8       | 359.0                        |            |                 | 19.1     | 22.0           |            |                                             | 78.6              |                              |      |         |      |
| Daily Max.                           | 6.9               | 7.8                    | 334.0       | 820.0                        | 30.7       | 7.8             | 58.6     | 51.0           | 28.0       | 7.1                                         | 125.0             |                              |      |         |      |
| Daily Min.                           |                   | 7.1                    |             |                              | 20.7       | 7.1             |          |                | 22.2       | 2.6                                         | 20.0              |                              |      |         |      |
| Max 7/Avg.                           |                   |                        |             |                              |            |                 |          |                |            |                                             |                   |                              |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

MO 790-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |                   |          |                               |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |
|---------------------------------------------|-------------------|----------|-------------------------------|-----------------|------------|-------------------------------------|----------|----------------|------------|--------------|-------------------|----------------------------------------------------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |                   |          |                               |                 |            | CITY<br><b>NEOSHO</b>               |          |                |            |              |                   | COUNTY/REGION<br><b>SPRINGFIELD</b>                |      |         |      |
| FOR THE MONTH OF<br><b>JANUARY-014</b>      |                   |          | OUTFALL NUMBER<br><b>#001</b> |                 |            | PERMIT NUMBER<br><b>MO# 0104906</b> |          |                |            |              |                   | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |      |         |      |
| INFLUENT                                    |                   |          |                               |                 |            | EFFLUENT                            |          |                |            |              |                   |                                                    |      |         |      |
| DAY                                         | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L                   | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                            | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | inches snow                                        | RAIN | WEATHER | TIME |
| 1                                           | 1.4               | 7.47     |                               |                 | 15.5       | 7.33                                |          |                | 14.5       | 5.38         |                   |                                                    |      |         |      |
| 2                                           | 1.0               | 8.10     |                               |                 | 8.8        | 7.38                                |          |                | 9.4        | 6.70         |                   | 1.0                                                | 0.1  |         |      |
| 3                                           | 1.1               | 7.60     | 302.0                         | 244.0           | 11.3       | 7.39                                | 5.8      | 8.0            | 11.6       | 3.10         | n/a               |                                                    |      |         |      |
| 4                                           | 1.4               | 7.36     |                               |                 | 10.8       | 7.45                                |          |                | 9.8        | 6.42         |                   |                                                    |      |         |      |
| 5                                           | 1.4               | 6.90     |                               |                 | 8.0        | 7.33                                |          |                | 6.8        | 6.62         |                   | 4.5                                                | 0.47 |         |      |
| 6                                           | 1.3               | 7.65     |                               |                 | 9.3        | 7.52                                |          |                | 9.3        | 6.42         |                   | 1.5                                                |      |         |      |
| 7                                           | 2.5               | 7.90     |                               |                 | 10.9       | 7.58                                |          |                | 8.4        | 7.58         |                   |                                                    |      |         |      |
| 8                                           | 1.0               | 7.92     |                               |                 | 9.2        | 7.44                                |          |                | 8.3        | 6.05         |                   |                                                    |      |         |      |
| 9                                           | 1.0               | 7.98     |                               |                 | 11.5       | 7.31                                |          |                | 11.0       | 6.10         |                   |                                                    |      |         |      |
| 10                                          | 1.0               | 7.42     | 134.0                         | 90.0            | 13.5       | 7.35                                | 15.2     | 18.0           | 15.5       | 4.38         | n/a               |                                                    |      |         |      |
| 11                                          | 2.2               | 7.62     |                               |                 | 11.3       | 7.32                                |          |                | 10.0       | 6.53         |                   |                                                    | 0.23 |         |      |
| 12                                          | 2.2               | 7.65     |                               |                 | 11.8       | 7.31                                |          |                | 11.2       | 5.44         |                   |                                                    |      |         |      |
| 13                                          | 1.0               | 7.63     |                               |                 | 14.0       | 7.42                                |          |                | 12.0       | 4.88         |                   |                                                    |      |         |      |
| 14                                          | 1.4               | 7.64     |                               |                 | 13.6       | 7.44                                |          |                | 11.8       | 8.18         |                   |                                                    |      |         |      |
| 15                                          | 2.7               | 7.81     | 192.0                         | 226.0           | 13.4       | 7.50                                | 4.4      | 5.0            | 12.1       | 5.90         | n/a               |                                                    |      |         |      |
| 16                                          | 1.2               | 7.79     |                               |                 | 13.3       | 7.44                                |          |                | 11.7       | 6.65         |                   |                                                    |      |         |      |
| 17                                          | 1.0               | 7.48     |                               |                 | 12.8       | 7.39                                |          |                | 10.9       | 6.23         |                   |                                                    |      |         |      |
| 18                                          | 1.2               | 7.62     |                               |                 | 10.1       | 7.31                                |          |                | 9.8        | 6.92         |                   |                                                    |      |         |      |
| 19                                          | 1.2               | 7.71     |                               |                 | 9.4        | 7.48                                |          |                | 9.2        | 6.71         |                   |                                                    |      |         |      |
| 20                                          | 1.0               | 7.64     |                               |                 | 10.3       | 7.39                                |          |                | 10.9       | 5.94         |                   |                                                    |      |         |      |
| 21                                          | 2.3               | 7.30     |                               |                 | 8.7        | 7.62                                |          |                | 9.1        | 7.56         |                   |                                                    |      |         |      |
| 22                                          | 1.8               | 7.84     | 272.0                         | 176.0           | 12.2       | 7.47                                | 9.7      | 6.0            | 10.9       | 8.28         | n/a               |                                                    |      |         |      |
| 23                                          | 1.1               | 7.73     |                               |                 | 10.6       | 7.55                                |          |                | 9.0        | 5.80         |                   |                                                    |      |         |      |
| 24                                          | 1.3               | 7.66     |                               |                 | 11.3       | 7.46                                |          |                | 9.5        | 8.95         |                   |                                                    |      |         |      |
| 25                                          | 1.0               | 7.58     |                               |                 | 14.7       | 7.27                                |          |                | 13.5       | 5.40         |                   |                                                    |      |         |      |
| 26                                          | 1.4               | 7.61     |                               |                 | 14.6       | 7.34                                |          |                | 13.2       | 5.89         |                   |                                                    |      |         |      |
| 27                                          | 1.7               | 8.52     |                               |                 | 9.3        | 7.33                                |          |                | 6.2        | 5.64         |                   |                                                    |      |         |      |
| 28                                          | 1.7               | 7.54     |                               |                 | 9.3        | 7.57                                |          |                | 9.5        | 5.66         |                   |                                                    |      |         |      |
| 29                                          | 1.2               | 7.60     | 180.0                         | 512.0           | 12.1       | 7.40                                | 9.0      | 16.0           | 9.7        | 5.50         | n/a               |                                                    |      |         |      |
| 30                                          | 2.6               | 7.68     |                               |                 | 12.9       | 7.46                                |          |                | 11.5       | 5.22         |                   |                                                    |      |         |      |
| 31                                          | 1.0               | 7.52     |                               |                 | 11.8       | 7.39                                |          |                | 10.9       | 4.88         |                   |                                                    |      |         |      |
| No. of Samp.                                | 31.0              | 31.0     | 5.0                           | 5.0             | 31.0       | 31.0                                | 5.0      | 5.0            | 31.0       | 31.0         | 0.0               |                                                    |      |         |      |
| Tot of Samp.                                | 45.3              |          | 1080.0                        | 1248.0          | 356.3      | 229.9                               | 44.1     | 53.0           | 327.2      | 190.9        | 0.0               |                                                    |      |         |      |
| Monthly Avg.                                | 1.5               |          | 216.0                         | 249.6           |            |                                     | 8.8      | 10.6           |            |              | #DIV/0!           |                                                    |      |         |      |
| Daily Max.                                  | 2.7               | 8.5      | 302.0                         | 512.0           | 15.5       | 7.6                                 | 15.2     | 18.0           | 15.5       | 9.0          | 0.0               |                                                    |      |         |      |
| Daily Min.                                  |                   | 6.9      |                               |                 | 8.0        | 7.3                                 |          |                | 6.2        | 3.1          | 0.0               |                                                    |      |         |      |
| Max 7/Avg.                                  |                   |          |                               |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                  | COUNTY/REGION           |         |      |  |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|------------------|-------------------------|---------|------|--|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                  | SPRINGFIELD             |         |      |  |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                  | TYPE TREATMENT FACILITY |         |      |  |  |  |
| February-13      |                   |          |             |                 |            | MO# 0104906   |          |                |            |              |                  | OXI-DATION DITCH        |         |      |  |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                  |                         |         |      |  |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | RAIN                    | WEATHER | TIME |  |  |  |
| 1                | 2.6               | 7.67     |             |                 | 11.4       | 7.34          |          |                | 11.6       | 3.20         |                  | .3                      | .03     |      |  |  |  |
| 2                | 1.4               | 7.57     |             |                 | 11.3       | 7.38          |          |                | 11.5       | 5.70         |                  |                         |         |      |  |  |  |
| 3                | 1.6               | 7.66     |             |                 | 10.5       | 7.60          |          |                | 11.4       | 4.17         |                  |                         |         |      |  |  |  |
| 4                | 1.8               | 7.56     |             |                 | 16.0       | 7.39          |          |                | 13.0       | 2.75         |                  | .06                     |         |      |  |  |  |
| 5                | 1.7               | 7.90     |             |                 | 15.5       | 7.40          |          |                | 13.3       | 5.33         |                  |                         |         |      |  |  |  |
| 6                | 1.8               | 7.1      | 266.0       | 174.0           | 15.0       | 7.47          | 4.0      | 5.0            | 15.0       | 2.60         |                  |                         |         |      |  |  |  |
| 7                | 1.8               | 7.69     |             |                 | 14.6       | 7.10          |          |                | 14.0       | 2.80         |                  |                         |         |      |  |  |  |
| 8                | 1.8               | 7.68     |             |                 | 15.7       | 6.98          |          |                | 13.3       | 2.55         |                  | .32                     |         |      |  |  |  |
| 9                | 1.0               | 7.21     |             |                 | 12.2       | 7.44          |          |                | 14.1       | 5.53         |                  |                         |         |      |  |  |  |
| 10               | 1.4               | 7.45     |             |                 | 15.3       | 7.11          |          |                | 14.5       | 3.63         |                  | .40                     |         |      |  |  |  |
| 11               | 2.1               | 7.37     |             |                 | 14.6       | 7.14          |          |                | 13.0       | 2.85         |                  |                         |         |      |  |  |  |
| 12               | 1.7               | 7.76     |             |                 | 13.0       | 7.22          |          |                | 11.5       | 4.33         |                  |                         |         |      |  |  |  |
| 13               | 1.2               | 7.50     |             |                 | 14.2       | 7.00          |          |                | 11.8       | 3.38         |                  | 1.0                     | .31     |      |  |  |  |
| 14               | 1.9               | 8.55     | 157.0       | 168.0           | 15.4       | 7.16          | 12.5     | 9.0            | 12.7       | 4.08         |                  |                         |         |      |  |  |  |
| 15               | 1.9               | 7.63     |             |                 | 12.7       | 7.27          |          |                | 11.0       | 3.30         |                  |                         |         |      |  |  |  |
| 16               | 1.0               | 7.58     |             |                 | 11.5       | 7.21          |          |                | 13.0       | 3.56         |                  | .02                     |         |      |  |  |  |
| 17               | 1.4               | 7.53     |             |                 | 11.8       | 7.17          |          |                | 11.0       | 4.17         |                  |                         |         |      |  |  |  |
| 18               | 1.7               | 8.20     |             |                 | 13.3       | 7.30          |          |                | 13.0       | 3.52         |                  |                         |         |      |  |  |  |
| 19               | 1.3               | 7.91     |             |                 | 12.2       | 7.67          |          |                | 13.6       | 3.43         |                  | .01                     |         |      |  |  |  |
| 20               | 1.4               | 7.94     | 348.0       | 160.0           | 7.0        | 7.69          | 4.4      | 5.0            | 9.9        | 2.50         |                  |                         |         |      |  |  |  |
| 21               | 2.0               | 7.88     |             |                 | 11.3       | 7.60          |          |                | 10.0       | 2.38         |                  | .30                     |         |      |  |  |  |
| 22               | 1.9               | 7.95     |             |                 | 11.4       | 7.65          |          |                | 11.0       | 2.78         |                  | .63                     |         |      |  |  |  |
| 23               | 1.8               | 7.88     |             |                 | 10.2       | 7.75          |          |                | 10.5       | 3.72         |                  |                         |         |      |  |  |  |
| 24               | 1.8               | 7.92     |             |                 | 10.0       | 7.59          |          |                | 9.7        | 7.96         |                  |                         |         |      |  |  |  |
| 25               | 2.2               | 8.47     |             |                 | 10.0       | 7.66          |          |                | 10.0       | 5.25         |                  |                         |         |      |  |  |  |
| 26               | 2.2               | 8.07     |             |                 | 10.5       | 7.39          |          |                | 9.5        | 2.83         |                  | 4.0                     | .81     |      |  |  |  |
| 27               | 3.0               | 7.88     |             |                 | 10.1       | 7.46          |          |                | 9.3        | 2.35         |                  | .01                     |         |      |  |  |  |
| 28               | 2.5               | 8.11     | 181.0       | 124.0           | 10.8       | 7.48          | 8.6      | 5.0            | 10.2       | 4.07         |                  |                         |         |      |  |  |  |
| 29               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |
| 30               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |
| 31               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |
| No. of Samp.     | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0          | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                         |         |      |  |  |  |
| Tot of Samp.     | 49.9              |          | 952.0       | 626.0           | 347.5      | 206.6         | 29.5     | 24.0           | 332.4      | 104.7        | 0.0              |                         |         |      |  |  |  |
| Monthly Avg.     | 1.8               |          | 238.0       | 156.5           |            |               | 7.4      | 6.0            |            |              | #DIV/0!          |                         |         |      |  |  |  |
| Daily Max.       | 3.0               | 8.6      | 348.0       | 174.0           | 16.0       | 7.8           | 12.5     | 9.0            | 15.0       | 8.0          | 0.0              |                         |         |      |  |  |  |
| Daily Min.       |                   | 7.1      |             |                 | 7.0        | 7.0           |          |                | 9.3        | 2.4          | 0.0              |                         |         |      |  |  |  |
| Max 7/Avg.       |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: Shoal  
Pace Project No.: 60204461

**Sample: SHOAL -EFFLUENT**      **Lab ID: 60204461001**      Collected: 10/07/15 08:45      Received: 10/07/15 14:15      Matrix: Water

| Parameters                                                                                               | Results | Units      | Report Limit | MDL | DF | Prepared       | Analyzed       | CAS No. | Qual |
|----------------------------------------------------------------------------------------------------------|---------|------------|--------------|-----|----|----------------|----------------|---------|------|
| <b>MBIO 9223B E.Coli</b> Analytical Method: SM 9223B Colilert      Preparation Method: SM 9223B Colilert |         |            |              |     |    |                |                |         |      |
| Escherichia coli (E.coli)                                                                                | 155     | MPN/100 mL | 1.0          | 1.0 | 1  | 10/07/15 14:35 | 10/08/15 14:40 |         |      |

**Sample: SHOAL-INFLUENT (A1)**      **Lab ID: 60204461002**      Collected: 10/07/15 08:00      Received: 10/07/15 18:30      Matrix: Water

| Parameters                                                                            | Results | Units | Report Limit | MDL | DF | Prepared       | Analyzed       | CAS No. | Qual |
|---------------------------------------------------------------------------------------|---------|-------|--------------|-----|----|----------------|----------------|---------|------|
| <b>2540D Total Suspended Solids</b> Analytical Method: SM 2540D                       |         |       |              |     |    |                |                |         |      |
| Total Suspended Solids                                                                | 410     | mg/L  | 5.0          | 5.0 | 1  |                | 10/12/15 09:41 |         |      |
| <b>5210B BOD, 5 day</b> Analytical Method: SM 5210B      Preparation Method: SM 5210B |         |       |              |     |    |                |                |         |      |
| BOD, 5 day                                                                            | 291     | mg/L  | 2.0          | 2.0 | 1  | 10/08/15 11:05 | 10/13/15 15:29 |         |      |

**Sample: SHOAL-EFFLUENT (C2)**      **Lab ID: 60204461003**      Collected: 10/07/15 08:45      Received: 10/07/15 18:30      Matrix: Water

| Parameters                                                                              | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>200.8 MET ICPMS</b> Analytical Method: EPA 200.8      Preparation Method: EPA 200.8  |         |       |              |       |    |                |                |            |      |
| Cadmium                                                                                 | ND      | ug/L  | 0.50         | 0.082 | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7440-43-9  |      |
| Chromium                                                                                | 0.86J   | ug/L  | 1.0          | 0.16  | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7440-47-3  |      |
| Copper                                                                                  | 1.3     | ug/L  | 1.0          | 0.21  | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7440-50-8  |      |
| Iron                                                                                    | 91.1    | ug/L  | 50.0         | 7.7   | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7439-89-6  |      |
| Lead                                                                                    | 0.31J   | ug/L  | 1.0          | 0.23  | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7439-92-1  |      |
| Nickel                                                                                  | 1.1     | ug/L  | 1.0          | 0.39  | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7440-02-0  |      |
| Selenium                                                                                | 0.19J   | ug/L  | 1.0          | 0.12  | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7782-49-2  |      |
| Zinc                                                                                    | 20.7    | ug/L  | 10.0         | 4.5   | 1  | 10/12/15 10:35 | 10/16/15 17:54 | 7440-66-6  |      |
| <b>245.1 Mercury</b> Analytical Method: EPA 245.1      Preparation Method: EPA 245.1    |         |       |              |       |    |                |                |            |      |
| Mercury                                                                                 | ND      | ug/L  | 0.20         | 0.012 | 1  | 10/12/15 15:25 | 10/13/15 10:23 | 7439-97-6  |      |
| <b>HEM, Oil and Grease</b> Analytical Method: EPA 1664A                                 |         |       |              |       |    |                |                |            |      |
| Oil and Grease                                                                          | ND      | mg/L  | 5.0          | 0.72  | 1  |                | 10/14/15 09:08 |            |      |
| <b>2540D Total Suspended Solids</b> Analytical Method: SM 2540D                         |         |       |              |       |    |                |                |            |      |
| Total Suspended Solids                                                                  | ND      | mg/L  | 5.0          | 5.0   | 1  |                | 10/12/15 09:42 |            |      |
| <b>5210B BOD, 5 day</b> Analytical Method: SM 5210B      Preparation Method: SM 5210B   |         |       |              |       |    |                |                |            |      |
| BOD, 5 day                                                                              | 12.8    | mg/L  | 2.0          | 2.0   | 1  | 10/08/15 13:00 | 10/13/15 10:44 |            |      |
| <b>Trivalent Chromium Calculation</b> Analytical Method: Trivalent Chromium Calculation |         |       |              |       |    |                |                |            |      |
| Chromium, Trivalent                                                                     | ND      | mg/L  | 0.010        | 0.010 | 1  |                | 10/20/15 08:40 | 16065-83-1 |      |

## REPORT OF LABORATORY ANALYSIS

Date: 10/20/2015 02:15 PM

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## ANALYTICAL RESULTS

Project: SHOAL 1/10/14

Pace Project No.: 60161012

| Sample: SHOAL INFLUENT-(A1) Lab ID: 60161012001 Collected: 01/10/14 08:20 Received: 01/10/14 18:18 Matrix: Water |                                                          |       |              |    |                |                |         |      |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------|--------------|----|----------------|----------------|---------|------|
| Parameters                                                                                                       | Results                                                  | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b>                                                                              | Analytical Method: SM 2540D                              |       |              |    |                |                |         |      |
| Total Suspended Solids                                                                                           | 90.0                                                     | mg/L  | 5.0          | 1  |                | 01/16/14 07:49 |         |      |
| <b>5210B BOD, 5 day</b>                                                                                          | Analytical Method: SM 5210B Preparation Method: SM 5210B |       |              |    |                |                |         |      |
| BOD, 5 day                                                                                                       | 134                                                      | mg/L  | 2.0          | 1  | 01/11/14 11:25 | 01/16/14 13:43 |         |      |

| Sample: SHOAL EFFLUENT-(C2) Lab ID: 60161012002 Collected: 01/10/14 08:30 Received: 01/10/14 18:18 Matrix: Water |                                                            |       |              |    |                |                |            |      |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------|--------------|----|----------------|----------------|------------|------|
| Parameters                                                                                                       | Results                                                    | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.7 Metals, Total</b>                                                                                       | Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 |       |              |    |                |                |            |      |
| Cadmium                                                                                                          | 0.30J                                                      | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-43-9  |      |
| Chromium                                                                                                         | 0.51J                                                      | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-47-3  |      |
| Copper                                                                                                           | 6.8J                                                       | ug/L  | 10.0         | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-50-8  |      |
| Iron                                                                                                             | 215                                                        | ug/L  | 50.0         | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7439-89-6  |      |
| Lead                                                                                                             | 0.0J                                                       | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7439-92-1  |      |
| Nickel                                                                                                           | 1.5J                                                       | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-02-0  |      |
| Zinc                                                                                                             | 49.6J                                                      | ug/L  | 50.0         | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-66-6  |      |
| <b>200.8 MET ICPMS</b>                                                                                           | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |       |              |    |                |                |            |      |
| Selenium                                                                                                         | ND                                                         | ug/L  | 1.0          | 1  | 01/13/14 15:30 | 01/14/14 11:33 | 7782-49-2  |      |
| <b>245.1 Mercury</b>                                                                                             | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 |       |              |    |                |                |            |      |
| Mercury                                                                                                          | ND                                                         | ug/L  | 0.20         | 1  | 01/14/14 09:00 | 01/14/14 12:57 | 7439-97-6  |      |
| <b>HEM, Oil and Grease</b>                                                                                       | Analytical Method: EPA 1664A                               |       |              |    |                |                |            |      |
| Oil and Grease                                                                                                   | 16.5                                                       | mg/L  | 5.0          | 1  |                | 01/24/14 08:17 |            |      |
| <b>2540D Total Suspended Solids</b>                                                                              | Analytical Method: SM 2540D                                |       |              |    |                |                |            |      |
| Total Suspended Solids                                                                                           | 18.0                                                       | mg/L  | 5.0          | 1  |                | 01/16/14 07:49 |            |      |
| <b>5210B BOD, 5 day</b>                                                                                          | Analytical Method: SM 5210B Preparation Method: SM 5210B   |       |              |    |                |                |            |      |
| BOD, 5 day                                                                                                       | 15.2                                                       | mg/L  | 2.0          | 1  | 01/11/14 11:25 | 01/16/14 13:45 |            |      |
| <b>Trivalent Chromium Calculation</b>                                                                            | Analytical Method: Trivalent Chromium Calculation          |       |              |    |                |                |            |      |
| Chromium, Trivalent                                                                                              | ND                                                         | mg/L  | 0.010        | 1  |                | 01/23/14 00:00 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b>                                                                                      | Analytical Method: SM 3500-Cr B                            |       |              |    |                |                |            |      |
| Chromium, Hexavalent                                                                                             | ND                                                         | mg/L  | 0.010        | 1  |                | 01/11/14 08:28 | 18540-29-9 |      |
| <b>350.1 Ammonia</b>                                                                                             | Analytical Method: EPA 350.1                               |       |              |    |                |                |            |      |
| Nitrogen, Ammonia                                                                                                | 0.14                                                       | mg/L  | 0.10         | 1  |                | 01/22/14 13:21 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b>                                                                              | Analytical Method: EPA 420.1                               |       |              |    |                |                |            |      |
| Phenolics, Total Recoverable                                                                                     | 0.21                                                       | mg/L  | 0.050        | 1  |                | 01/16/14 12:21 |            |      |

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Date: 01/24/2014 05:04 PM

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## ANALYTICAL RESULTS

Project: SHOAL 1/3/13  
Pace Project No.: 60136297

| Sample: SHOAL INFLUENT (A1)      Lab ID: 60136297001      Collected: 01/03/13 07:15      Received: 01/03/13 18:20      Matrix: Water |          |       |              |          |    |                |                |            |      |
|--------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|----------|----|----------------|----------------|------------|------|
| Parameters                                                                                                                           | Results  | Units | Report Limit | MDL      | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>2540D Total Suspended Solids</b> Analytical Method: SM 2540D                                                                      |          |       |              |          |    |                |                |            |      |
| Total Suspended Solids                                                                                                               | 146      | mg/L  | 5.0          | 5.0      | 1  |                | 01/04/13 09:58 |            |      |
| <b>5210B BOD, 5 day</b> Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |          |       |              |          |    |                |                |            |      |
| BOD, 5 day                                                                                                                           | 163      | mg/L  | 2.0          | 2.0      | 1  | 01/04/13 11:25 | 01/09/13 15:44 |            |      |
| Sample: SHOAL EFFLUENT (C2)      Lab ID: 60136297002      Collected: 01/03/13 08:45      Received: 01/03/13 18:20      Matrix: Water |          |       |              |          |    |                |                |            |      |
| Parameters                                                                                                                           | Results  | Units | Report Limit | MDL      | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.7 Metals, Total</b> Analytical Method: EPA 200.7      Preparation Method: EPA 200.7                                           |          |       |              |          |    |                |                |            |      |
| Cadmium                                                                                                                              | 0.00048J | mg/L  | 0.0050       | 0.00039  | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-43-9  |      |
| Chromium                                                                                                                             | 0.00080J | mg/L  | 0.0050       | 0.00069  | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-47-3  |      |
| Copper                                                                                                                               | 0.0041J  | mg/L  | 0.010        | 0.00099  | 1  | 01/04/13 15:40 | 01/07/13 15:31 | 7440-50-8  |      |
| Iron                                                                                                                                 | 0.036J   | mg/L  | 0.050        | 0.017    | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7439-89-6  |      |
| Lead                                                                                                                                 | 0.0032J  | mg/L  | 0.0050       | 0.0024   | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7439-92-1  |      |
| Nickel                                                                                                                               | 0.00099J | mg/L  | 0.0050       | 0.00080  | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-02-0  |      |
| Selenium                                                                                                                             | ND       | mg/L  | 0.014        | 0.0027   | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7782-49-2  |      |
| Zinc                                                                                                                                 | 0.056    | mg/L  | 0.050        | 0.0073   | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-66-6  |      |
| <b>245.1 Mercury</b> Analytical Method: EPA 245.1      Preparation Method: EPA 245.1                                                 |          |       |              |          |    |                |                |            |      |
| Mercury                                                                                                                              | ND       | mg/L  | 0.00020      | 0.000053 | 1  | 01/09/13 13:00 | 01/10/13 10:16 | 7439-97-6  |      |
| <b>HEM, Oil and Grease</b> Analytical Method: EPA 1664A                                                                              |          |       |              |          |    |                |                |            |      |
| Oil and Grease                                                                                                                       | 0.71J    | mg/L  | 5.0          | 0.44     | 1  |                | 01/08/13 10:22 |            | B    |
| <b>2540D Total Suspended Solids</b> Analytical Method: SM 2540D                                                                      |          |       |              |          |    |                |                |            |      |
| Total Suspended Solids                                                                                                               | 10.0     | mg/L  | 5.0          | 5.0      | 1  |                | 01/04/13 09:58 |            |      |
| <b>5210B BOD, 5 day</b> Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |          |       |              |          |    |                |                |            |      |
| BOD, 5 day                                                                                                                           | 3.8      | mg/L  | 2.0          | 2.0      | 1  | 01/04/13 16:41 | 01/09/13 17:05 |            |      |
| <b>Trivalent Chromium Calculation</b> Analytical Method: Trivalent Chromium Calculation                                              |          |       |              |          |    |                |                |            |      |
| Chromium, Trivalent                                                                                                                  | ND       | mg/L  | 0.050        |          | 1  |                | 01/14/13 09:36 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b> Analytical Method: SM 3500-Cr D                                                                          |          |       |              |          |    |                |                |            |      |
| Chromium, Hexavalent                                                                                                                 | ND       | mg/L  | 0.010        | 0.0026   | 1  |                | 01/04/13 08:32 | 18540-29-9 |      |
| <b>350.1 Ammonia</b> Analytical Method: EPA 350.1                                                                                    |          |       |              |          |    |                |                |            |      |
| Nitrogen, Ammonia                                                                                                                    | 0.046J   | mg/L  | 0.10         | 0.034    | 1  |                | 01/07/13 11:15 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b> Analytical Method: EPA 420.1                                                                     |          |       |              |          |    |                |                |            |      |
| Phenolics, Total Recoverable                                                                                                         | ND       | mg/L  | 0.050        | 0.011    | 1  |                | 01/10/13 12:30 |            |      |

Date: 01/14/2013 11:57 AM

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## ANALYTICAL RESULTS

Project: SHOAL 10/2/13  
Pace Project No.: 60154547

| Sample: SHOAL INFLUENT A1           |         | Lab ID: 60154547001                                      | Collected: 10/02/13 08:30 | Received: 10/02/13 18:30 | Matrix: Water  |                |         |      |
|-------------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                          | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |                           |                          |                |                |         |      |
| Total Suspended Solids              | 103     | mg/L                                                     | 5.0                       | 1                        |                | 10/09/13 09:37 |         |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |         |      |
| BOD, 5 day                          | 109     | mg/L                                                     | 2.0                       | 1                        | 10/03/13 14:42 | 10/08/13 08:08 |         |      |

| Sample: SHOAL EFFLUENT C2             |         | Lab ID: 60154547002                                        | Collected: 10/02/13 08:45 | Received: 10/02/13 18:30 | Matrix: Water  |                |            |      |
|---------------------------------------|---------|------------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                            | Results | Units                                                      | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.7 Metals, Total</b>            |         | Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 |                           |                          |                |                |            |      |
| Chromium                              | 2.8J    | ug/L                                                       | 5.0                       | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-47-3  |      |
| Copper                                | 5.4J    | ug/L                                                       | 10.0                      | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-50-8  |      |
| Iron                                  | 24.8J   | ug/L                                                       | 50.0                      | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7439-89-6  |      |
| Lead                                  | ND      | ug/L                                                       | 5.0                       | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7439-92-1  |      |
| Nickel                                | 2.1J    | ug/L                                                       | 5.0                       | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-02-0  |      |
| Zinc                                  | 20.0J   | ug/L                                                       | 50.0                      | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-66-6  |      |
| <b>200.8 MET ICPMS</b>                |         | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |                           |                          |                |                |            |      |
| Selenium                              | 0.24J   | ug/L                                                       | 1.0                       | 1                        | 10/03/13 17:10 | 10/08/13 19:17 | 7782-49-2  |      |
| <b>245.1 Mercury</b>                  |         | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 |                           |                          |                |                |            |      |
| Mercury                               | ND      | ug/L                                                       | 0.20                      | 1                        | 10/04/13 09:30 | 10/04/13 14:17 | 7439-97-6  |      |
| <b>HEM, Oil and Grease</b>            |         | Analytical Method: EPA 1664A                               |                           |                          |                |                |            |      |
| Oil and Grease                        | ND      | mg/L                                                       | 5.0                       | 1                        |                | 10/09/13 07:25 |            |      |
| <b>2540D Total Suspended Solids</b>   |         | Analytical Method: SM 2540D                                |                           |                          |                |                |            |      |
| Total Suspended Solids                | ND      | mg/L                                                       | 5.0                       | 1                        |                | 10/09/13 09:37 |            |      |
| <b>5210B BOD, 5 day</b>               |         | Analytical Method: SM 5210B Preparation Method: SM 5210B   |                           |                          |                |                |            |      |
| BOD, 5 day                            | 2.1     | mg/L                                                       | 2.0                       | 1                        | 10/03/13 14:43 | 10/08/13 08:11 |            |      |
| <b>Trivalent Chromium Calculation</b> |         | Analytical Method: Trivalent Chromium Calculation          |                           |                          |                |                |            |      |
| Chromium, Trivalent                   | ND      | mg/L                                                       | 0.050                     | 1                        |                | 10/17/13 16:41 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b>           |         | Analytical Method: SM 3500-Cr B                            |                           |                          |                |                |            |      |
| Chromium, Hexavalent                  | ND      | mg/L                                                       | 0.010                     | 1                        |                | 10/03/13 08:32 | 18540-29-9 |      |
| <b>350.1 Ammonia</b>                  |         | Analytical Method: EPA 350.1                               |                           |                          |                |                |            |      |
| Nitrogen, Ammonia                     | ND      | mg/L                                                       | 0.10                      | 1                        |                | 10/09/13 11:53 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b>   |         | Analytical Method: EPA 420.1                               |                           |                          |                |                |            |      |
| Phenolics, Total Recoverable          | ND      | mg/L                                                       | 0.050                     | 1                        |                | 10/08/13 20:20 |            |      |

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## **Appendix B – Wastewater Flow and Biological Loadings**

Shoal Creek and Crowder WWTP  
Combined Flows

| Date       | MO MAX |      |
|------------|--------|------|
| 1/3/2020   | 3.17   |      |
| 1/8/2020   | 3.17   |      |
| 1/15/2020  | 3.59   |      |
| 1/22/2020  | 2.21   |      |
| 1/29/2020  | 2.76   | 2.98 |
| 2/5/2020   | 0.00   | 2.34 |
| 2/12/2020  | 0.00   | 1.71 |
| 2/19/2020  | 0.00   | 0.99 |
| 2/26/202   | 0.00   | 0.55 |
| 3/4/2020   | 3.31   | 0.66 |
| 3/11/2020  | 2.91   | 1.24 |
| 3/18/2020  | 2.90   | 1.82 |
| 3/25/2020  | 3.17   | 2.46 |
| 4/1/2020   | 3.31   | 3.12 |
| 4/8/2020   | 3.86   | 3.23 |
| 4/15/2020  | 2.90   | 3.23 |
| 4/22/2020  | 3.86   | 3.42 |
| 4/29/2020  | 6.62   | 4.11 |
| 5/6/2020   | 4.14   | 4.27 |
| 5/13/2020  | 4.83   | 4.47 |
| 5/20/2020  | 3.72   | 4.63 |
| 5/27/2020  | 6.76   | 5.21 |
| 6/3/2020   | 5.10   | 4.91 |
| 6/10/2020  | 4.41   | 4.96 |
| 6/17/2020  | 2.76   | 4.55 |
| 6/24/2020  | 2.48   | 4.30 |
| 6/30/2020  | 0.00   | 2.95 |
| 7/8/2020   | 2.62   | 2.45 |
| 7/15/2020  | 2.62   | 2.10 |
| 7/22/2020  | 3.59   | 2.26 |
| 7/29/2020  | 2.62   | 2.29 |
| 8/5/2020   | 2.48   | 2.79 |
| 8/12/2020  | 2.48   | 2.76 |
| 8/19/2020  | 2.07   | 2.65 |
| 8/26/2020  | 2.48   | 2.43 |
| 9/2/2020   | 2.34   | 2.37 |
| 9/9/2020   | 2.21   | 2.32 |
| 9/16/2020  | 2.07   | 2.23 |
| 9/23/2020  | 2.07   | 2.23 |
| 9/30/2020  | 2.21   | 2.18 |
| 10/7/2020  | 2.21   | 2.15 |
| 10/14/2020 | 2.34   | 2.18 |
| 10/21/2020 | 2.34   | 2.23 |
|            |        | 2.28 |

|            |      |      |
|------------|------|------|
| Date       |      | 2.30 |
| 10/28/2020 | 4.83 | 3.17 |
| 11/4/2020  | 3.17 | 3.45 |
| 11/11/2020 | 4.14 | 4.04 |
| 11/18/2020 | 3.17 | 3.83 |
| 11/25/2020 | 5.79 | 4.22 |
| 12/2/2020  | 4.41 | 4.14 |
| 12/9/2020  | 3.03 | 4.11 |
| 12/16/2020 | 3.72 | 4.03 |
| 12/23/2020 | 2.76 | 3.94 |
| 12/30/2020 | 4.41 | 3.67 |
| 1/6/2021   | 5.52 | 3.89 |
| 1/13/2021  | 3.72 | 4.03 |
| 1/20/2021  | 4.14 | 4.11 |
| 1/27/2021  | 4.14 | 4.38 |
| 2/3/2021   | 3.31 | 4.16 |
| 2/10/2021  | 2.76 | 3.61 |
| 2/17/2021  | 2.90 | 3.45 |
| 2/25/2021  | 2.76 | 3.17 |
| 3/3/2021   | 2.21 | 2.79 |
| 3/10/2021  | 2.21 | 2.56 |
| 3/17/2021  | 5.93 | 3.20 |
| 3/24/2021  | 2.34 | 3.09 |
| 3/31/2021  | 3.86 | 3.31 |
| 4/1/2021   | 3.31 | 3.53 |
| 4/7/2021   | 3.59 | 3.81 |
| 4/14/2021  | 3.31 | 3.28 |
| 4/21/2021  | 2.76 | 3.36 |
| 4/28/2021  | 3.72 | 3.34 |
| 5/5/2021   | 4.55 | 3.59 |
| 5/12/2021  | 3.31 | 3.53 |
| 5/19/2021  | 3.17 | 3.50 |
| 5/26/2021  | 2.76 | 3.50 |
| 6/2/2021   | 6.48 | 4.05 |
| 6/9/2021   | 4.96 | 4.14 |
| 6/16/2021  | 2.76 | 4.03 |
| 6/23/2021  | 2.62 | 3.92 |
| 6/30/2021  | 5.65 | 4.50 |
| 7/7/2021   | 4.41 | 4.08 |
| 7/14/2021  | 3.45 | 3.78 |
| 7/21/2021  | 2.90 | 3.81 |
| 7/28/2021  | 2.90 | 3.86 |
| 8/4/2021   | 2.34 | 3.20 |
| 8/11/2021  | 2.07 | 2.73 |
| 8/18/2021  | 2.21 | 2.48 |
| 8/25/2021  | 1.93 | 2.29 |
|            |      | 2.14 |

|            |      |      |
|------------|------|------|
| Date       |      | 2.07 |
| 9/1/2021   | 1.93 | 2.02 |
| 9/8/2021   | 2.34 | 2.07 |
| 9/15/2021  | 2.34 | 2.21 |
| 9/22/2021  | 2.07 | 2.17 |
| 9/29/2021  | 2.21 | 2.18 |
| 10/6/2021  | 1.52 | 2.10 |
| 10/13/2021 | 3.45 | 2.32 |
| 10/20/2021 | 2.62 | 2.37 |
| 10/27/2021 | 2.76 | 2.51 |
| 11/3/2021  | 4.55 | 2.98 |
| 11/10/2021 | 2.76 | 3.23 |
| 11/17/2021 | 2.48 | 3.03 |
| 11/24/2021 | 2.76 | 3.06 |
| 12/1/2021  | 2.48 | 3.01 |
| 12/8/2021  | 2.21 | 2.54 |
| 12/15/2021 | 2.62 | 2.51 |
| 12/22/2021 | 1.65 | 2.34 |
| 12/28/2021 | 2.76 | 2.34 |
| 1/5/2022   | 3.72 | 2.59 |
| 1/12/2022  | 3.17 | 2.79 |
| 1/19/2022  | 3.17 | 2.90 |
| 1/26/2022  | 2.90 | 3.14 |
| 2/2/2022   | 0.00 | 2.59 |
| 2/9/2022   | 0.00 | 1.85 |
| 2/16/2022  | 0.00 | 1.21 |
| 2/23/2022  | 0.00 | 0.58 |
| 3/2/2022   | 2.90 | 0.58 |
| 3/9/2022   | 3.31 | 1.24 |
| 3/16/2022  | 3.31 | 1.90 |
| 3/23/2022  | 2.62 | 2.43 |
| 3/30/2022  | 4.00 | 3.23 |
| 4/6/2022   | 4.69 | 3.59 |
| 4/13/2022  | 4.41 | 3.81 |
| 4/20/2022  | 4.83 | 4.11 |
| 4/27/2022  | 4.41 | 4.47 |
| 5/4/2022   | 7.58 | 5.18 |
| 5/11/2022  | 6.07 | 5.46 |
| 5/18/2022  | 5.65 | 5.71 |
| 5/25/2022  | 5.52 | 5.85 |
| 6/1/2022   | 5.24 | 6.01 |
| 6/8/2022   | 4.27 | 5.35 |
| 6/15/2022  | 3.72 | 4.88 |
| 6/22/2022  | 3.45 | 4.44 |
| 6/29/2022  | 3.72 | 4.08 |
|            |      | 3.79 |
| Date       |      | 3.63 |



|            |      |      |
|------------|------|------|
| 7/6/2022   | 2.90 | 3.36 |
| 7/13/2022  | 2.76 | 3.13 |
| 7/20/2022  | 3.45 | 3.03 |
| 7/27/2022  | 2.76 | 2.96 |
| 8/3/2022   | 2.90 | 2.95 |
| 8/10/2022  | 2.21 | 2.81 |
| 8/17/2022  | 4.41 | 3.14 |
| 8/24/2022  | 1.93 | 2.84 |
| 8/31/2022  | 3.31 | 2.95 |
| 9/7/2022   | 2.76 | 2.92 |
| 9/14/2022  | 2.34 | 2.95 |
| 9/21/2022  | 2.21 | 2.51 |
| 9/28/2022  | 1.93 | 2.51 |
| 10/5/2022  | 2.07 | 2.26 |
| 10/12/2022 | 2.21 | 2.15 |
| 10/19/2022 | 1.93 | 2.07 |
| 10/26/2022 | 2.48 | 2.12 |
| 11/2/2022  | 2.62 | 2.26 |
| 11/9/2022  | 2.48 | 2.34 |
| 11/16/2022 | 2.76 | 2.45 |
| 11/23/2022 | 2.21 | 2.51 |
| 11/30/2022 | 2.76 | 2.56 |
| 12/7/2022  | 2.21 | 2.48 |
| 12/14/2022 | 2.07 | 2.40 |
| 12/21/2022 | 2.90 | 2.43 |
| 12/28/2022 | 4.27 | 2.84 |

Averages:

Max: 6.01

Minimum:

Shoal Creek and Crowder WWTP Combined Loads

| Date      | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) | <u>Monthly Averages</u>           |                      |
|-----------|-----------------------------------|----------------------|-----------------------------------|----------------------|
|           |                                   |                      | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
| 1/3/2020  | 13153.09                          | 1152.48              |                                   |                      |
| 1/8/2020  | 4835.53                           | 2091.08              |                                   |                      |
| 1/15/2020 | 7166.57                           | 1710.46              |                                   |                      |
| 1/22/2020 | 781.43                            | 1596.86              |                                   |                      |
| 1/29/2020 | 1924.85                           | 1722.04              | 5572.29                           | 1654.59              |
| 2/5/2020  |                                   |                      | 3677.09                           | 1780.11              |
| 2/12/2020 |                                   |                      | 3290.95                           | 1676.46              |
| 2/19/2020 |                                   |                      | 1353.14                           | 1659.45              |
| 2/26/2020 |                                   |                      | 1924.85                           | 1722.04              |
| 3/4/2020  | 4588.92                           | 4271.55              | 4588.92                           | 4271.55              |
| 3/11/2020 | 9029.66                           | 6394.46              | 6809.29                           | 5333.01              |
| 3/18/2020 | 2192.54                           | 4496.48              | 5270.38                           | 5054.16              |
| 3/25/2020 | 2831.86                           | 5083.99              | 4660.75                           | 5061.62              |
| 4/1/2020  | 1532.11                           | 895.28               | 4035.02                           | 4228.35              |
| 4/8/2020  | 7969.79                           | 14172.85             | 4711.19                           | 6208.61              |
| 4/15/2020 | 1892.50                           | 3713.53              | 3283.76                           | 5672.43              |
| 4/22/2020 | 3878.19                           | 3814.41              | 3620.89                           | 5536.01              |
| 4/29/2020 | 7153.71                           | 8379.21              | 4485.26                           | 6195.06              |
| 5/6/2020  | 2265.07                           | 2992.95              | 4631.85                           | 6614.59              |
| 5/13/2020 | 2894.77                           | 6074.40              | 3616.85                           | 4994.90              |
| 5/20/2020 | 2148.75                           | 1608.04              | 3668.10                           | 4573.80              |
| 5/27/2020 | 530.56                            | 1305.02              | 2998.57                           | 4071.92              |
| 6/3/2020  | 2440.57                           | 6031.54              | 2055.94                           | 3602.39              |
| 6/10/2020 | 4668.31                           | 4654.47              | 2536.59                           | 3934.69              |
| 6/17/2020 | 1565.68                           | 1463.16              | 2270.77                           | 3012.45              |
| 6/24/2020 | 7234.16                           | 3276.49              | 3287.86                           | 3346.14              |
| 6/30/2020 |                                   |                      | 3977.18                           | 3856.42              |
| 7/8/2020  | 8440.21                           | 5500.81              | 5477.09                           | 3723.73              |
| 7/15/2020 | 2327.00                           | 1065.65              | 4891.76                           | 2826.53              |
| 7/22/2020 | 7762.63                           | 6427.94              | 6441.00                           | 4067.72              |
| 7/29/2020 | 4495.03                           | 3316.09              | 5756.22                           | 4077.62              |
| 8/5/2020  | 5707.04                           | 1257.16              | 5746.38                           | 3513.53              |
| 8/12/2020 | 2106.88                           | 1027.42              | 4479.72                           | 2618.85              |
| 8/19/2020 | 8513.78                           | 914.50               | 5717.07                           | 2588.62              |
| 8/26/2020 | 2578.00                           | 1441.37              | 4680.14                           | 1591.31              |
| 9/2/2020  | 2197.99                           | 830.88               | 4220.74                           | 1094.27              |
| 9/9/2020  | 1852.76                           | 1354.79              | 3449.88                           | 1113.79              |
| 9/16/2020 | 1233.47                           | 536.07               | 3275.20                           | 1015.52              |
| 9/23/2020 | 2916.39                           | 5634.24              | 2155.72                           | 1959.47              |
| 9/30/2020 | 1348.91                           | 811.97               | 1909.90                           | 1833.59              |

|            |                       |          |         |         |
|------------|-----------------------|----------|---------|---------|
| 10/7/2020  | 1318.73               | 1975.85  | 1734.05 | 2062.58 |
| 10/14/2020 | 4450.46               | 4026.64  | 2253.59 | 2596.95 |
| 10/21/2020 | 3309.58               | 1361.03  | 2668.81 | 2761.94 |
|            | BOD <sub>5</sub> Load | TSS Load | 2606.92 | 2043.87 |
| Date       | (lb/day)              | (lb/day) | 3026.26 | 2454.51 |
| 10/28/2020 | 1508.95               | 2904.01  | 3089.66 | 2763.89 |
| 11/4/2020  | 2178.91               | 962.50   | 2332.48 | 1742.51 |
| 11/11/2020 | 14225.72              | 9581.16  | 5971.19 | 4482.56 |
| 11/18/2020 | 3604.16               | 2569.87  | 5379.43 | 4004.39 |
| 11/25/2020 | 2397.98               | 4209.98  | 4783.14 | 4045.51 |
| 12/2/2020  | 3757.46               | 1646.01  | 5232.85 | 3793.90 |
| 12/9/2020  | 4616.10               | 2545.65  | 5720.28 | 4110.53 |
| 12/16/2020 | 4057.83               | 3951.07  | 3686.71 | 2984.52 |
| 12/23/2020 | 5941.60               | 1616.48  | 4154.19 | 2793.84 |
| 12/30/2020 | 6063.85               | 7979.88  | 4887.37 | 3547.82 |
| 1/6/2021   | 1865.71               | 2988.84  | 4509.02 | 3816.39 |
| 1/13/2021  | 2118.39               | 2917.17  | 4009.48 | 3890.69 |
| 1/20/2021  | 6458.37               | 5714.76  | 4489.59 | 4243.43 |
| 1/27/2021  | 1123.50               | 1758.15  | 3525.97 | 4271.76 |
| 2/3/2021   |                       |          | 2891.50 | 3344.73 |
| 2/10/2021  |                       |          | 3233.42 | 3463.36 |
| 2/17/2021  |                       |          | 3790.94 | 3736.46 |
| 2/25/2021  |                       |          | 1123.50 | 1758.15 |
| 3/3/2021   | 6336.64               | 8918.76  | 6336.64 | 8918.76 |
| 3/10/2021  | 1580.58               | 1001.17  | 3958.61 | 4959.96 |
| 3/17/2021  | 3597.82               | 3304.91  | 3838.35 | 4408.28 |
| 3/24/2021  | 1025.67               | 719.96   | 3135.18 | 3486.20 |
| 3/31/2021  | 3163.18               | 4465.34  | 3140.78 | 3682.03 |
| 4/1/2021   | 322.26                | 202.16   | 1937.90 | 1938.71 |
| 4/7/2021   | 13792.75              | 1690.67  | 4380.34 | 2076.61 |
| 4/14/2021  | 4852.60               | 9229.27  | 4631.29 | 3261.48 |
| 4/21/2021  | 4933.18               | 2598.31  | 5412.79 | 3637.15 |
| 4/28/2021  | 3391.02               | 4104.35  | 5458.36 | 3564.95 |
| 5/5/2021   | 1573.41               | 6220.70  | 5708.59 | 4768.66 |
| 5/12/2021  | 2894.90               | 1150.94  | 3529.02 | 4660.71 |
| 5/19/2021  | 6079.52               | 4676.67  | 3774.41 | 3750.19 |
| 5/26/2021  | 3214.08               | 2145.23  | 3430.59 | 3659.58 |
| 6/2/2021   | 1675.51               | 8381.26  | 3087.48 | 4514.96 |
| 6/9/2021   | 6501.17               | 7909.25  | 4073.04 | 4852.67 |
| 6/16/2021  | 3855.99               | 2607.43  | 4265.25 | 5143.97 |
| 6/23/2021  | 6463.59               | 2651.43  | 4342.07 | 4738.92 |
| 6/30/2021  | 2349.33               | 2382.11  | 4169.12 | 4786.30 |
| 7/7/2021   | 4255.72               | 1453.29  | 4685.16 | 3400.70 |
| 7/14/2021  | 6936.31               | 3591.84  | 4772.19 | 2537.22 |
| 7/21/2021  | 6198.15               | 1724.32  | 5240.62 | 2360.60 |
| 7/28/2021  | 5066.98               | 1211.88  | 4961.30 | 2072.69 |
| 8/4/2021   | 4708.90               | 1143.14  | 5433.21 | 1824.89 |

|            |                       |          |         |         |
|------------|-----------------------|----------|---------|---------|
| 8/11/2021  | 3706.03               | 3286.68  | 5323.28 | 2191.57 |
| 8/18/2021  | 465.02                | 1571.16  | 4029.02 | 1787.43 |
| 8/25/2021  | 5620.35               | 1646.69  | 3913.46 | 1771.91 |
|            | BOD <sub>5</sub> Load | TSS Load | 3625.08 | 1911.92 |
| Date       | (lb/day)              | (lb/day) | 3263.80 | 2168.18 |
| 9/1/2021   | 3636.69               | 4502.15  | 3240.69 | 2573.33 |
| 9/8/2021   | 5821.47               | 1414.57  | 5026.17 | 2521.14 |
| 9/15/2021  | 3347.01               | 1710.23  | 4268.39 | 2542.32 |
| 9/22/2021  | 1371.44               | 905.20   | 3544.15 | 2133.04 |
| 9/29/2021  | 4378.21               | 1678.33  | 3710.96 | 2042.10 |
| 10/6/2021  | 1026.79               | 411.17   | 3188.99 | 1223.90 |
| 10/13/2021 | 2303.24               | 2234.17  | 2485.34 | 1387.82 |
| 10/20/2021 | 2146.33               | 1125.68  | 2245.20 | 1270.91 |
| 10/27/2021 | 2624.87               | 446.91   | 2495.89 | 1179.25 |
| 11/3/2021  | 2204.92               | 4270.48  | 2061.23 | 1697.68 |
| 11/10/2021 | 812.19                | 926.66   | 2018.31 | 1800.78 |
| 11/17/2021 | 3043.13               | 1642.76  | 2166.29 | 1682.50 |
| 11/24/2021 | 1798.26               | 1279.22  | 2096.67 | 1713.20 |
| 12/1/2021  | 5612.06               | 2307.05  | 2694.11 | 2085.23 |
| 12/8/2021  | 4494.75               | 1470.11  | 3152.08 | 1525.16 |
| 12/15/2021 | 8163.41               | 1418.02  | 4622.32 | 1623.43 |
| 12/22/2021 | 2730.11               | 7601.29  | 4559.72 | 2815.14 |
| 12/28/2021 | 3467.63               | 2239.81  | 4893.59 | 3007.26 |
| 1/5/2022   | 5582.79               | 1972.97  | 4887.74 | 2940.44 |
| 1/12/2022  | 5471.76               | 1936.83  | 5083.14 | 3033.78 |
| 1/19/2022  | 4757.85               | 11029.80 | 4402.03 | 4956.14 |
| 1/26/2022  | 1976.55               | 1224.90  | 4251.32 | 3680.86 |
| 2/2/2022   |                       |          | 4447.24 | 4041.13 |
| 2/9/2022   |                       |          | 4068.72 | 4730.51 |
| 2/16/2022  |                       |          | 3367.20 | 6127.35 |
| 2/23/2022  |                       |          | 1976.55 | 1224.90 |
| 3/2/2022   | 4103.26               | 2181.27  | 4103.26 | 2181.27 |
| 3/9/2022   | 1952.64               | 5666.00  | 3027.95 | 3923.64 |
| 3/16/2022  | 1997.25               | 1779.30  | 2684.39 | 3208.86 |
| 3/23/2022  | 547.66                | 449.01   | 2150.20 | 2518.90 |
| 3/30/2022  | 2385.62               | 1159.84  | 2197.29 | 2247.08 |
| 4/6/2022   | 719.05                | 2017.40  | 1520.44 | 2214.31 |
| 4/13/2022  | 625.38                | 419.90   | 1254.99 | 1165.09 |
| 4/20/2022  | 441.07                | 2701.44  | 943.76  | 1349.52 |
| 4/27/2022  | 5402.30               | 9014.35  | 1914.68 | 3062.58 |
| 5/4/2022   | 1338.33               | 10886.60 | 1705.23 | 5007.94 |
| 5/11/2022  | 2193.86               | 1826.45  | 2000.19 | 4969.75 |
| 5/18/2022  | 3060.33               | 2940.05  | 2487.18 | 5473.78 |
| 5/25/2022  | 4277.96               | 1435.96  | 3254.56 | 5220.68 |
| 6/1/2022   | 10163.90              | 6237.04  | 4206.88 | 4665.22 |
| 6/8/2022   | 6565.34               | 2790.73  | 5252.28 | 3046.05 |
| 6/15/2022  | 4885.44               | 3031.51  | 5790.59 | 3287.06 |

|            |                       |          |         |         |
|------------|-----------------------|----------|---------|---------|
| 6/22/2022  | 2377.34               | 2784.79  | 5654.00 | 3256.01 |
| 6/29/2022  | 1015.76               | 3516.92  | 5001.56 | 3672.20 |
|            | BOD <sub>5</sub> Load | TSS Load | 3710.97 | 3030.99 |
| Date       | (lb/day)              | (lb/day) | 2759.52 | 3111.07 |
| 7/6/2022   | 1630.69               | 8121.99  | 1674.60 | 4807.90 |
| 7/13/2022  | 2472.58               | 9710.27  | 1706.34 | 7116.39 |
| 7/20/2022  | 2604.30               | 3620.16  | 2235.86 | 7150.81 |
| 7/27/2022  | 2977.40               | 5787.59  | 2421.24 | 6810.00 |
| 8/3/2022   | 2164.75               | 1664.84  | 2369.94 | 5780.97 |
| 8/10/2022  | 3564.06               | 3519.60  | 2756.62 | 4860.49 |
| 8/17/2022  | 17876.82              | 14872.68 | 5837.47 | 5892.97 |
| 8/24/2022  | 2415.67               | 927.55   | 5799.74 | 5354.45 |
| 8/31/2022  | 2659.34               | 3518.50  | 5736.13 | 4900.63 |
| 9/7/2022   | 1895.29               | 1149.27  | 5682.24 | 4797.52 |
| 9/14/2022  | 4328.25               | 3424.92  | 5835.07 | 4778.59 |
| 9/21/2022  | 6322.60               | 4690.37  | 3524.23 | 2742.12 |
| 9/28/2022  | 3835.05               | 1297.54  | 3808.11 | 2816.12 |
| 10/5/2022  | 2865.02               | 2085.95  | 3849.24 | 2529.61 |
| 10/12/2022 | 3674.10               | 1411.54  | 4205.00 | 2582.06 |
| 10/19/2022 | 11766.63              | 3029.76  | 5692.68 | 2503.03 |
| 10/26/2022 | 682.02                | 1354.30  | 4564.56 | 1835.82 |
| 11/2/2022  | 5115.80               | 3999.96  | 4820.71 | 2376.30 |
| 11/9/2022  | 1673.78               | 1218.25  | 4582.47 | 2202.76 |
| 11/16/2022 | 10221.10              | 2806.41  | 5891.87 | 2481.74 |
| 11/23/2022 | 4256.56               | 2246.13  | 4389.85 | 2325.01 |
| 11/30/2022 | 4590.28               | 1667.35  | 5171.51 | 2387.62 |
| 12/7/2022  | 3488.69               | 3651.94  | 4846.08 | 2318.02 |
| 12/14/2022 | 1304.22               | 632.62   | 4772.17 | 2200.89 |
| 12/21/2022 | 2614.70               | 635.06   | 3250.89 | 1766.62 |
| 12/28/2022 | 2165.84               | 1420.65  | 2832.74 | 1601.52 |

|           |                       |          |         |         |
|-----------|-----------------------|----------|---------|---------|
|           | BOD <sub>5</sub> Load | TSS Load |         |         |
|           | (lb/day)              | (lb/day) |         |         |
| Averages: | 3915.22               | 3232.89  |         |         |
| Max:      | 17876.82              | 14872.68 | 6809.29 | 8918.76 |
| Minimum:  | 322.26                | 202.16   |         |         |

Crowder WWTP Flows and Loads

| Date       | Flow (Estimated)*<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|--------------------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 1/3/2020   | 0.87                     | 147.0                               | 20.8                   | 1068.43                           | 151.18               |
| 1/8/2020   | 0.87                     | 214.0                               | 80.0                   | 1555.41                           | 581.46               |
| 1/15/2020  | 0.99                     | 128.0                               | 46.4                   | 1051.68                           | 381.24               |
| 1/22/2020  | 0.61                     | 37.9                                | 17.6                   | 191.63                            | 88.99                |
| 1/29/2020  | 0.76                     | 98.7                                | 55.0                   | 623.81                            | 347.61               |
| 2/5/2020   | 0.00                     | 233.0                               | 29.7                   | 0.00                              | 0.00                 |
| 2/12/2020  | 0.00                     | 147.0                               | 56.8                   | 0.00                              | 0.00                 |
| 2/19/2020  | 0.00                     | 295.0                               | 87.3                   | 0.00                              | 0.00                 |
| 2/26/2020  | 0.00                     | 17.6                                | 25.5                   | 0.00                              | 0.00                 |
| 3/4/2020   | 0.91                     | 291.0                               | 104.0                  | 2207.02                           | 788.76               |
| 3/11/2020  | 0.80                     | 92.7                                | 35.3                   | 618.11                            | 235.37               |
| 3/18/2020  | 0.80                     | 73.6                                | 12.5                   | 488.43                            | 82.95                |
| 3/25/2020  | 0.87                     | 17.5                                | 13.3                   | 127.19                            | 96.67                |
| 4/1/2020   | 0.91                     | 27.3                                | 32.8                   | 207.05                            | 248.76               |
| 4/8/2020   | 1.06                     | 138.0                               | 108.0                  | 1221.07                           | 955.62               |
| 4/15/2020  | 0.80                     | 187.0                               | 264.0                  | 1240.97                           | 1751.96              |
| 4/22/2020  | 1.06                     | 243.0                               | 88.0                   | 2150.14                           | 778.65               |
| 4/29/2020  | 1.82                     | 147.0                               | 80.0                   | 2229.77                           | 1213.48              |
| 5/6/2020   | 1.14                     | 174.0                               | 108.0                  | 1649.58                           | 1023.88              |
| 5/13/2020  | 1.33                     | 101.0                               | 63.6                   | 1117.10                           | 703.44               |
| 5/20/2020  | 1.02                     | 217.0                               | 118.0                  | 1851.51                           | 1006.81              |
| 5/27/2020  | 1.86                     | 8.4                                 | 18.3                   | 130.07                            | 283.37               |
| 6/3/2020   | 1.40                     | 119.0                               | 54.0                   | 1391.40                           | 631.39               |
| 6/10/2020  | 1.21                     | 402.0                               | 199.0                  | 4065.16                           | 2012.36              |
| 6/17/2020  | 0.76                     | 215.0                               | 184.0                  | 1358.85                           | 1162.92              |
| 6/24/2020  | 0.68                     | 1200.0                              | 130.0                  | 6825.83                           | 739.47               |
| 6/30/2020  | 0.00                     | 1500.0                              | 250.0                  | 0.00                              | 0.00                 |
| 7/8/2020   | 0.72                     | 899.0                               | 420.0                  | 5397.78                           | 2521.77              |
| 7/15/2020  | 0.72                     | 320.0                               | 64.0                   | 1921.35                           | 384.27               |
| 7/22/2020  | 0.99                     | 854.0                               | 700.0                  | 7016.70                           | 5751.40              |
| 7/29/2020  | 0.72                     | 395.0                               | 101.0                  | 2371.66                           | 606.42               |
| 8/5/2020   | 0.68                     | 931.0                               | 107.0                  | 5295.71                           | 608.64               |
| 8/12/2020  | 0.68                     | 306.0                               | 55.0                   | 1740.59                           | 312.85               |
| 8/19/2020  | 0.57                     | 1690.0                              | 90.0                   | 8010.88                           | 426.61               |
| 8/26/2020  | 0.68                     | 340.0                               | 67.6                   | 1933.99                           | 384.52               |
| 9/2/2020   | 0.64                     | 378.0                               | 77.6                   | 2030.69                           | 416.88               |
| 9/9/2020   | 0.61                     | 178.0                               | 103.0                  | 900.00                            | 520.79               |
| 9/16/2020  | 0.57                     | 166.0                               | 45.0                   | 786.87                            | 213.31               |
| 9/23/2020  | 0.57                     | 473.0                               | 992.0                  | 2242.10                           | 4702.24              |
| 9/30/2020  | 0.61                     | 195.0                               | 102.0                  | 985.95                            | 515.73               |
| 10/7/2020  | 0.61                     | 160.0                               | 82.0                   | 808.99                            | 414.61               |
| 10/14/2020 | 0.64                     | 735.0                               | 545.0                  | 3948.56                           | 2927.84              |
| 10/21/2020 | 0.64                     | 577.0                               | 114.0                  | 3099.75                           | 612.43               |



| Date       | Flow (Estimated)*<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|--------------------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 10/28/2020 | 1.33                     | 75.2                                | 76.5                   | 831.74                            | 846.12               |
| 11/4/2020  | 0.87                     | 228.0                               | 48.5                   | 1657.16                           | 352.51               |
| 11/11/2020 | 1.14                     | 1400.0                              | 752.0                  | 13272.46                          | 7129.20              |
| 11/18/2020 | 0.87                     | 337.0                               | 153.0                  | 2449.40                           | 1112.04              |
| 11/25/2020 | 1.59                     | 111.0                               | 157.0                  | 1473.24                           | 2083.78              |
| 12/2/2020  | 1.21                     | 209.0                               | 77.0                   | 2113.48                           | 778.65               |
| 12/9/2020  | 0.83                     | 508.0                               | 126.0                  | 3531.74                           | 875.98               |
| 12/16/2020 | 1.02                     | 180.0                               | 67.2                   | 1535.81                           | 573.37               |
| 12/23/2020 | 0.76                     | 834.0                               | 118.0                  | 5271.06                           | 745.79               |
| 12/30/2020 | 1.21                     | 502.0                               | 673.0                  | 5076.40                           | 6805.61              |
| 1/6/2021   | 1.52                     | 19.6                                | 171.0                  | 247.75                            | 2161.51              |
| 1/13/2021  | 1.02                     | 60.9                                | 25.2                   | 519.62                            | 215.01               |
| 1/20/2021  | 1.14                     | 506.0                               | 360.0                  | 4797.04                           | 3412.92              |
| 1/27/2021  | 1.14                     | 84.2                                | 101.0                  | 798.24                            | 957.51               |
| 2/3/2021   | 0.91                     | 326.0                               | 82.0                   | 2472.47                           | 621.91               |
| 2/10/2021  | 0.76                     | 668.0                               | 326.0                  | 4221.90                           | 2060.39              |
| 2/17/2021  | 0.80                     | 886.0                               | 1110.0                 | 5879.70                           | 7366.21              |
| 2/25/2021  | 0.76                     | 477.0                               | 1140.0                 | 3014.74                           | 7205.05              |
| 3/3/2021   | 0.61                     | 1130.0                              | 1310.0                 | 5713.48                           | 6623.59              |
| 3/10/2021  | 0.61                     | 249.0                               | 103.0                  | 1258.99                           | 520.79               |
| 3/17/2021  | 1.63                     | 198.0                               | 40.0                   | 2690.52                           | 543.54               |
| 3/24/2021  | 0.64                     | 126.0                               | 110.0                  | 676.90                            | 590.94               |
| 3/31/2021  | 1.06                     | 315.0                               | 478.0                  | 2787.22                           | 4229.49              |
| 4/1/2021   | 0.91                     |                                     |                        |                                   |                      |
| 4/7/2021   | 0.99                     | 1670.0                              | 139.0                  | 13721.19                          | 1142.06              |
| 4/14/2021  | 0.91                     | 444.0                               | 280.0                  | 3367.41                           | 2123.59              |
| 4/21/2021  | 0.76                     | 666.0                               | 134.0                  | 4209.26                           | 846.91               |
| 4/28/2021  | 1.02                     | 228.0                               | 101.0                  | 1945.36                           | 861.76               |
| 5/5/2021   | 1.25                     | 33.7                                | 29.1                   | 351.44                            | 303.47               |
| 5/12/2021  | 0.91                     | 340.0                               | 109.0                  | 2578.65                           | 826.68               |
| 5/19/2021  | 0.87                     | 790.0                               | 142.0                  | 5741.92                           | 1032.09              |
| 5/26/2021  | 0.76                     | 394.0                               | 137.0                  | 2490.17                           | 865.87               |
| 6/2/2021   | 1.78                     | 69.0                                | 65.5                   | 1024.82                           | 972.84               |
| 6/9/2021   | 1.36                     | 539.0                               | 302.0                  | 6131.87                           | 3435.67              |
| 6/16/2021  | 0.76                     | 537.0                               | 146.0                  | 3393.96                           | 922.75               |
| 6/23/2021  | 0.72                     | 972.0                               | 179.0                  | 5836.09                           | 1074.75              |
| 6/30/2021  | 1.55                     | 123.0                               | 106.0                  | 1593.64                           | 1373.38              |
| 7/7/2021   | 1.21                     | 310.0                               | 78.0                   | 3134.83                           | 788.76               |
| 7/14/2021  | 0.95                     | 755.0                               | 229.0                  | 5964.70                           | 1809.16              |
| 7/21/2021  | 0.80                     | 792.0                               | 116.0                  | 5255.89                           | 769.80               |
| 7/28/2021  | 0.80                     | 706.0                               | 133.0                  | 4685.18                           | 882.62               |
| 8/4/2021   | 0.64                     | 819.0                               | 103.0                  | 4399.82                           | 553.33               |
| 8/11/2021  | 0.57                     | 747.0                               | 620.0                  | 3540.90                           | 2938.90              |
| 8/18/2021  | 0.61                     | 15.7                                | 126.0                  | 79.38                             | 637.08               |
| 8/25/2021  | 0.53                     | 1230.0                              | 264.0                  | 5441.71                           | 1167.98              |

| Date       | Flow (Estimated)*<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|--------------------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 9/1/2021   | 0.53                     | 746.0                               | 816.0                  | 3300.42                           | 3610.11              |
| 9/8/2021   | 0.64                     | 1010.0                              | 172.0                  | 5425.91                           | 924.02               |
| 9/15/2021  | 0.64                     | 504.0                               | 160.0                  | 2707.58                           | 859.55               |
| 9/22/2021  | 0.57                     | 250.0                               | 130.0                  | 1185.04                           | 616.22               |
| 9/29/2021  | 0.61                     | 749.0                               | 134.0                  | 3787.07                           | 677.53               |
| 10/6/2021  | 0.42                     | 198.0                               | 56.0                   | 688.27                            | 194.66               |
| 10/13/2021 | 0.95                     | 177.0                               | 87.5                   | 1398.35                           | 691.27               |
| 10/20/2021 | 0.72                     | 230.0                               | 93.0                   | 1380.97                           | 558.39               |
| 10/27/2021 | 0.76                     | 343.0                               | 17.4                   | 2167.83                           | 109.97               |
| 11/3/2021  | 1.25                     | 170.0                               | 343.0                  | 1772.82                           | 3576.93              |
| 11/10/2021 | 0.76                     | 87.6                                | 78.0                   | 553.65                            | 492.98               |
| 11/17/2021 | 0.68                     | 483.0                               | 193.0                  | 2747.40                           | 1097.82              |
| 11/24/2021 | 0.76                     | 175.0                               | 81.0                   | 1106.04                           | 511.94               |
| 12/1/2021  | 0.68                     | 809.0                               | 110.0                  | 4601.75                           | 625.70               |
| 12/8/2021  | 0.61                     | 847.0                               | 229.0                  | 4282.58                           | 1157.86              |
| 12/15/2021 | 0.72                     | 1310.0                              | 195.0                  | 7865.51                           | 1170.82              |
| 12/22/2021 | 0.45                     | 612.0                               | 1540.0                 | 2320.78                           | 5839.88              |
| 12/28/2021 | 0.76                     | 503.0                               | 219.0                  | 3179.07                           | 1384.13              |
| 1/5/2022   | 1.02                     | 582.0                               | 94.0                   | 4965.79                           | 802.04               |
| 1/12/2022  | 0.87                     | 647.0                               | 210.0                  | 4702.56                           | 1526.33              |
| 1/19/2022  | 0.87                     | 406.0                               | 66.0                   | 2950.91                           | 479.70               |
| 1/26/2022  | 0.80                     | 206.0                               | 93.0                   | 1367.06                           | 617.17               |
| 2/2/2022   | 0.00                     | 328.0                               | 85.5                   | 0.00                              | 0.00                 |
| 2/9/2022   | 0.00                     | 105.0                               | 79.0                   | 0.00                              | 0.00                 |
| 2/16/2022  | 0.00                     | 1790.0                              | 162.0                  | 0.00                              | 0.00                 |
| 2/23/2022  | 0.00                     | 491.0                               | 99.0                   | 0.00                              | 0.00                 |
| 3/2/2022   | 0.80                     | 546.0                               | 216.0                  | 3623.38                           | 1433.43              |
| 3/9/2022   | 0.91                     | 244.0                               | 703.0                  | 1850.56                           | 5331.74              |
| 3/16/2022  | 0.91                     | 181.0                               | 84.7                   | 1372.75                           | 642.39               |
| 3/23/2022  | 0.72                     | 44.5                                | 22.0                   | 267.19                            | 132.09               |
| 3/30/2022  | 1.10                     | 150.0                               | 52.4                   | 1374.65                           | 480.21               |
| 4/6/2022   | 1.29                     | 2.0                                 | 50.0                   | 21.49                             | 537.22               |
| 4/13/2022  | 1.21                     | 21.2                                | 27.8                   | 214.38                            | 281.12               |
| 4/20/2022  | 1.33                     | 34.6                                | 159.0                  | 382.69                            | 1758.60              |
| 4/27/2022  | 1.21                     | 473.0                               | 580.0                  | 4783.14                           | 5865.16              |
| 5/4/2022   | 2.08                     | 32.4                                | 82.7                   | 563.13                            | 1437.38              |
| 5/11/2022  | 1.67                     | 124.0                               | 34.5                   | 1724.16                           | 479.70               |
| 5/18/2022  | 1.55                     | 166.0                               | 72.0                   | 2150.77                           | 932.86               |
| 5/25/2022  | 1.52                     | 297.0                               | 78.5                   | 3754.21                           | 992.27               |
| 6/1/2022   | 1.44                     | 469.0                               | 237.0                  | 5631.95                           | 2845.99              |
| 6/8/2022   | 1.17                     | 643.0                               | 145.0                  | 6299.04                           | 1420.47              |
| 6/15/2022  | 1.02                     | 21.0                                | 38.6                   | 179.18                            | 329.35               |
| 6/22/2022  | 0.95                     | 274.0                               | 144.0                  | 2164.67                           | 1137.64              |
| 6/29/2022  | 1.02                     | 72.6                                | 181.0                  | 619.44                            | 1544.35              |

|            | Flow (Estimated)* | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
|------------|-------------------|---------------------------|--------------|-----------------------|----------|
| Date       | MGD               | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
| 7/6/2022   | 0.80              | 213.0                     | 126.0        | 1413.52               | 836.16   |
| 7/13/2022  | 0.76              | 297.0                     | 486.0        | 1877.10               | 3071.63  |
| 7/20/2022  | 0.95              | 251.0                     | 212.0        | 1982.97               | 1674.86  |
| 7/27/2022  | 0.76              | 384.0                     | 314.0        | 2426.96               | 1984.55  |
| 8/3/2022   | 0.80              | 256.0                     | 62.7         | 1698.87               | 416.09   |
| 8/10/2022  | 0.61              | 522.0                     | 258.0        | 2639.32               | 1304.49  |
| 8/17/2022  | 1.21              | 1610.0                    | 679.0        | 16280.88              | 6866.28  |
| 8/24/2022  | 0.53              | 503.0                     | 96.7         | 2225.35               | 427.82   |
| 8/31/2022  | 0.91              | 201.0                     | 271.0        | 1524.44               | 2055.33  |
| 9/7/2022   | 0.76              | 269.0                     | 109.0        | 1700.14               | 688.90   |
| 9/14/2022  | 0.64              | 698.0                     | 490.0        | 3749.78               | 2632.37  |
| 9/21/2022  | 0.61              | 976.0                     | 223.0        | 4934.83               | 1127.53  |
| 9/28/2022  | 0.53              | 756.0                     | 212.0        | 3344.66               | 937.92   |
| 10/5/2022  | 0.57              | 350.0                     | 126.0        | 1659.06               | 597.26   |
| 10/12/2022 | 0.61              | 700.0                     | 238.0        | 3539.32               | 1203.37  |
| 10/19/2022 | 0.53              | 2420.0                    | 508.0        | 10706.45              | 2247.47  |
| 10/26/2022 | 0.68              | 75.3                      | 170.0        | 428.32                | 966.99   |
| 11/2/2022  | 0.72              | 766.0                     | 544.0        | 4599.22               | 3266.29  |
| 11/9/2022  | 0.68              | 242.0                     | 26.0         | 1376.54               | 147.89   |
| 11/16/2022 | 0.76              | 1490.0                    | 211.0        | 9417.12               | 1333.57  |
| 11/23/2022 | 0.61              | 764.0                     | 307.0        | 3862.92               | 1552.25  |
| 11/30/2022 | 0.76              | 645.0                     | 201.0        | 4076.54               | 1270.36  |
| 12/7/2022  | 0.61              | 273.0                     | 83.6         | 1380.34               | 422.70   |
| 12/14/2022 | 0.57              | 244.0                     | 120.0        | 1156.60               | 568.82   |
| 12/21/2022 | 0.80              | 356.0                     | 82.5         | 2362.50               | 547.49   |
| 12/28/2022 | 1.17              | 191.0                     | 102.0        | 1871.10               | 999.23   |
|            | MGD               | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
|            | Flow              | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
| Averages:  | 0.85              | 443.9                     | 202.5        | 2756.1                | 1362.9   |
| Max:       | 2.08              | 2420.0                    | 1540.0       | 16280.9               | 7366.2   |
| Minimum:   | 0.00              | 2.0                       | 12.5         | 0.0                   | 0.0      |

\*Based on Shoal Creek Daily Flow to Average Flow Ratio Relative to Crowder Average Flow

Shoal Creek WWTP Flows and Loads

| Date       | Flow<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|-------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 1/3/2020   | 2.3         | 630.0                               | 52.2                   | 12084.66                          | 1001.30              |
| 1/8/2020   | 2.3         | 171.0                               | 78.7                   | 3280.12                           | 1509.62              |
| 1/15/2020  | 2.6         | 282.0                               | 61.3                   | 6114.89                           | 1329.23              |
| 1/22/2020  | 1.6         | 44.2                                | 113.0                  | 589.80                            | 1507.87              |
| 1/29/2020  | 2.0         | 78.0                                | 82.4                   | 1301.04                           | 1374.43              |
| 2/5/2020   |             |                                     |                        |                                   |                      |
| 2/12/2020  |             |                                     |                        |                                   |                      |
| 2/19/2020  |             |                                     |                        |                                   |                      |
| 2/26/202   |             |                                     |                        |                                   |                      |
| 3/4/2020   | 2.4         | 119.0                               | 174.0                  | 2381.90                           | 3482.78              |
| 3/11/2020  | 2.1         | 478.0                               | 350.0                  | 8411.56                           | 6159.09              |
| 3/18/2020  | 2.1         | 97.3                                | 252.0                  | 1704.11                           | 4413.53              |
| 3/25/2020  | 2.3         | 141.0                               | 260.0                  | 2704.66                           | 4987.32              |
| 4/1/2020   | 2.4         | 66.2                                | 32.3                   | 1325.06                           | 646.52               |
| 4/8/2020   | 2.8         | 289.0                               | 566.0                  | 6748.73                           | 13217.23             |
| 4/15/2020  | 2.1         | 37.2                                | 112.0                  | 651.52                            | 1961.57              |
| 4/22/2020  | 2.8         | 74.0                                | 130.0                  | 1728.05                           | 3035.76              |
| 4/29/2020  | 4.8         | 123.0                               | 179.0                  | 4923.94                           | 7165.73              |
| 5/6/2020   | 3.0         | 24.6                                | 78.7                   | 615.49                            | 1969.07              |
| 5/13/2020  | 3.5         | 60.9                                | 184.0                  | 1777.67                           | 5370.96              |
| 5/20/2020  | 2.7         | 13.2                                | 26.7                   | 297.24                            | 601.23               |
| 5/27/2020  | 4.9         | 9.8                                 | 25.0                   | 400.49                            | 1021.65              |
| 6/3/2020   | 3.7         | 34.0                                | 175.0                  | 1049.17                           | 5400.15              |
| 6/10/2020  | 3.2         | 22.6                                | 99.0                   | 603.15                            | 2642.11              |
| 6/17/2020  | 2.0         | 12.4                                | 18.0                   | 206.83                            | 300.24               |
| 6/24/2020  | 1.8         | 27.2                                | 169.0                  | 408.33                            | 2537.03              |
| 6/30/2020  |             |                                     |                        |                                   |                      |
| 7/8/2020   | 1.9         | 192.0                               | 188.0                  | 3042.43                           | 2979.05              |
| 7/15/2020  | 1.9         | 25.6                                | 43.0                   | 405.66                            | 681.38               |
| 7/22/2020  | 2.6         | 34.4                                | 31.2                   | 745.93                            | 676.54               |
| 7/29/2020  | 1.9         | 134.0                               | 171.0                  | 2123.36                           | 2709.67              |
| 8/5/2020   | 1.8         | 27.4                                | 43.2                   | 411.33                            | 648.52               |
| 8/12/2020  | 1.8         | 24.4                                | 47.6                   | 366.29                            | 714.57               |
| 8/19/2020  | 1.5         | 40.2                                | 39.0                   | 502.90                            | 487.89               |
| 8/26/2020  | 1.8         | 42.9                                | 70.4                   | 644.01                            | 1056.84              |
| 9/2/2020   | 1.7         | 11.8                                | 29.2                   | 167.30                            | 414.00               |
| 9/9/2020   | 1.6         | 71.4                                | 62.5                   | 952.76                            | 834.00               |
| 9/16/2020  | 1.5         | 35.7                                | 25.8                   | 446.61                            | 322.76               |
| 9/23/2020  | 1.5         | 53.9                                | 74.5                   | 674.29                            | 932.00               |
| 9/30/2020  | 1.6         | 27.2                                | 22.2                   | 362.96                            | 296.24               |
| 10/7/2020  | 1.6         | 38.2                                | 117.0                  | 509.74                            | 1561.25              |
| 10/14/2020 | 1.7         | 35.4                                | 77.5                   | 501.90                            | 1098.80              |
| 10/21/2020 | 1.7         | 14.8                                | 52.8                   | 209.83                            | 748.60               |

| Date       | Flow<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|-------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 10/28/2020 | 3.5         | 23.2                                | 70.5                   | 677.21                            | 2057.90              |
| 11/4/2020  | 2.3         | 27.2                                | 31.8                   | 521.75                            | 609.99               |
| 11/11/2020 | 3           | 38.1                                | 98.0                   | 953.26                            | 2451.96              |
| 11/18/2020 | 2.3         | 60.2                                | 76.0                   | 1154.76                           | 1457.83              |
| 11/25/2020 | 4.2         | 26.4                                | 60.7                   | 924.74                            | 2126.20              |
| 12/2/2020  | 3.2         | 61.6                                | 32.5                   | 1643.98                           | 867.36               |
| 12/9/2020  | 2.2         | 59.1                                | 91.0                   | 1084.37                           | 1669.67              |
| 12/16/2020 | 2.7         | 112.0                               | 150.0                  | 2522.02                           | 3377.70              |
| 12/23/2020 | 2           | 40.2                                | 52.2                   | 670.54                            | 870.70               |
| 12/30/2020 | 3.2         | 37.0                                | 44.0                   | 987.46                            | 1174.27              |
| 1/6/2021   | 4           | 48.5                                | 24.8                   | 1617.96                           | 827.33               |
| 1/13/2021  | 2.7         | 71.0                                | 120.0                  | 1598.78                           | 2702.16              |
| 1/20/2021  | 3           | 66.4                                | 92.0                   | 1661.33                           | 2301.84              |
| 1/27/2021  | 3           | 13.0                                | 32.0                   | 325.26                            | 800.64               |
| 2/3/2021   | 2.4         | 28.8                                | 38.9                   | 576.46                            | 778.62               |
| 2/10/2021  | 2           | 37.8                                | 73.6                   | 630.50                            | 1227.65              |
| 2/17/2021  | 2.1         | 33.1                                | 40.3                   | 579.71                            | 705.81               |
| 2/25/2021  | 2           | 29.8                                | 57.2                   | 497.06                            | 954.10               |
| 3/3/2021   | 1.6         | 46.7                                | 172.0                  | 623.16                            | 2295.17              |
| 3/10/2021  | 1.6         | 24.1                                | 36.0                   | 321.59                            | 480.38               |
| 3/17/2021  | 4.3         | 25.3                                | 77.0                   | 907.31                            | 2761.37              |
| 3/24/2021  | 1.7         | 24.6                                | 9.1                    | 348.78                            | 129.02               |
| 3/31/2021  | 2.8         | 16.1                                | 10.1                   | 375.97                            | 235.86               |
| 4/1/2021   | 2.4         | 16.1                                | 10.1                   | 322.26                            | 202.16               |
| 4/7/2021   | 2.6         | 3.3                                 | 25.3                   | 71.56                             | 548.61               |
| 4/14/2021  | 2.4         | 74.2                                | 355.0                  | 1485.19                           | 7105.68              |
| 4/21/2021  | 2           | 43.4                                | 105.0                  | 723.91                            | 1751.40              |
| 4/28/2021  | 2.7         | 64.2                                | 144.0                  | 1445.66                           | 3242.59              |
| 5/5/2021   | 3.3         | 44.4                                | 215.0                  | 1221.98                           | 5917.23              |
| 5/12/2021  | 2.4         | 15.8                                | 16.2                   | 316.25                            | 324.26               |
| 5/19/2021  | 2.3         | 17.6                                | 190.0                  | 337.60                            | 3644.58              |
| 5/26/2021  | 2           | 43.4                                | 76.7                   | 723.91                            | 1279.36              |
| 6/2/2021   | 4.7         | 16.6                                | 189.0                  | 650.69                            | 7408.42              |
| 6/9/2021   | 3.6         | 12.3                                | 149.0                  | 369.30                            | 4473.58              |
| 6/16/2021  | 2           | 27.7                                | 101.0                  | 462.04                            | 1684.68              |
| 6/23/2021  | 1.9         | 39.6                                | 99.5                   | 627.50                            | 1576.68              |
| 6/30/2021  | 4.1         | 22.1                                | 29.5                   | 755.69                            | 1008.72              |
| 7/7/2021   | 3.2         | 42.0                                | 24.9                   | 1120.90                           | 664.53               |
| 7/14/2021  | 2.5         | 46.6                                | 85.5                   | 971.61                            | 1782.68              |
| 7/21/2021  | 2.1         | 53.8                                | 54.5                   | 942.25                            | 954.51               |
| 7/28/2021  | 2.1         | 21.8                                | 18.8                   | 381.81                            | 329.26               |
| 8/4/2021   | 1.7         | 21.8                                | 41.6                   | 309.08                            | 589.80               |
| 8/11/2021  | 1.5         | 13.2                                | 27.8                   | 165.13                            | 347.78               |
| 8/18/2021  | 1.6         | 28.9                                | 70.0                   | 385.64                            | 934.08               |
| 8/25/2021  | 1.4         | 15.3                                | 41.0                   | 178.64                            | 478.72               |

| Date       | Flow<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|-------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 9/1/2021   | 1.4         | 28.8                                | 76.4                   | 336.27                            | 892.05               |
| 9/8/2021   | 1.7         | 27.9                                | 34.6                   | 395.57                            | 490.56               |
| 9/15/2021  | 1.7         | 45.1                                | 60.0                   | 639.43                            | 850.68               |
| 9/22/2021  | 1.5         | 14.9                                | 23.1                   | 186.40                            | 288.98               |
| 9/29/2021  | 1.6         | 44.3                                | 75.0                   | 591.14                            | 1000.80              |
| 10/6/2021  | 1.1         | 36.9                                | 23.6                   | 338.52                            | 216.51               |
| 10/13/2021 | 2.5         | 43.4                                | 74.0                   | 904.89                            | 1542.90              |
| 10/20/2021 | 1.9         | 48.3                                | 35.8                   | 765.36                            | 567.29               |
| 10/27/2021 | 2           | 27.4                                | 20.2                   | 457.03                            | 336.94               |
| 11/3/2021  | 3.3         | 15.7                                | 25.2                   | 432.10                            | 693.55               |
| 11/10/2021 | 2           | 15.5                                | 26.0                   | 258.54                            | 433.68               |
| 11/17/2021 | 1.8         | 19.7                                | 36.3                   | 295.74                            | 544.94               |
| 11/24/2021 | 2           | 41.5                                | 46.0                   | 692.22                            | 767.28               |
| 12/1/2021  | 1.8         | 67.3                                | 112.0                  | 1010.31                           | 1681.34              |
| 12/8/2021  | 1.6         | 15.9                                | 23.4                   | 212.17                            | 312.25               |
| 12/15/2021 | 1.9         | 18.8                                | 15.6                   | 297.90                            | 247.20               |
| 12/22/2021 | 1.2         | 40.9                                | 176.0                  | 409.33                            | 1761.41              |
| 12/28/2021 | 2           | 17.3                                | 51.3                   | 288.56                            | 855.68               |
| 1/5/2022   | 2.7         | 27.4                                | 52.0                   | 616.99                            | 1170.94              |
| 1/12/2022  | 2.3         | 40.1                                | 21.4                   | 769.20                            | 410.49               |
| 1/19/2022  | 2.3         | 94.2                                | 550.0                  | 1806.94                           | 10550.10             |
| 1/26/2022  | 2.1         | 34.8                                | 34.7                   | 609.49                            | 607.74               |
| 2/2/2022   |             |                                     |                        |                                   |                      |
| 2/9/2022   |             |                                     |                        |                                   |                      |
| 2/16/2022  |             |                                     |                        |                                   |                      |
| 2/23/2022  |             |                                     |                        |                                   |                      |
| 3/2/2022   | 2.1         | 27.4                                | 42.7                   | 479.88                            | 747.85               |
| 3/9/2022   | 2.4         | 5.1                                 | 16.7                   | 102.08                            | 334.27               |
| 3/16/2022  | 2.4         | 31.2                                | 56.8                   | 624.50                            | 1136.91              |
| 3/23/2022  | 1.9         | 17.7                                | 20.0                   | 280.47                            | 316.92               |
| 3/30/2022  | 2.9         | 41.8                                | 28.1                   | 1010.97                           | 679.63               |
| 4/6/2022   | 3.4         | 24.6                                | 52.2                   | 697.56                            | 1480.18              |
| 4/13/2022  | 3.2         | 15.4                                | 5.2                    | 411.00                            | 138.78               |
| 4/20/2022  | 3.5         | 2.0                                 | 32.3                   | 58.38                             | 942.84               |
| 4/27/2022  | 3.2         | 23.2                                | 118.0                  | 619.16                            | 3149.18              |
| 5/4/2022   | 5.5         | 16.9                                | 206.0                  | 775.20                            | 9449.22              |
| 5/11/2022  | 4.4         | 12.8                                | 36.7                   | 469.71                            | 1346.74              |
| 5/18/2022  | 4.1         | 26.6                                | 58.7                   | 909.56                            | 2007.19              |
| 5/25/2022  | 4           | 15.7                                | 13.3                   | 523.75                            | 443.69               |
| 6/1/2022   | 3.8         | 143.0                               | 107.0                  | 4531.96                           | 3391.04              |
| 6/8/2022   | 3.1         | 10.3                                | 53.0                   | 266.30                            | 1370.26              |
| 6/15/2022  | 2.7         | 209.0                               | 120.0                  | 4706.26                           | 2702.16              |
| 6/22/2022  | 2.5         | 10.2                                | 79.0                   | 212.67                            | 1647.15              |
| 6/29/2022  | 2.7         | 17.6                                | 87.6                   | 396.32                            | 1972.58              |



|            | Flow | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
|------------|------|---------------------------|--------------|-----------------------|----------|
| Date       | MGD  | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
| 7/6/2022   | 2.1  | 12.4                      | 416.0        | 217.17                | 7285.82  |
| 7/13/2022  | 2    | 35.7                      | 398.0        | 595.48                | 6638.64  |
| 7/20/2022  | 2.5  | 29.8                      | 93.3         | 621.33                | 1945.31  |
| 7/27/2022  | 2    | 33.0                      | 228.0        | 550.44                | 3803.04  |
| 8/3/2022   | 2.1  | 26.6                      | 71.3         | 465.87                | 1248.75  |
| 8/10/2022  | 1.6  | 69.3                      | 166.0        | 924.74                | 2215.10  |
| 8/17/2022  | 3.2  | 59.8                      | 300.0        | 1595.94               | 8006.40  |
| 8/24/2022  | 1.4  | 16.3                      | 42.8         | 190.32                | 499.73   |
| 8/31/2022  | 2.4  | 56.7                      | 73.1         | 1134.91               | 1463.17  |
| 9/7/2022   | 2    | 11.7                      | 27.6         | 195.16                | 460.37   |
| 9/14/2022  | 1.7  | 40.8                      | 55.9         | 578.46                | 792.55   |
| 9/21/2022  | 1.6  | 104.0                     | 267.0        | 1387.78               | 3562.85  |
| 9/28/2022  | 1.4  | 42.0                      | 30.8         | 490.39                | 359.62   |
| 10/5/2022  | 1.5  | 96.4                      | 119.0        | 1205.96               | 1488.69  |
| 10/12/2022 | 1.6  | 10.1                      | 15.6         | 134.77                | 208.17   |
| 10/19/2022 | 1.4  | 90.8                      | 67.0         | 1060.18               | 782.29   |
| 10/26/2022 | 1.8  | 16.9                      | 25.8         | 253.70                | 387.31   |
| 11/2/2022  | 1.9  | 32.6                      | 46.3         | 516.58                | 733.67   |
| 11/9/2022  | 1.8  | 19.8                      | 71.3         | 297.24                | 1070.36  |
| 11/16/2022 | 2    | 48.2                      | 88.3         | 803.98                | 1472.84  |
| 11/23/2022 | 1.6  | 29.5                      | 52.0         | 393.65                | 693.89   |
| 11/30/2022 | 2    | 30.8                      | 23.8         | 513.74                | 396.98   |
| 12/7/2022  | 1.6  | 158.0                     | 242.0        | 2108.35               | 3229.25  |
| 12/14/2022 | 1.5  | 11.8                      | 5.1          | 147.62                | 63.80    |
| 12/21/2022 | 2.1  | 14.4                      | 5.0          | 252.20                | 87.57    |
| 12/28/2022 | 3.1  | 11.4                      | 16.3         | 294.74                | 421.42   |

|           | Flow | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
|-----------|------|---------------------------|--------------|-----------------------|----------|
|           | MGD  | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
| Averages: | 2.4  | 52.4                      | 90.9         | 1026.0                | 1850.4   |
| Max:      | 5.5  | 630.0                     | 566.0        | 12084.7               | 13217.2  |
| Minimum:  | 1.1  | 2.0                       | 5.0          | 58.4                  | 63.8     |

## **Appendix C – Population Projection Calculations**

**POPULATION PROJECTION  
CITY OF NEOSHO, MISSOURI**

| Year | Population | Increase/Decrease | Percent Change |
|------|------------|-------------------|----------------|
| 1960 | 7,452      | N/A               | N/A            |
| 1970 | 7,517      | 65                | 0.9            |
| 1980 | 9,493      | 1976              | 26.3           |
| 1990 | 9,254      | (239)             | (2.5)          |
| 2000 | 10,505     | 1251              | 13.5           |
| 2010 | 11,835     | 1330              | 12.7           |
| 2020 | 12,590     | 755               | 6.4            |

| Arithmetic Projection                    |        |                                            |
|------------------------------------------|--------|--------------------------------------------|
| Ka1                                      | 6.5    | $Ka1 = (P1970 - P1960) / 10 \text{ years}$ |
| Ka2                                      | 197.6  | $Ka2 = (P1980 - P1970) / 10 \text{ years}$ |
| Ka3                                      | (23.9) | $Ka3 = (P1990 - P1980) / 10 \text{ years}$ |
| Ka4                                      | 125.1  | $Ka4 = (P2000 - P1990) / 10 \text{ years}$ |
| Ka5                                      | 133.0  | $Ka5 = (P2010 - P2000) / 10 \text{ years}$ |
| Ka6                                      | 75.5   | $Ka6 = (P2020 - P2010) / 10 \text{ years}$ |
| Avg. Ka                                  | 85.6   |                                            |
| $P2043 = P2020 + (Avg. Ka)(2043 - 2020)$ |        |                                            |
| Projected 2043 Population                |        | 14,560                                     |

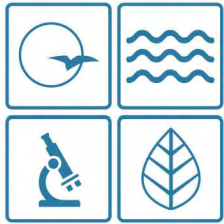
| Geometric Projection                             |           |                                                    |
|--------------------------------------------------|-----------|----------------------------------------------------|
| Kg1                                              | 0.00087   | $Kg1 = (\ln P1970 - \ln P1960) / 10 \text{ years}$ |
| Kg2                                              | 0.02334   | $Kg2 = (\ln P1980 - \ln P1970) / 10 \text{ years}$ |
| Kg3                                              | (0.00255) | $Kg3 = (\ln P1990 - \ln P1980) / 10 \text{ years}$ |
| Kg4                                              | 0.01268   | $Kg4 = (\ln P2000 - \ln P1990) / 10 \text{ years}$ |
| Kg5                                              | 0.01192   | $Kg5 = (\ln P2010 - \ln P2000) / 10 \text{ years}$ |
| Kg6                                              | 0.00618   | $Kg6 = (\ln P2020 - \ln P2010) / 10 \text{ years}$ |
| Avg. Ka                                          | 0.00874   |                                                    |
| $\ln P2043 = \ln P2020 + (Avg. Kg)(2043 - 2020)$ |           |                                                    |
| Projected 2043 Population                        |           | 15,393                                             |

| Average Annual Percent Increase Projection                     |                                    |
|----------------------------------------------------------------|------------------------------------|
| 0.09                                                           | Average Percent Change 1960 - 1970 |
| 2.63                                                           | Average Percent Change 1970 - 1980 |
| (0.25)                                                         | Average Percent Change 1980 - 1990 |
| 1.35                                                           | Average Percent Change 1990 - 2000 |
| 1.27                                                           | Average Percent Change 2000 - 2010 |
| 0.64                                                           | Average Percent Change 2010 - 2020 |
| 0.95                                                           | Average Annual % Change            |
| $P2043 = P2020(1 + Avg. Annual \% Change/100)^{(2043 - 2020)}$ |                                    |
| Projected 2043 Population                                      | 15,660                             |

| Average Decade Percent Increase Projection                           |                                    |
|----------------------------------------------------------------------|------------------------------------|
| 0.87                                                                 | Average Percent Change 1960 - 1970 |
| 26.29                                                                | Average Percent Change 1970 - 1980 |
| (2.52)                                                               | Average Percent Change 1980 - 1990 |
| 13.52                                                                | Average Percent Change 1990 - 2000 |
| 12.66                                                                | Average Percent Change 2000 - 2010 |
| 6.38                                                                 | Average Percent Change 2010 - 2020 |
| 9.53                                                                 | Average Annual % Change            |
| $P2043 = P2020(1 + Avg. Decennial \% Change/100)^{(2043 - 2020)/10}$ |                                    |
| Projected 2043 Population                                            | 15,523                             |

| Composite Projection for 2043              |        |
|--------------------------------------------|--------|
| Arithmetic Projection                      | 14,560 |
| Geometric Projection                       | 15,393 |
| Average Percent Increase Projection        | 15,660 |
| Average Decade Percent Increase Projection | 15,523 |
| Average Projected Year 2043 Population     | 15,284 |

## **Appendix D – MDNR Inspection Reports**



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

Michael L. Parson  
Governor

Dru Buntin  
Director

September 7, 2023

David Kennedy, City Manager  
City of Neosho  
203 East Main Street  
Neosho, MO 64850

**UNSATISFACTORY FINDINGS  
RESPONSE REQUIRED**

Dear David Kennedy:

On July 19, 2023, a team member from the Missouri Department of Natural Resources conducted an inspection of the Neosho Wastewater Treatment Plant, located on Old Scenic Drive 0.1 miles north of the Jefferson Avenue intersection, Neosho in Newton County. The entity operates under the authority of Missouri State Operating Permit MO0104906.

Compliance with Missouri Clean Water Law was evaluated. The enclosed report is being issued with Unsatisfactory Findings for the violations identified.

Please refer to the enclosed report for details on the findings and required actions. **A written response documenting actions taken to correct the violations is required by the date specified in the report.**

Fact sheets are available on the Department's website to assist entities with understanding and following environmental requirements.

If you have any questions or would like to schedule a time to meet with a Department team member to discuss compliance requirements, please contact Joshua Grosvenor, EI, by calling 417-891-4300, by email at [SWRO@dnr.mo.gov](mailto:SWRO@dnr.mo.gov), or via mail at Southwest Regional Office, 2040 W. Woodland, Springfield, Missouri 65807-5912.

Sincerely,

SOUTHWEST REGIONAL OFFICE -

**Randall Willoughby, CHMM**  
Water Pollution Section Chief

RDW/jgn

Enclosure

c: Ken Brady, Local Manager, Alliance Water Resources  
Jerry Humphrey, Pretreatment Inspector, Alliance Water Resources

mo0104906-neosho-wwtp-20230907-insp-uf-newton-cw



Carbon Copy Address Attachment

Include each individual identified in the carbon copy line that is not a MDNR team member in one of the groups below.

Physical Addresses:

Email Addresses: (for those that have indicated this is the preferred method of receipt)

Ken Brady  
kbrady@alliancewater.com

Jerry Humphrey  
shoalcreek@alliancewater.com

FAX Numbers: (for those that have indicated this is the preferred method of receipt)



# Compliance Summary

**Facility Name: Neosho WWTP**

**Permit Number: MO0104906**

**Inspection Date: July 19, 2023**

**This summary is intended to direct your attention to violations noted during the inspection of your facility.**

## **Violations noted during the inspection:**

1. A review of the Discharge Monitoring Reports (DMRs) from July 2021 to July 2023 shows violations of permitted limitations. Failure to comply with the effluent limits is a violation of the MSOP, MSOP MO0104906, Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.
2. An effluent sample collected by a Department team member on January 11, 2023, revealed a violation of permitted effluent limits as shown in the table in the Sampling and Monitoring Section of the Report. Failure to comply with permitted effluent limits is a violation of Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo, and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.

## **Actions necessary to return to compliance:**

1. You have provided a comment during the submittal of the eDMR for the exceedances that addressed the required response.
2. Submit a written response detailing actions to prevent any future occurrences.

Refer to the Unsatisfactory Findings section on pages 4 through 5 of the enclosed report for detailed information about these violations and how to correct them so your facility may be returned to compliance.

**We appreciate your prompt attention to these issues. If you have any questions, or if you would like to meet to discuss these violations further, please contact Joshua Grosvenor, EI, at our Southwest Regional Office at (417)891-4300 or at [swro@dnr.mo.gov](mailto:swro@dnr.mo.gov).**

**Missouri Department of Natural Resources  
Southwest Regional Office  
Report of Inspection  
Neosho WWTP  
Newton County  
MO0104906  
September 7, 2023**

## **Introduction**

On July 19, 2023, a routine compliance inspection of the Neosho WWTP in Newton County, Missouri was conducted by the Missouri Department of Natural Resources. The purpose of this inspection was to determine compliance with the Missouri State Operating Permit (MSOP) MO0104906, the Missouri Clean Water Commission Regulations, and the Missouri Clean Water Law. This report presents the findings and observations made during the compliance inspection. Authority for this inspection is provided in Missouri Clean Water Law 644.026.1(21), RSMo. The following participants were present during the inspection:

### Neosho WWTP

Ken Brady, Local Manager, Alliance Water Resources

Jerry Humphrey, Pretreatment Inspector, Alliance Water Resources

### Missouri Department of Natural Resources

Joshua Grosvenor, EI, Environmental Engineer

## **Entity Description and History**

The wastewater treatment facility is owned by the City of Neosho, located at 203 East Main Street. The City contracts with Alliance Water Resources, Inc., to operate the WWTP. The facility is composed of two separate facilities that were previously permitted separately, Neosho Crowder WWTP and Neosho Shoal Creek WWTP. All effluent from the Neosho Crowder WWTP is sent to the Neosho Shoal Creek WWTP, where flows are combined prior to ultraviolet disinfection. The Neosho Crowder WWTP consists of flow equalization, bar screen, pre-aeration basins, primary clarifiers, trickling filters, recirculation basin, secondary clarification, and aerobic sludge digesters. The Neosho Shoal Creek WWTP consists of flow equalization, bar screen, oxidation ditches, aerobic sludge digesters, aerated sludge holding, and ultraviolet disinfection. The system has a design flow capacity of six million gallons per day. Sludge is land applied. The collection system is composed of approximately six miles of force main, 120 miles of gravity mains, six lift stations, and 2,500 manholes. The discharge from this facility flows into Shoal Creek classified as a gaining setting. The discharge is located in the Spring Basin (11070207) HUC 8 watershed. The facility has a design population equivalent of 59,000. The facility is required to have a Class (A) operator. The UTM 83 coordinates for this facility's outfall are E 377523, N 4084102. The MSOP MO0104906 was last issued on May 1, 2017, and expired on April 30, 2022. An application for renewal has been received by the Department and is in the process of being renewed.

Our records indicate that the Department conducted the previous inspection of this facility on August 21, 2019. The previous inspection listed effluent limitation violations, failure to provide proper notification of violations, missing limit parameters, failure to provide properly signed I&I and sludge reports, operation and maintenance issues, failure to implement a Stormwater Pollution Prevention Plan, and failure to conform to required analytical and sampling methods failure to report a bypass. A Letter of Warning (LOW) was issued for the documented violations.

Sufficient responses were received on September 30 and October 10, 2019, and the facility was returned to compliance on November 25, 2019.

During the office portion of the inspection, I reviewed the facility's file and Department records. The facility is current on their annual permit fee. I reviewed the facility's Form S Annual Sludge Report and Discharge Monitoring Reports (DMRs). The previous year's Annual Sludge Report was received by the Department on February 1, 2023, prior to the February 19<sup>th</sup> deadline.

I conducted a review of the facility's DMRs submitted to this office from July 2021 to July 2023 reflect overall compliance with MSOP limits and reporting requirements. The facility submits DMRs through the Department's Electronic Discharge Monitoring Report (eDMR) system. The following tables include the effluent limit exceedances that occurred during this period:

| Outfall #001  |                            |                                                     |                 |
|---------------|----------------------------|-----------------------------------------------------|-----------------|
| REPORT PERIOD | PARAMETER                  | MSOP LIMIT                                          | REPORTED RESULT |
| December 2021 | Cadmium, Total Recoverable | 0.6 µg/L Daily Maximum<br>0.3 µg/L Monthly Average  | 0.41 µg/L       |
|               | Ammonia as N               | 11.9 mg/L Daily Maximum<br>2.2 mg/L Monthly Average | 7.3 mg/L        |

| Internal Monitoring Point #IP5 |                                    |                                |                 |
|--------------------------------|------------------------------------|--------------------------------|-----------------|
| REPORT PERIOD                  | PARAMETER                          | MSOP LIMIT                     | REPORTED RESULT |
| April 2022                     | BOD <sub>5</sub> , Percent Removal | 85% Monthly Average<br>Minimum | 77%             |
|                                | TSS, Percent Removal               | 85% Monthly Average<br>Minimum | 70%             |
| December 2022                  | TSS, Percent Removal               | 85% Monthly Average<br>Minimum | 71%             |

| Internal Monitoring Point #IP3 |                  |                                                   |                 |
|--------------------------------|------------------|---------------------------------------------------|-----------------|
| REPORT PERIOD                  | PARAMETER        | MSOP LIMIT                                        | REPORTED RESULT |
| January 2023                   | BOD <sub>5</sub> | 65 mg/L Weekly Average<br>45 mg/L Monthly Average | 111 mg/L        |

### Discussion of Inspection and Observations

The inspection was conducted during normal business hours. I contacted Ken Brady on July 11, 2023, to provide notification of the inspection to ensure timely access to the site.

I arrived at the facility at approximately 9:00 a.m., and met with Ken Brady and Jerry Humphrey, and outlined the statutory authority, purpose, and scope of the inspection. I was granted permission to access the site and was accompanied throughout the tour of the facility.

The laboratory procedures and operational tests were reviewed. The City had a quality assurance and quality control (QA/QC) program for the laboratory and applicable equipment is recertified annually.

We discussed any sanitary sewer overflows (SSO) in the collection system and bypasses at the treatment facility for the last two years. The City has reported three (3) SSOs in 2023, four (4) SSOs in 2022, and three (3) SSOs in 2021. The City had no reported bypasses at the treatment facility during the reviewed time period. The occurrences were all attributed to heavy rainfall events.

A review of the submitted annual inflow and infiltration (I&I) report, for the year 2022, indicated the City observed a total of 206 manholes and rehabbed one (1) brick manhole. A total of 2,100 feet of collection line was smoke tested, 7,599 feet were inspected by Closed-Circuit Television (CCTV) with 43,880 feet cleaned. The City has adopted a program for the maintenance and repair of the collection system as required.

I reviewed copies of their laboratory analysis records and compared those records to the data submitted by the facility to the Department. I did not observe any discrepancies in the records.

We conducted a tour of the Neosho WWTP. We began at the receiving station for hauled wastewater (Photo 1), all wastes that are hauled to the facility enter at this point. I observed the sludge/wastewater holding tank (Photo 2). Flow then passes through the bar screen (Photo 3). The rotors in the oxidation ditches were operational and appeared to be providing adequate mixing (Photos 4 & 5). One of the two final clarifiers was in operation (Photos 6 & 7), and the second final clarifier was drained and awaiting routine maintenance (Photos 8 & 9). Flow is measured with a Parshall flume and flow transducer (Photo 10). The combined flows are treated with ultraviolet disinfection (Photo 11), and the treatment tanks were operational at the time of inspection.

The sludge holding tanks are located west of the treatment facility (Photo 12). Pump trucks connect and pull from a transfer structure (Photo 13). The outfall is marked as required (Photo 14). The receiving stream (Photo 15), did not appear to be impacted from the discharge.

I then observed the eight million gallon peak flow basin (Photos 16 & 17). Water from this basin is pumped to the treatment facility via a connected pump station (Photo 18). The peak flow pump station has a generator backup that is exercised regularly (Photo 19).

I observed the Jay Drive lift station (Photos 20 - 22), the lift station is surrounded by a security fence and has an audio/visual alarm system. The Jay Drive lift station appeared to have an accumulation of debris that needs to be removed. I then observed the Quince Road lift station (Photos 23-25), the lift station is surrounded by a security fence and has an audio/visual alarm

system. All lift stations in the collection system are visually inspected daily and a log is kept at each lift station (Photo 26). I then observed a manhole located near the intersection of S Neosho Boulevard and W South Street (Photos 27 & 28), this manhole has the most SSO issues. Since 2021 there have been five (5) reported SSOs at this manhole location. It was stated that the interceptor line downstream of this manhole will fill during high rainfall events and cause flows to back up and overflow. The City is currently in the process of correcting this issue. It was stated that the collection system downstream of the manhole will have a higher flow during times of high I&I and cause the system to back up out of this manhole.

I conducted an exit meeting with Ken Brady and Jerry Humphrey and outlined the preliminary findings. I explained the observations and any associated violations. I also provided recommendations on returning any violations to compliance. The recommendations are in the section below. I thanked Brady and Humphrey for their time and cooperation and departed the facility at 2:00 p.m.

### Sampling and Monitoring

The Department's Environmental Services Program (ESP) team members conducted compliance sampling at the WWTF on January 10-11, 2023. The attached sample results reflect non-compliance with the effluent limits set forth in the MSOP, MO0104906. The following table includes the effluent limit exceedances that occurred during this sampling event:

| Internal Monitoring Point #IP3 |                                                   |                 |
|--------------------------------|---------------------------------------------------|-----------------|
| PARAMETER                      | MSOP LIMIT                                        | REPORTED RESULT |
| BOD <sub>5</sub>               | 65 mg/L Weekly Average<br>45 mg/L Monthly Average | 164 mg/L        |

### Compliance Determination, Violations, and Required Actions

Based on observations made at the time of the inspection, the facility was found to be out of compliance with the Missouri Clean Water Law, its implementing regulations, and MSOP MO0104906.

### Unsatisfactory Findings

Please submit your responses to the following violations **by October 10, 2023**, to the Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

1. A review of the Discharge Monitoring Reports (DMRs) from July 2021 to July 2023 shows violations of permitted limitations. Failure to comply with the effluent limits is a violation of the MSOP, MSOP MO0104906, Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.

**REQUIRED ACTION:** You have provided a comment during the submittal of the eDMR that addressed the required response.

2. An effluent sample collected by a Department team member on January 11, 2023, revealed a violation of permitted effluent limits as shown in the table in the Sampling and Monitoring Section of the Report. Failure to comply with permitted effluent limits is a violation of Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo, and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.

**REQUIRED ACTION:** Submit a written response detailing actions to prevent any future occurrences.

### **Recommendations**

Please continue to evaluate and repair the collection system to reduce the inflow and infiltration.

The city is reminded to notify the department of all SSOs and bypasses within 24 hours and submit a written report within five (5) business days of the time the city becomes aware of an SSO or bypass as required in MSOP, MO0094854, Special Condition 12 and Standard Condition Part I, Section B. Bypasses and SSOs are to be reported to the department's Southwest Regional Office during normal business hours or by using the online SSOs and Bypass website at <http://dnr.mo.gov/modnrcag/> or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours.

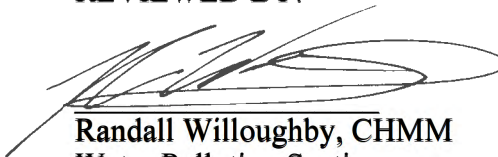
### **Signatures**

SUBMITTED BY:



Joshua Grosvenor, EI  
Environmental Engineer  
Southwest Regional Office

REVIEWED BY:



Randall Willoughby, CHMM  
Water Pollution Section  
Southwest Regional Office

### **Attachments**

Attachment # 1 - Photos 1 - 28

Attachment # 2 – Aerial Maps

Attachment # 3 – Results of Sample Analysis





Photo #: 1  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Receiving station for  
hauled wastewater.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 2  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Sludge/ wastewater  
holding tank.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 3  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Bar screen.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 4  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Oxidation Ditch  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 5  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Oxidation ditch, rotors providing aeration.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 6  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Operational clarifier.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 7  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Operational clarifier.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 8  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Clarifier, currently under repairs.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 9  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Clarifier, currently under repairs.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 10  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Parshall flume flow measurement.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 11  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Ultraviolet disinfection unit, functioning.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 12  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Sludge holding tank.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 13  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Hook up for sludge hauling trucks to load sludge.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 14  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Outfall sign.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 15  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Receiving stream, no observable impact from the discharge.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 16  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin, eight million gallons.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 17  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin, eight million gallons.  
Date Taken: July 19, 2023  
Media: WPCB

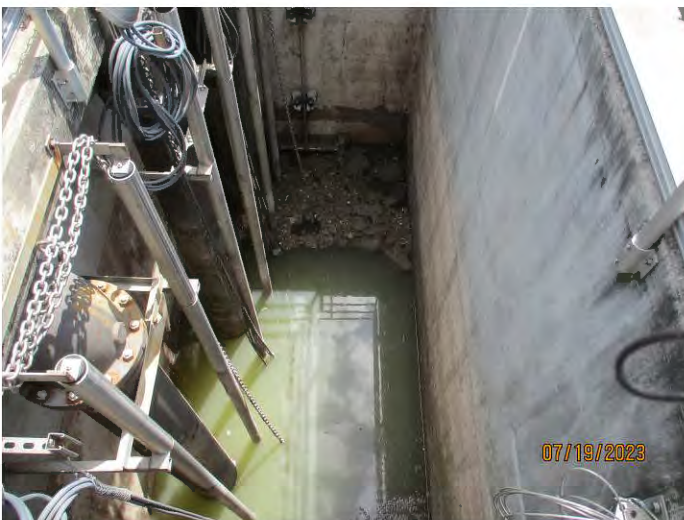


Photo #: 18  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin lift station.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 19  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin  
backup generators, exercised  
regularly.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 20  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Jay Drive Lift Station  
Description: Lift station surrounded  
by security fence.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 21  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Jay Drive Lift Station  
Description: Lift station control  
panel with inspection log visible.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 22  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Jay Drive Lift Station  
Description: Lift station wet well.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 23  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Lift station surrounded by a security fence.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 24  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Control panel.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 25  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Lift station wet well.  
Date Taken: July 19, 2023  
Media: WPCB

| Month: July |       | Year: 2023 |         |          |            |
|-------------|-------|------------|---------|----------|------------|
| Date        | Time  | Pump #1    | Pump #2 | Observed | Checked by |
| 1           | 7:11  | 899.2      | 711.0   | ✓        | JK         |
| 2           | 8:03  | 900.4      | 711.4   | ✓        | JK         |
| 3           | 8:20  | 901.0      | 712.2   | ✓        | JK         |
| 4           | 7:31  | 901.5      | 712.6   | ✓        | JK         |
| 5           | 8:30  | 902.0      | 713.0   | ✓        | JK         |
| 6           | 8:00  | 902.6      | 713.3   | ✓        | JK         |
| 7           | 8:10  | 903.2      | 713.7   | ✓        | JK         |
| 8           | 8:21  | 903.4      | 714.1   | ✓        | JK         |
| 9           | 8:45  | 904.3      | 714.5   | ✓        | JK         |
| 10          | 8:30  | 905.2      | 715.1   | ✓        | JK         |
| 11          | 8:34  | 905.7      | 715.4   | ✓        | JK         |
| 12          | 8:23  | 906.3      | 715.8   | ✓        | JK         |
| 13          | 8:19  | 906.9      | 716.3   | ✓        | JK         |
| 14          | 8:34  | 907.6      | 716.7   | ✓        | JK         |
| 15          | 8:15  | 907.7      | 716.9   | ✓        | JK         |
| 16          | 10:22 | 908.8      | 717.6   | ✓        | JK         |
| 17          | 8:05  | 909.4      | 718.0   | ✓        | JK         |
| 18          | 8:20  | 910.1      | 718.5   | ✓        | JK         |
| 19          | 8:30  | 910.6      | 719.0   | ✓        | JK         |
| 20          |       |            |         |          |            |
| 21          |       |            |         |          |            |
| 22          |       |            |         |          |            |
| 23          |       |            |         |          |            |
| 24          |       |            |         |          |            |
| 25          |       |            |         |          |            |
| 26          |       |            |         |          |            |
| 27          |       |            |         |          |            |

Photo #: 26  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Example of the daily inspection log kept at each lift station.  
Date Taken: July 19, 2023  
Media: WPCB



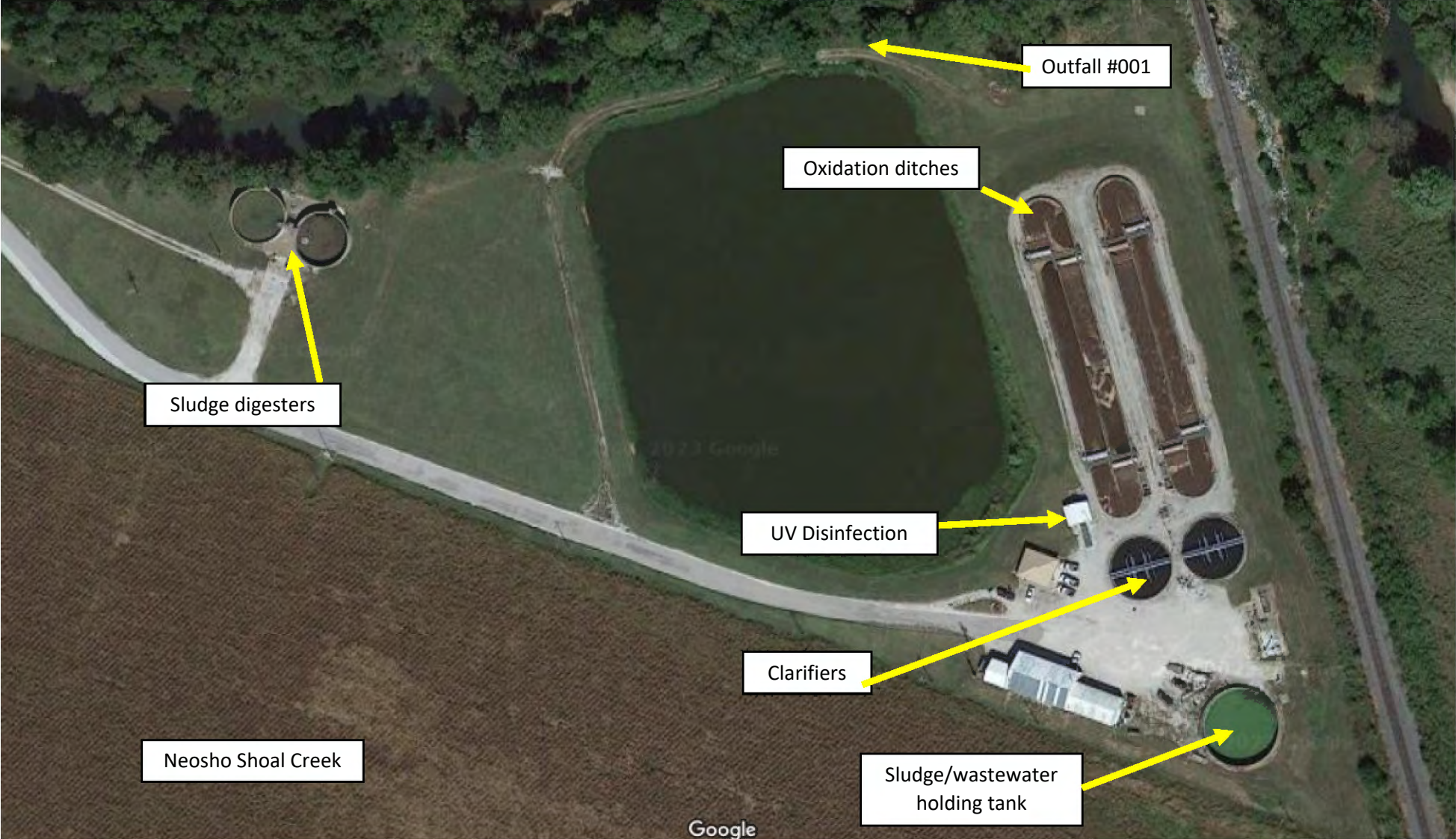
Photo #: 27  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: S Neosho Boulevard and W South Street  
Description: Manhole with the greatest frequency of overflows, during high flow events.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 28  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: S Neosho Boulevard and  
W South Street  
Description: Manhole with the  
greatest frequency of overflows,  
during high flow events.  
Date Taken: July 19, 2023  
Media: WPCB

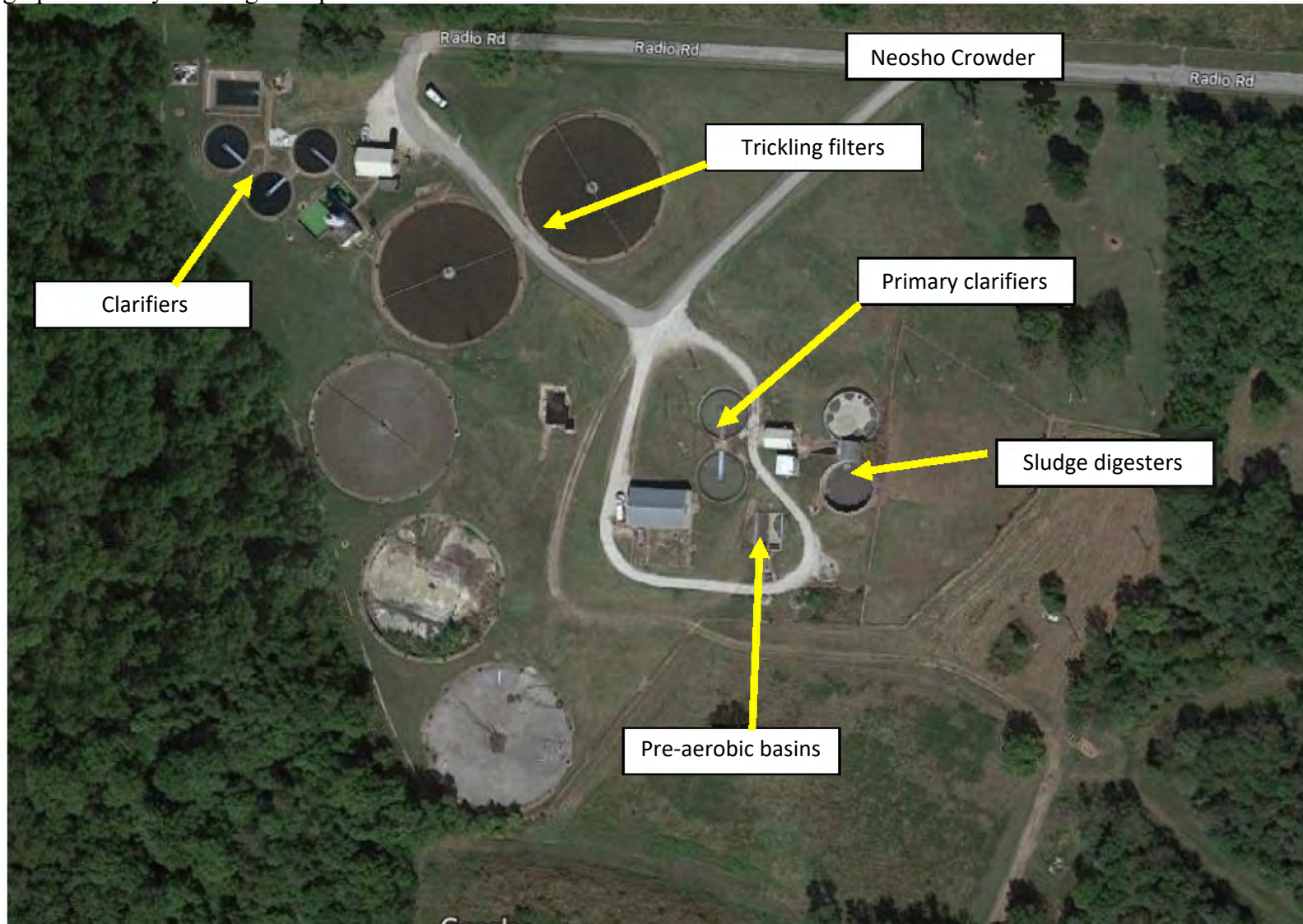


Aerial Photograph Courtesy of Google Maps.





Aerial Photograph Courtesy of Google Maps.





## **Appendix E – Sludge Hauling Cost Calculations**

Days Hauling

|                |     |
|----------------|-----|
| Loads per Year | 595 |
| Loads per Day  | 12  |
| Days per Year  | 50  |

Personnel

|                          |              |
|--------------------------|--------------|
| Personnel Rate (\$/Hr)   | \$ 18.00     |
| Personnel at 8 Hr/Day    | 2            |
| Personnel at 6 Hr/Day    | 1            |
| Personnel Cost (\$/Day)  | \$ 396.00    |
| Personnel Cost (\$/Year) | \$ 19,635.00 |

Power

| No. Pumps | HP | Hr/Day | kW-Hr/Day | \$/kW-Hr | \$/Day       |
|-----------|----|--------|-----------|----------|--------------|
| 1         | 5  | 4      | 14.914    | \$       | 0.11 \$ 1.64 |
| 2         | 5  | 8      | 59.656    | \$       | 0.11 \$ 6.56 |

|                      |           |
|----------------------|-----------|
| Power Cost (\$/Day)  | \$ 8.20   |
| Power Cost (\$/Year) | \$ 406.72 |

|                    |             |
|--------------------|-------------|
| Fuel Cost per Year | \$ 7,000.00 |
|--------------------|-------------|

Maintenance and Replacement

|                                            |               |
|--------------------------------------------|---------------|
| Tires (\$/Year)                            | \$ 4,000.00   |
| Oil (\$/Year)                              | \$ 1,000.00   |
| Repair Parts (\$/Year)                     | \$ 2,000.00   |
| Personnel Rate (\$/Hr)                     | \$ 18.00      |
| Maintenance (Hr/Year)                      | 50            |
| Maintenance (\$/Year)                      | \$ 900.00     |
| Truck Purchase Cost                        | \$ 160,000.00 |
| No. of Trucks                              | 2             |
| Truck Life                                 | 10            |
| Truck Salvage Value                        | \$ 30,000.00  |
| Truck Replacement (\$/Year)                | \$ 26,000.00  |
| Maintenance and Replacement Cost (\$/Year) | \$33,900      |

|                      |              |
|----------------------|--------------|
| Total Cost (\$/Year) | \$ 60,941.72 |
|----------------------|--------------|

## **Appendix F – City Financial Information**

## Wastewater

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

| Revenue Category     | FY2021 Actual       | FY2022 Adopted Budget | FY2022 Current YTD Actuals | FY2023 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                   | -                     | -                          | -                      |
| Intergovernmental    | -                   | -                     | -                          | 5,000,000.00           |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 2,214,749.74        | 2,214,000.00          | 1,817,484.77               | 2,204,000.00           |
| Fines & Forefeitures | -                   | -                     | -                          | -                      |
| Miscellaneous        | -                   | 15,900.00             | 15,900.00                  | -                      |
| Other Sources        | 191,021.00          | 241,021.00            | 200,850.00                 | 241,021.00             |
| <b>Total</b>         | <b>2,405,770.74</b> | <b>2,470,921.00</b>   | <b>2,034,234.77</b>        | <b>7,445,021.00</b>    |
|                      | \$ 100,000.00       | \$ 150,000.00         | \$ 125,000.00              | \$ 150,000.00          |

| Expense Category              | FY2021 Actual       | FY2022 Adopted Budget | FY2022 Current YTD Actuals | FY2023 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                   | -                     | -                          | -                      |
| Supplies & Materials          | 156.65              | 500.00                | 241.74                     | 500.00                 |
| Maintenance & Repair          | 31,488.09           | 58,000.00             | 28,237.77                  | 113,000.00             |
| Contractual Services          | 753,583.56          | 767,042.00            | 583,695.37                 | 1,089,271.00           |
| Utilities                     | 242,733.66          | 256,240.00            | 206,140.13                 | 263,070.00             |
| Other Expenses                | 9,803.18            | 642,051.35            | 21,080.41                  | 624,896.00             |
| Capital                       | -                   | 1,238,740.97          | 382,135.99                 | 6,598,114.00           |
| Other Uses                    | 191,021.00          | 241,021.00            | 200,850.00                 | 241,021.00             |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,228,786.14</b> | <b>3,203,595.32</b>   | <b>1,422,381.41</b>        | <b>8,929,872.00</b>    |
|                               | \$ -                | \$ -                  | \$ 0.00                    | \$ -                   |

### Highlights - Variances of 10% (FY2022 Projected/FY2023)

#### Increases:

**Insurance and Bonds-** Increase of property values 5.84% with additional Increase in property insurance 5.4% with additional 6% increase for FY23 Budget.

**Equipment Maintenance-**UV system \$30,000 and weir replacement \$40,000

**Fuel and Lubricants -** Increase for fuel cost

**Capital -** DNR ARPA Grant Application with cost share \$6,329,114

**Alliance Contract -** FY23 allocation based on dollars budgeted with CPI increase of 8.6%

#### Decreases:

**Revenue -** Pretreatment surcharge reduction based on current industrial customers

|                         | FY2021 Actual | FY2022 Adopted Budget | FY2022 Current Budget | FY2023 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No City FTEs            |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

Wastewater

| Account                               | Account Name                  | FY2021<br>Actual       | FY2022<br>Budget       | As of<br>7/31/2022<br>Actual | Estimated<br>FY2022<br>Actual | Proposed<br>FY2023<br>Budget |
|---------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| <b>Wastewater Revenues</b>            |                               |                        |                        |                              |                               |                              |
| 500-610-3520-610                      | Pretreatment/Surcharge WW     | 82,497.75              | 80,000.00              | 64,899.67                    | 77,879.60                     | 70,000.00                    |
| 500-610-3590-610                      | Billings to Customers WW      | 2,130,726.99           | 2,132,000.00           | 1,750,140.10                 | 2,100,168.12                  | 2,131,000.00                 |
| 500-610-3610-610                      | Sewer Saddle Charges          | 1,525.00               | 2,000.00               | 2,445.00                     | 2,934.00                      | 3,000.00                     |
| 500-610-4200-610                      | DNR Grant                     | -                      | -                      | -                            | -                             | 5,000,000.00                 |
| 500-610-4760-610                      | Insurance Claims              | -                      | -                      | -                            | -                             | -                            |
| 500-610-4800-610                      | Wastewater Misc. Revenue      | -                      | -                      | -                            | -                             | -                            |
| 500-610-4820-610                      | Wastewater Sale of Property   | -                      | 15,900.00              | 15,900.00                    | 19,080.00                     | -                            |
| <b>Total Wastewater Revenues</b>      |                               | <b>\$ 2,214,749.74</b> | <b>\$ 2,229,900.00</b> | <b>\$ 1,833,384.77</b>       | <b>\$ 2,200,061.72</b>        | <b>\$ 7,204,000.00</b>       |
| <b>Wastewater Expenditures</b>        |                               |                        |                        |                              |                               |                              |
| 500-610-5010-610                      | Wastewater Salaries           | -                      | -                      | -                            | -                             | -                            |
| 500-610-5020-610                      | Wastewater Overtime           | -                      | -                      | -                            | -                             | -                            |
| 500-610-5070-610                      | Availability Allowance        | -                      | -                      | -                            | -                             | -                            |
| 500-610-5170-610                      | Wastewater Social Security    | -                      | -                      | -                            | -                             | -                            |
| 500-610-5180-610                      | Wastewater Retirement         | -                      | -                      | -                            | -                             | -                            |
| 500-610-5185-610                      | Pension Expense               | -                      | -                      | -                            | -                             | -                            |
| 500-610-5190-610                      | Wastewater Health Insurance   | -                      | -                      | -                            | -                             | -                            |
| 500-610-5210-610                      | Wastewater Workers Comp.      | -                      | -                      | -                            | -                             | -                            |
| 500-610-5250-610                      | Wastewater Rent Expense       | 9,700.00               | 9,700.00               | 7,275.33                     | 8,730.40                      | 9,700.00                     |
| 500-610-5260-610                      | Wastewater Prof. Services     | 28,435.56              | 71,600.00              | 21,700.53                    | 26,040.64                     | 71,600.00                    |
| 500-610-5300-610                      | Wastewater Insurance & Bonds  | 11,293.99              | 12,000.00              | 8,594.51                     | 10,313.41                     | 43,318.00                    |
| 500-610-5320-610                      | Wastewater Facility Maint.    | 5,076.51               | 20,000.00              | 8,044.42                     | 9,653.30                      | 20,000.00                    |
| 500-610-5330-610                      | Wastewater Equipment Maint.   | 24,642.84              | 35,000.00              | 19,432.04                    | 23,318.45                     | 90,000.00                    |
| 500-610-5530-610                      | Wastewater Fuels/Lubricants   | 103.18                 | 32,000.00              | 13,453.73                    | 16,144.48                     | 15,000.00                    |
| 500-610-5590-610                      | Wastewater General Supplies   | 156.65                 | 500.00                 | 241.74                       | 290.09                        | 500.00                       |
| 500-610-5620-610                      | Wastewater Line Repair        | 1,768.74               | 3,000.00               | 761.31                       | 913.57                        | 3,000.00                     |
| 500-610-5700-610                      | Wastewater Comp., Software    | -                      | 351.35                 | 351.35                       | 421.62                        | 196.00                       |
| 500-610-5780-610                      | WW Vehicle                    | -                      | -                      | -                            | -                             | 45,000.00                    |
| 500-610-5790-610                      | WW Capital Equipment          | -                      | 158,700.00             | 14,067.53                    | 158,700.00                    | 174,000.00                   |
| 500-610-5800-610                      | Alliance Contract             | 713,854.01             | 683,442.00             | 553,400.33                   | 664,080.40                    | 974,353.00                   |
| 500-610-5990-610                      | Depreciation                  | -                      | 600,000.00             | -                            | 600,000.00                    | 600,000.00                   |
| 500-610-6300-610                      | Wastewater Electricity        | 229,809.77             | 240,000.00             | 194,569.33                   | 233,483.20                    | 246,770.00                   |
| 500-610-6310-610                      | Wastewater Heating Fuels      | 3,747.84               | 7,000.00               | 3,900.63                     | 4,680.76                      | 7,000.00                     |
| 500-610-6350-610                      | Wastewater Phones             | 9,176.05               | 9,240.00               | 7,670.17                     | 9,204.20                      | 9,300.00                     |
| 500-610-6390-610                      | Wastewater Minor Equipment    | -                      | -                      | -                            | -                             | -                            |
| 500-610-5810-619                      | WW Line Capital Improvem      | -                      | 1,080,040.97           | 368,068.46                   | 1,080,040.97                  | 6,379,114.00                 |
| <b>Total Wastewater Expenditures</b>  |                               | <b>\$ 1,037,765.14</b> | <b>\$ 2,962,574.32</b> | <b>\$ 1,221,531.41</b>       | <b>\$ 2,846,015.47</b>        | <b>\$ 8,688,851.00</b>       |
| <b>Wastewater Other Sources</b>       |                               |                        |                        |                              |                               |                              |
| 500-000-3361-000                      | Transfer fm WW -Rplcmt Rsrv   | 91,021.00              | 91,021.00              | 75,850.00                    | 91,021.00                     | 91,021.00                    |
| 500-000-3363-000                      | Slip Lining Reserve           | 100,000.00             | 150,000.00             | 125,000.00                   | 150,000.00                    | 150,000.00                   |
| NEW                                   | Transfer fm ARPA              | -                      | -                      | -                            | -                             | 841,420.00                   |
| 500-000-3361-000                      | Transfer fm WW -Rplcmt Rsrv   | -                      | -                      | -                            | -                             | 487,695.00                   |
| <b>Total Wastewater Other Sources</b> |                               | <b>\$ 191,021.00</b>   | <b>\$ 241,021.00</b>   | <b>\$ 200,850.00</b>         | <b>\$ 241,021.00</b>          | <b>\$ 1,570,136.00</b>       |
| <b>Wastewater Other Uses</b>          |                               |                        |                        |                              |                               |                              |
| 500-000-3261-000                      | Transfer to WW Rplcmt Reserve | 91,021.00              | 91,021.00              | 75,850.00                    | 91,021.00                     | 91,021.00                    |
| 500-000-3263-000                      | Slip Lining Reserve           | 100,000.00             | 150,000.00             | 125,000.00                   | 150,000.00                    | 150,000.00                   |
| 0                                     |                               | 0                      | 0                      |                              |                               | -                            |
| <b>Total Wastewater Other Uses</b>    |                               | <b>\$ 191,021.00</b>   | <b>\$ 241,021.00</b>   | <b>\$ 200,850.00</b>         | <b>\$ 241,021.00</b>          | <b>\$ 241,021.00</b>         |
| <b>Change in Fund Balance</b>         |                               | <b>1,176,984.60</b>    | <b>(732,674.32)</b>    | <b>611,853.36</b>            | <b>(645,953.75)</b>           | <b>(155,736.00)</b>          |

## Wastewater

### Wastewater Revenues

|                  |                             |
|------------------|-----------------------------|
| 500-610-3520-610 | Pretreatment/Surcharge WW   |
| 500-610-3590-610 | Billings to Customers WW    |
| 500-610-3610-610 | Sewer Saddle Charges        |
| 500-610-4200-610 | DNR Grant                   |
| 500-610-4760-610 | Insurance Claims            |
| 500-610-4800-610 | Wastewater Misc. Revenue    |
| 500-610-4820-610 | Wastewater Sale of Property |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 70,000.00          |                                        |
| 2,131,000.00       |                                        |
| 3,000.00           | cost coverage                          |
| 5,000,000.00       | DNR - ARPA Grant revenue               |
|                    |                                        |
|                    |                                        |
|                    | MIRMA grant???????                     |
|                    |                                        |
| 7,204,000.00       |                                        |

### Wastewater Expenditures

|                  |                              |
|------------------|------------------------------|
| 500-610-5250-610 | Wastewater Rent Expense      |
| 500-610-5260-610 | Wastewater Prof. Services    |
| 500-610-5300-610 | Wastewater Insurance & Bonds |
| 500-610-5320-610 | Wastewater Facility Maint.   |
| 500-610-5330-610 | Wastewater Equipment Maint.  |
| 500-610-5530-610 | Wastewater Fuels/Lubricants  |
| 500-610-5590-610 | Wastewater General Supplies  |
| 500-610-5620-610 | Wastewater Line Repair       |
| 500-610-5700-610 | Wastewater Comp., Software   |
| 500-610-5780-610 | WW Vehicle                   |
| 500-610-5790-610 | WW Capital Equipment         |
| 500-610-5800-610 | Alliance Contract            |
| 500-610-5990-610 | Depreciation                 |
| 500-610-6300-610 | Wastewater Electricity       |
| 500-610-6310-610 | Wastewater Heating Fuels     |
| 500-610-6350-610 | Wastewater Phones            |
| 500-610-6390-610 | Wastewater Minor Equipment   |
| 500-610-5810-619 | WW Line Capital Improvemt    |

| Amount       | Justification & Supporting Information                                                                                                                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9,700.00     |                                                                                                                                                                                                         |
| 71,600.00    | Future Growth Engineering for WW Plant Study \$60,000, Stronghold \$1800, PACE \$4500, Inspections \$2000, Security \$200, Locates \$3000, AED Maintenance \$100                                        |
| 43,318.00    | Property Ins incl 6%                                                                                                                                                                                    |
| \$20,000     |                                                                                                                                                                                                         |
| 90,000.00    | UV system maintenance \$30,000 Sludge truck tires \$5000 Crowder WWTP flow meter \$15000 Shoal Creek WWTP clarifier weir replacement \$40,000                                                           |
| 15,000.00    |                                                                                                                                                                                                         |
| 500.00       |                                                                                                                                                                                                         |
| 3,000.00     | Sewer Saddles                                                                                                                                                                                           |
| 196.00       | Firewall \$196                                                                                                                                                                                          |
| 45,000.00    | 1/2 ton Plant Truck                                                                                                                                                                                     |
| 174,000.00   | Influent pump replace/rebuild \$45,000 lift station repairs/upgrades \$15,000 72" zero-turn mower-WW \$19,000 Collection system portable push inspection camera \$55,000, shop roof insulation \$40,000 |
| 974,353.00   | updated to include 8.6% CPI                                                                                                                                                                             |
| 600,000.00   |                                                                                                                                                                                                         |
| 246,770.00   | 7.38% over actual FY21 -due to increase from recent rate case                                                                                                                                           |
| 7,000.00     | WW Shop heater propane                                                                                                                                                                                  |
| 9,300.00     |                                                                                                                                                                                                         |
| 6,379,114.00 | WW project DNR ARPA Cost Share \$6,329,113.94, 20 manhole rehabilitation \$50,000                                                                                                                       |
|              |                                                                                                                                                                                                         |
| 8,688,851.00 |                                                                                                                                                                                                         |

### Wastewater Other Sources

|                  |                             |
|------------------|-----------------------------|
| 500-000-3361-000 | Transfer fm WW -Rplcmt Rsrv |
| 500-000-3363-000 | Slip Lining Reserve         |
| NEW              | Transfer fm ARPA            |
| 500-000-3361-000 | Transfer fm WW -Rplcmt Rsrv |

| Amount     | Justification & Supporting Information                                                    |
|------------|-------------------------------------------------------------------------------------------|
| 91,021.00  |                                                                                           |
| 150,000.00 | \$300,000 every two years for slip lining-reduced by 108,000 Visu Sewer FY22 Change order |
| 841,420.00 | ARPA transfer for cost share DNR grant                                                    |
| 487,695.00 | City share of DNR grant                                                                   |
|            |                                                                                           |

### Wastewater Other Uses

|                  |                               |
|------------------|-------------------------------|
| 500-000-3261-000 | Transfer to WW Rplcmt Reserve |
| 500-000-3263-000 | Slip Lining Reserve           |

| Amount     | Justification & Supporting Information                                                    |
|------------|-------------------------------------------------------------------------------------------|
| 91,021.00  |                                                                                           |
| 150,000.00 | \$300,000 every two years for slip lining-reduced by 108,000 Visu Sewer FY22 Change order |
|            |                                                                                           |



# **ENGINEERING REPORT: SHOAL CREEK WASTEWATER TREATMENT PLANT EVALAUTION**

Prepared for:

**Neosho, Missouri**

July 2024



Prepared by



**ALLGEIER, MARTIN and ASSOCIATES, INC.**

**Consulting Engineers • Hydrologists • Surveyors**

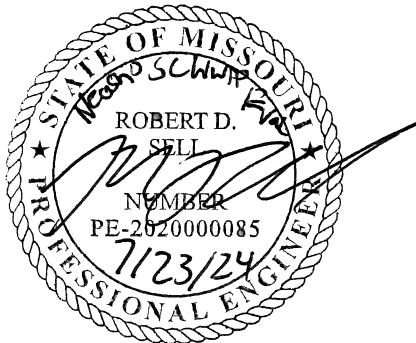
**Joplin, MO • Rolla, MO • Springfield, MO • Kansas City, MO • Tulsa, OK • Bentonville, AR**

# ENGINEERING REPORT: SHOAL CREEK WASTEWATER TREATMENT PLANT EVALAUTION

Prepared for:

**Neosho, Missouri**

July 2024



Prepared by



**ALLGEIER, MARTIN and ASSOCIATES, INC.**

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## **APPENDICES**

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## **1.0 EXECUTIVE SUMMARY**

The City of Neosho is a community of approximately 12,590 people. The City operates two wastewater treatment plants (WWTPs) under Missouri State Operating Permit Number MO-0104906. The main facility is the Shoal Creek WWTP which discharges into Shoal Creek and is the focus of this evaluation. The second facility is the Crowder WWTF which pumps effluent to the Shoal Creek Plant to combine with the Shoal Creek Plant's effluent and then pass through the UV structure for disinfection before discharging to Shoal Creek. The most recent major improvements to the Shoal Creek Plant occurred in the late-2000s with much of the facility being original from the 1980's. Consequently, much of the equipment at the Shoal Creek Plant is older and nearing the end of its useful life.

In order to not only address the immediate needs of the Shoal Creek Plant but also assess its future needs, an evaluation of the facilities was undertaken. The needs of the Shoal Creek Plant were evaluated based on two different scenarios. The first is where the Shoal Creek Plant and the Crowder Plant remain separate as they are now. As such, improvements to the Shoal Creek Plant would only consider conditions representative of the Plant treating the same portion of the City's flow as it does now with Crowder treating the rest. The second scenario considers the Shoal Creek Plant treating wastewater from Crowder and the Crowder Plant being taken out of service. For each scenario, various improvements were evaluated and categorized as either high, medium, or low priority. The priority of an improvement is based on its importance for ensuring adequate treatment capacity as well as proper operation of the Shoal Creek Plant for the future.

Considering keeping the two plants separate, the existing treatment facilities at the Shoal Creek WWTP require various improvements to allow for continued reliable and effective operation. While some components do not have adequate capacity for current or future design conditions, such as the pumping capacity of the raw sewage pumps or the oxygen supply capacity of the rotors, the main issue with the existing facilities is simply their age. Nearly all equipment has greatly surpassed the end of its useful life. As such, constant maintenance and repair of the system is required, beyond what should be expected for a properly functioning system.

To address these issues at the Shoal Creek Plant, it is recommended that the improvements identified as being a high priority be pursued at a minimum. This will allow for improved operation and decreased maintenance for the facilities and allow them to meet projected demands for the foreseeable future. Table 9-1 provides a total project cost estimate for these improvements. The construction cost is estimated to be \$5,390,000 with the total project cost, considering additional costs such as engineering, estimated to be \$7,269,885.

The existing facilities at the Crowder WWTP are also in need of improvements, though a detailed evaluation of these facilities was outside the scope of this report. Considering the age and general condition of the plant, based on observations and discussions with plant personnel, it is likely that the necessary improvements will be just as extensive and costly, if not more so, than what would be involved in constructing new facilities at the Shoal Creek Plant. For this reason, it is thought that funds for such improvements would be better spent to consolidate the City's treatment facilities into a single plant. This would require that additional facilities be constructed at the Shoal Creek Plant. Not only would this reduce overall operation and maintenance for the treatment facilities, but it would also provide the City with brand-new and up-to-date facilities instead of trying to retrofit new equipment into an existing system of a dated design.

Should the City wish to consolidate treatment facilities, further improvements will be required in addition to those recommended for the Shoal Creek Plant alone. Mainly, this includes the construction of an additional treatment train to allow for increased treatment capacity along with various other improvements. Table 9-2 provides a cost estimate for all improvements necessary for the Crowder Plant to be taken offline and the Shoal Creek Plant to treat all wastewater for the City of Neosho. For these improvements, the estimated construction cost is \$17,536,705 with the total project cost being estimated at \$22,778,255.

Finally, the City of Neosho will be required to comply with 10 CSR 20-7.015 Effluent Regulations by January 1, 2033. This will require that phosphorus levels from plant effluent be consistently below 1.0 mg/L. In order to have adequate data available for determining the necessary improvements needed to achieve compliance, it is recommended that the City continue to sample phosphorus effluent levels and start sampling influent phosphorus levels.

## **2.0 INTRODUCTION**

### **2.1 Background**

The City of Neosho operates a sewage collection system and two mechanical wastewater treatment plants under the Missouri State Operating Permit No. MO-0104906, a copy of which is included in Appendix A of this report. The permit establishes limits for the discharge of treated wastewater and disposal of sludge from the City's treatment facilities. The last evaluation of the wastewater collection and treatment facilities was conducted in 2007, with the last improvements implemented at the Shoal Creek Plant dating back to 2009.

The continuing authority for the wastewater treatment facilities is the City of Neosho. City Hall is located at 203 East Main Street, Neosho, MO 64850, and can be reached at 417-451-8050. Alliance Water Resources is contracted by the City to operate the City's water and wastewater systems, including the treatment facilities. For the Shoal Creek Plant, Jerry Humphrey is the certified operator (certification number 10405) and contact person. The phone number for the Shoal Creek Plant is 417-451-8075.

### **2.2 Scope**

The following report is intended to provide the City of Neosho with recommendations for their Shoal Creek Wastewater Treatment Plant to meet the City's wastewater needs for the next twenty years. As a part of this plan, data was compiled to establish design conditions for the City's wastewater treatment plant in the year 2043. Population growth projections were utilized in conjunction with data relative to existing wastewater flows and loads to establish design criteria. A limited infiltration/inflow analysis is presented to evaluate the adequacy of existing and proposed facilities to handle wet weather flows. It should be noted that, since the focus of this study is on Shoal Creek WWTP, the evaluation does not include the facilities at the Crowder WWTP. Aspects of the Crowder Plant discussed in this report are done only as needed in order to evaluate their impact on the Shoal Creek Plant.

Plans are presented to improve the Shoal Creek Plant to meet future demands, and cost estimates are provided for the described work. Finally, funding options are reviewed to provide the City with information relative to the financial impact of the expansion project on system users.

### **3.0 GENERAL INFORMATION**

#### **3.1 Location**

The City of Neosho is located in Newton County, Missouri, serving as the county seat. Neosho is located approximately 11 miles east of Seneca and approximately 20 miles south of Joplin.

#### **3.2 Population**

At the time of the 2010 census, the City's population was 11,835; the population in 2020 was 12,590. Neosho is comprised of mainly residential dwellings and commercial establishments, with only a few industrial users.

#### **3.3 Economics**

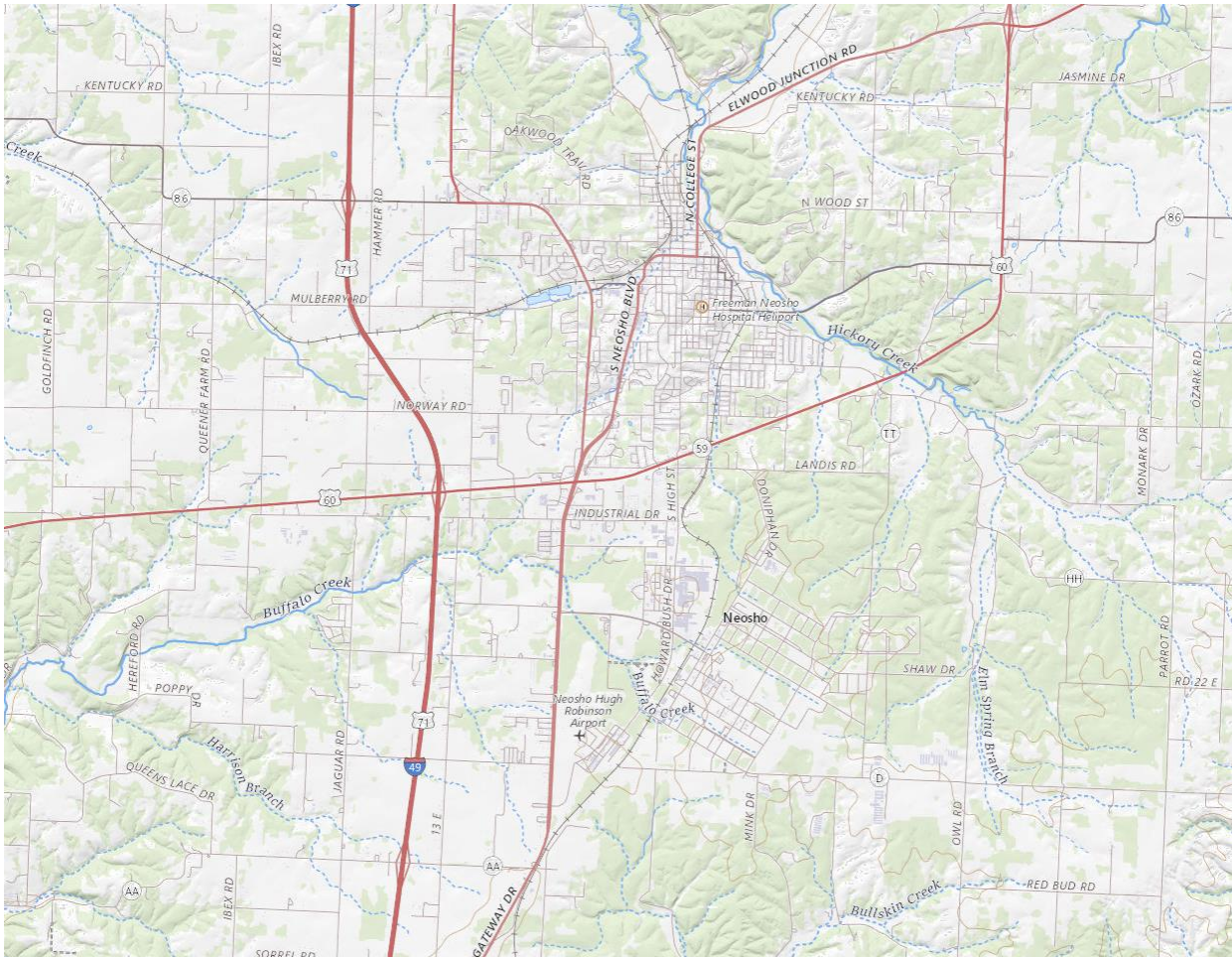
In 2010, the median household income was approximately \$32,488, based on the census data current at the time. Considering 2020 census data, the current median household income is approximately \$43,925. The low-income and moderate-income percentage (LMI) is 47.46%, based on data for 2015.

#### **3.4 Environmental**

##### ***3.4.1 Topography and Geology***

The City of Neosho's Shoal Creek WWTP is located in Section 13, Township 25 N, Range 32 W in Newton County, Missouri, and Outfall #001 into Shoal Creek is located north of the facility in Section 12, Township 25 N, Range 32 W. Neosho is located within the Ozark Plateaus, which are major structural features of the area. As can be seen in the topographic map shown in Figure 3-1, the City lies in a valley between gently rolling hills and ridges with Shoal Creek flowing north towards Joplin from the north end of the City. Hickory Creek runs along the east end of the City. The elevation varies from approximately 980 ft near Outfall #001 to Shoal Creek, located towards the north end of the City, to about 1290 ft near Crowder College at the south end of the City.

**Figure 3-1. Map of Neosho, Missouri Area**



### 3.4.2 Climate

The average annual precipitation for the area around Neosho is approximately 51.70 inches. The monthly precipitation averages for the area are given as follows:

**Table 3-1. Precipitation Data**

| Month    | Precipitation (in.) | Month     | Precipitation (in.) |
|----------|---------------------|-----------|---------------------|
| January  | 4.13                | July      | 5.11                |
| February | 3.44                | August    | 2.85                |
| March    | 5.89                | September | 2.25                |
| April    | 4.57                | October   | 5.88                |
| May      | 9.98                | November  | 3.11                |
| June     | 3.29                | December  | 2.08                |

*Source: <https://www.weather.gov/>. 2000-2022 Average Precipitation.*

The majority of the precipitation occurs during the spring, summer, and fall months, with the winter months being relatively dry. The spring, summer, and fall precipitation usually comes in the form of showers or thunderstorms. Most of the winter precipitation is rain, freezing rain, or short-lived snow cover rarely lasting more than a few days.

The temperature is relatively mild in the area, however sudden temperature changes are common. Generally, winters are cold, and summers are hot, however prolonged periods of either extreme are rare. Periods of cool, dry weather occur during the predominantly hot, humid summers, and periods of mild, above-freezing temperatures occur during the cold, dry winters. The average winter temperature will not typically fall below zero, however when it does occur, it is usually on only one or two days per year. The first freeze at the average elevations in the planning area normally occurs in the last week of October, while the last freeze normally occurs in the middle of April.

### 3.4.3 Receiving Stream

The combined effluent from the Shoal Creek and Crowder wastewater treatment facilities flows from the outfall structure, discharging into Shoal Creek, as shown in Figure 3-3. Shoal Creek is listed on the 303(d) list for E. Coli and zinc and is a Class “P” stream, which indicates that it is a stream that maintains permanent pools that support aquatic life.



### **3.5 Wastewater Facilities**

The City of Neosho operates and maintains a wastewater collection system and two mechanical treatment plants. As indicated previously, the scope of this report is the evaluation of the Shoal Creek WWTP and excludes evaluations of the Crowder WWTP and the overall collection system beyond their immediate impacts on the Shoal Creek Plant, though general information pertaining to these facilities is provided in this section.

#### **3.5.1 Wastewater Collection System**

The existing public collection system consists of approximately 348,580 lineal feet of gravity sewer and 42,320 lineal feet of pressure sewer.

#### **3.5.2 Crowder Wastewater Treatment Plant**

The Crowder WWTP was previously permitted independently from the Shoal Creek WWTP under permit number MO-0039926. This facility consists of two flow equalization basins, a bar screen, two pre-aeration basins, two primary clarifiers, three trickling filters, a recirculation basin, three secondary clarifiers, chlorine disinfection, a chlorine contact basin, dechlorination, two primary aerobic sludge digesters, and a sludge drying bed.

The facility is designed to treat 3 MGD and the sludge produced in treatment is hauled off and land applied. The design sludge production of the facility is approximately 812 dry tons/year per the current operating permit. The Crowder WWTP discharges to the ultraviolet disinfection system located at the Shoal Creek WWTP via a lift station located at the tail end of the Crowder Plant. Combined effluent is then discharged into Shoal Creek.

While this report does not include an evaluation of the Crowder Plant, considerations must be given as to the facility's impact on the Shoal Creek Plant for both current and future conditions. As such, an observational site visit of the Crowder Plant was conducted to discuss the operations and needs of the facility in general terms. Based on this visit, it appears that significant improvements to the existing facilities are needed to allow the plant to continue to function properly into the foreseeable future. The facilities needed to convey wastewater from Crowder to the Shoal Creek Plant already exist. As such, it likely makes more sense from an economic and operational standpoint to consider treating flows from the Crowder Plant in improvement alternatives to the Shoal Creek Plant rather than pursuing major improvements to the Crowder Plant. Figure 3-2 provides a layout of the Crowder Wastewater Treatment Plant.

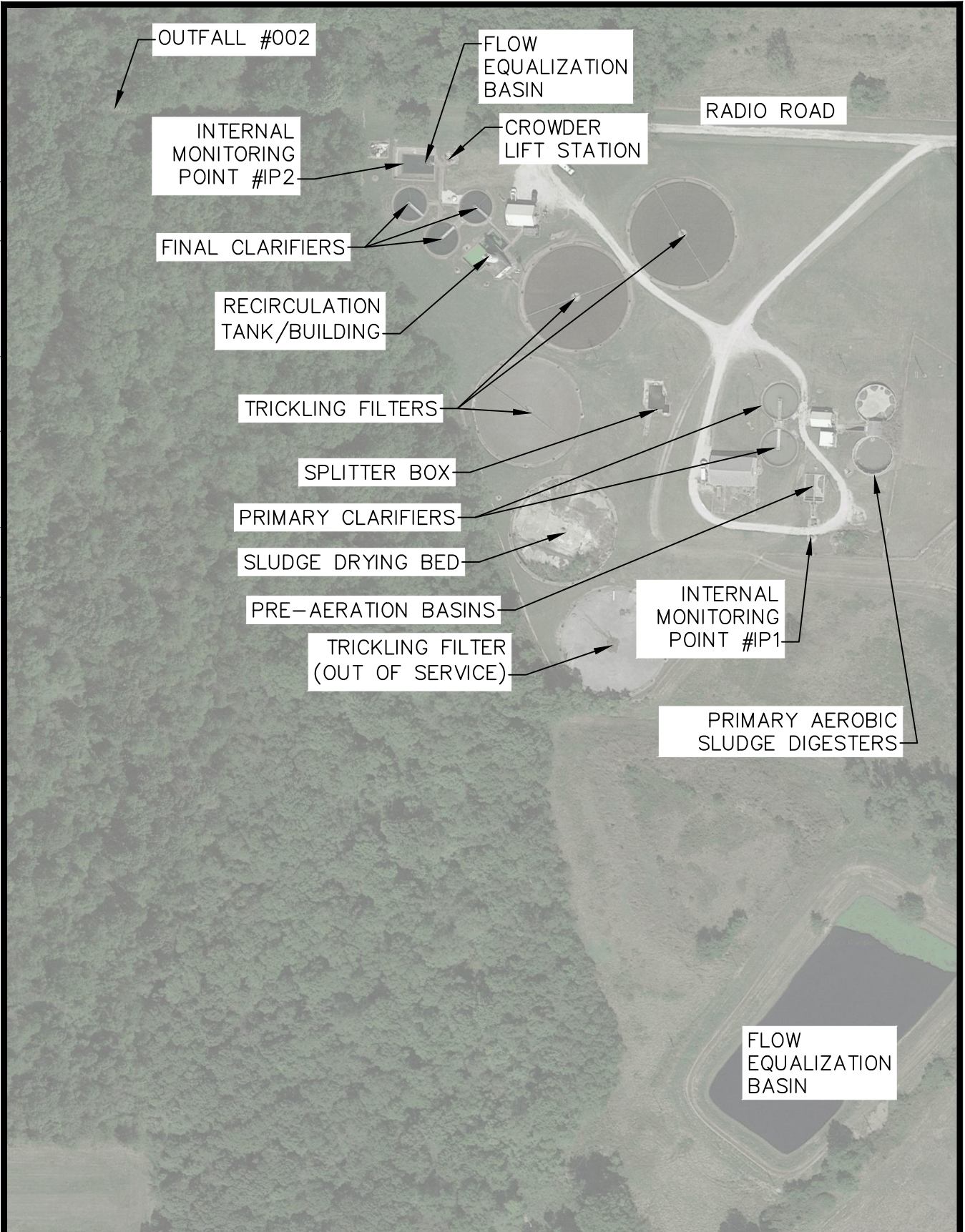


FIGURE 3-2. CROWDER WWTP EXISTING FACILITIES  
SHOAL CREEK WWTP EVALUATION

NEOSHO, MISSOURI  
JULY 2024



**ALLGEIER, MARTIN and ASSOCIATES, INC**

CONSULTING ENGINEERS and SURVEYORS  
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680 - 7200

### **3.5.3 Shoal Creek Wastewater Treatment Plant**

Neosho's Shoal Creek Wastewater Treatment Plant is an extended aeration (oxidation ditch) mechanical plant that discharges into Shoal Creek. The facility is designed to treat an average flow of 3 MGD, though plant personnel indicate that it can handle up to 6.0 MGD. The plant has a design sludge production capacity of approximately 630 dry tons per year, according to the operating permit. Ultraviolet disinfection is provided to meet seasonal E. coli limits. The most recent major upgrades to the Neosho Shoal Creek WWTP occurred in the late-2000s with the construction of the flow equalization basin. This facility includes a flow equalization basin, a bar screen, two oxidation ditches, two secondary clarifiers, ultraviolet disinfection, an aerobic sludge digester, and sludge holding basins. Biosolids are land applied.

Figure 3-3 shows the layout of the existing facilities at the Shoal Creek Wastewater Treatment Plant.



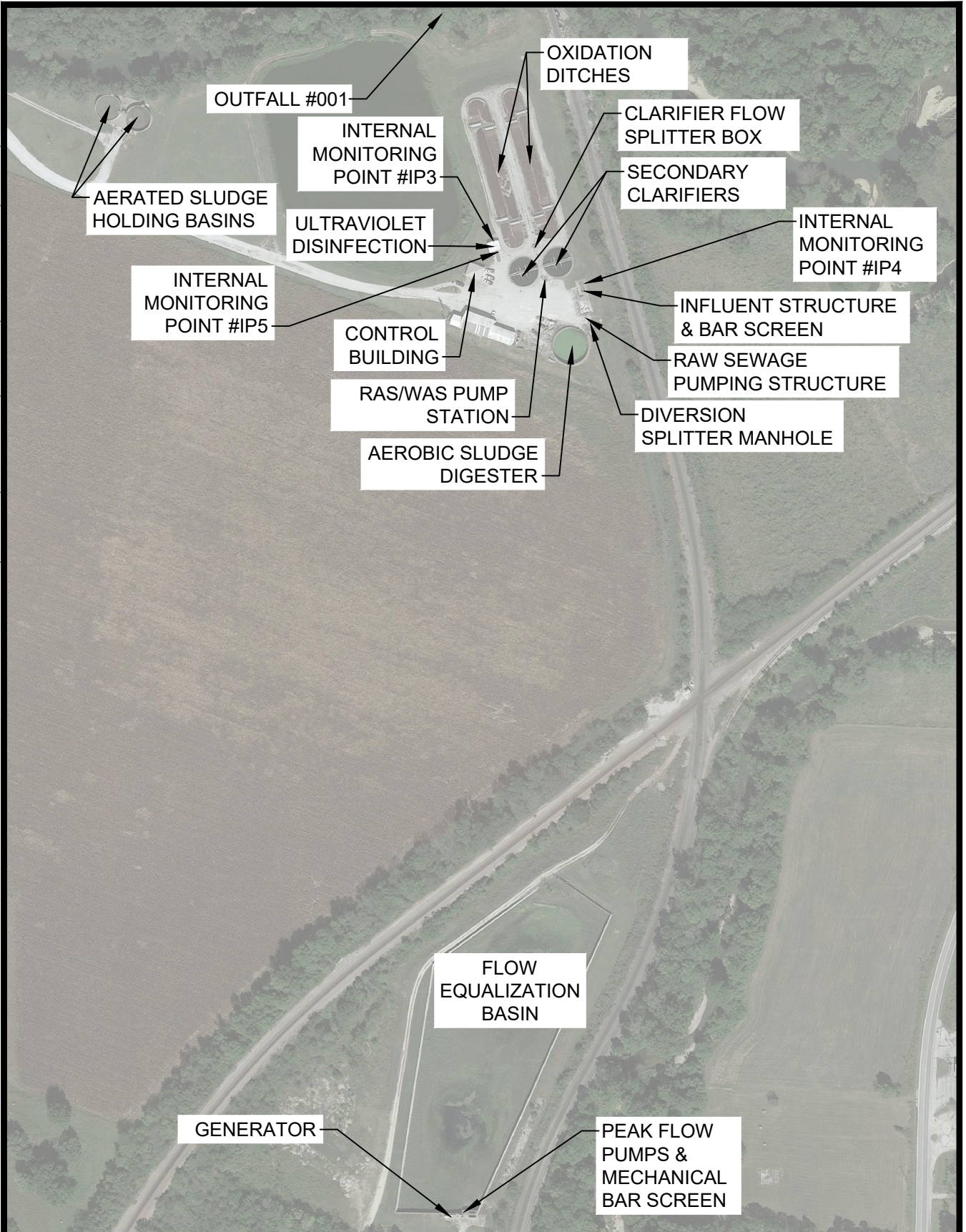


FIGURE 3-3. SHOAL CREEK WWTP EXISTING FACILITIES  
SHOAL CREEK WWTP EVALUATION

NEOSHO, MISSOURI  
JULY 2024



**ALLGEIER, MARTIN and ASSOCIATES, INC**

CONSULTING ENGINEERS and SURVEYORS  
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680 - 7200

## **4.0 INFLUENT, EFFLUENT, AND INSTREAM LIMITATIONS**

### **4.1 Summary of Receiving Water Quality**

Neosho's Shoal Creek Wastewater Treatment Plant discharges into Shoal Creek. Shoal Creek is a Class "P" stream, which indicates that it is a stream that maintains permanent pools that support aquatic life. Shoal Creek is a 303(d) listed stream for *E. coli* and zinc.

Missouri Water Quality Standards indicate that Shoal Creek has nine beneficial use designations, including protection of aquatic life, warm-water habitat, cool-water habitat, drinking water supply, industrial water supply, human health protection as it relates to the consumption of fish, irrigation for use on crops utilized for human or livestock consumption, livestock and wildlife protection, secondary contact recreation, and whole-body contact recreation that supports swimming.

### **4.2 Permit Requirements**

As stated previously, both the Shoal Creek and Crowder wastewater treatment plants operate under the same permit given that the Crowder Plant's discharge mixes with the Shoal Creek Plant's effluent under normal conditions. The combined effluent shares a common outfall located at the Shoal Creek Plant. However, the Crowder Plant does have two other outfalls that are permitted for discharge. For this reason, five internal monitoring points are also included in the permit to act as defined locations for data collection as well as to function as points with effluent limitations and monitoring requirements of their own. The following sections discuss these requirements in greater detail for each of the locations outlined in the permit. The current operating permit expired as of April 30, 2022.

#### **4.2.1 Influent Monitoring Requirements**

The City's operating permit establishes influent monitoring requirements for 5-day biochemical oxygen demand (BOD<sub>5</sub>) and total suspended solids (TSS) requiring the monthly average concentrations to be reported in order to determine removal efficiency for these constituents at each plant. Internal Monitoring Point 1 (#IP1) is located at the influent of the Crowder WWTP, shown in Figure 3-2. Internal Monitoring Point 4 (#IP4) is located at the influent of the Shoal Creek WWTP, shown in Figure 3-3.

#### **4.2.2      *Current Effluent Limitations and Monitoring Requirements***

The City's current operating permit establishes criteria for the required quality of effluent from the wastewater treatment process, as well as procedures for disposal of the waste solids (sludge). Current effluent limits are based on an average plant design flow of 3,000,000 gallons per day (GPD) for the Crowder WWTP and 3,000,000 gallons per day (GPD) for the Shoal Creek WWTP. Each plant has at least one monitoring point that is specific to that facility with Outfall #1 being the point of discharge to Shoal Creek of the combined flow from both facilities. The location of this outfall is shown in Figure 3-3.

Outfall #002, Outfall #003, Internal Monitoring Point 2 (#IP2), and Internal Monitoring Point 3 (#IP3) are specific to the Crowder WWTF. Outfall #002 is the original point of discharge from the facility to a tributary of Buffalo Creek. While the Crowder Facility can meet the limits established for this outfall, normal operations do not see a discharge at this point as flow is sent to the Shoal Creek Plant. Outfall #003 is the discharge point to the golf course irrigation storage ponds while #IP2 represents the point of discharge from the last storage pond. City personnel have indicated that the piping that allows the Crowder Plant to send flow to the golf course storage ponds has been removed. Therefore, discharge to and from the storage ponds is not currently possible. Considering this, and that none of these three locations impact the Shoal Creek Plant in any way, these locations will not be discussed further in this evaluation.

Internal Monitoring Point 3 is the location where effluent monitoring for flow sent from the Crowder Plant to the Shoal Creek Plant occurs and serves as the primary basis for effluent limits and monitoring requirements for the Crowder Plant. Considering that effluent at this location impacts the Shoal Creek Plant, this monitoring location must be accounted for in this evaluation. Figure 3-2 shows the location of Outfall #002, Outfall #003, #IP2, and #IP3.

Finally, Internal Monitoring Point 5 (#IP5) is the point at which effluent from the Shoal Creek Plant is monitored before mixing with effluent from the Crowder Plant. Figure 3-3 shows the location of this monitoring point.

Full values and requirements for effluent limitations and monitoring for all outfalls and internal monitoring points can be found in the NDPES permit in Appendix A. Table 4-1 provides the effluent limits applicable to Outfall #001, #IP3, and #IP5 as they are pertinent to the evaluation of the Shoal Creek Plant.



**Table 4-1. Current Effluent Limitations and Monitoring Requirements**

| Location     | Effluent Parameter            | Units   | Limitations |             |              |
|--------------|-------------------------------|---------|-------------|-------------|--------------|
|              |                               |         | Daily Max   | Weekly Avg. | Monthly Avg. |
| Outfall #001 | Ammonia as N (Apr 1 - Sep 30) | mg/L    | 6.1         | -           | 1.2          |
|              | Ammonia as N (Oct 1 - Mar 31) | mg/L    | 11.9        | -           | 2.2          |
|              | E. coli (Apr 1 - Oct 31)      | #/100mL | -           | 630         | 126          |
|              | Oil & Grease                  | mg/L    | 15          | -           | 10           |
|              | Phenol                        | ug/l    | 4200.5      | -           | -            |
|              | Cadmium, Total Recoverable    | ug/l    | 0.6         | -           | 0.3          |
|              | Iron, Total Recoverable       | ug/l    | 1849.6      | -           | 702.5        |
|              | Selenium                      | ug/l    | 9.2         | -           | 3.2          |
| #IP3         | BOD <sub>5</sub>              | mg/L    | -           | 65          | 45           |
|              | Total Suspended Solids        | mg/L    | -           | 65          | 45           |
| #IP5         | BOD <sub>5</sub>              | mg/L    | -           | 45          | 30           |
|              | Total Suspended Solids        | mg/L    | -           | 45          | 30           |

#### **4.2.3      *Future Effluent Limitations and Monitoring Requirements***

Recent revisions to 10 CSR 20-7.015 Effluent Regulations, which became effective on October 30, 2023, establish phosphorus effluent limitations for applicable treatment facilities. Among the impacted facilities are those that have a design flow greater than or equal to 1 million gallons per day. Under this condition, both of Neosho's treatment plants are affected by this regulation. In general, the new regulations will require that discharged phosphorus levels are consistently below 1.0 mg/L and that the percent removal of phosphorus from influent to effluent is at least 75%. Compliance must be achieved by January 1, 2033.

Reviewing Daily Monitoring Report data from January 2020 to December 2022, effluent from Outfall #001 had an average P concentration of 1.36 mg/L with a maximum value of 1.8 mg/L and a minimum of 0.16 mg/L. While the average value is over the proposed limit of 1.0 mg/L, compliance will likely be able to be achieved without drastic modifications to the facilities, assuming the data available is an accurate depiction of typical conditions. Continuing to sample phosphorus effluent levels will be important to ensure adequate data is available for verifying discharge concentrations. Further, it is recommended that influent phosphorus sampling be conducted at both plants as well in order to determine influent phosphorus loadings. This data will be important in calculating percent removal as well as helping determine the improvements necessary for meeting effluent requirements.

Phosphorus removal can be achieved chemically or biologically. The likely first step is to adjust operations to try to achieve as much biological removal as possible. Considering it is nearly 10 years until compliance with the new regulation is required, there is time to monitor results and further adjust operations to assess how confident the City is with being able to consistently meet P effluent levels of less than 1.0 mg/L. It is recommended that this process begin in the near future. If the proposed P limit is not able to be met biologically, then an evaluation of additional improvements will need to occur.

#### **4.2.4      *Instream Monitoring Requirements***

The City's operating establishes instream monitoring requirements on a quarterly basis for both upstream of Outfall #001 (#SM1) and downstream of Outfall #001 (#SM2). The permit and monitoring requirements can be found in Appendix A.

## **5.0 WASTEWATER FLOWS AND LOADS**

### **5.1 Current Conditions**

#### **5.1.1 Source**

The City of Neosho supplies all its own water from a combination of surface water (approximately 73%) and groundwater (approximately 27%). The primary sources of wastewater for the Shoal Creek WWTF are residential and commercial users, though industrial users contribute flow into the Crowder system which then passes through the UV structure. No permitted industrial users currently discharge directly to the Shoal Creek system. However, flow from the Crowder plant can be routed directly into the Shoal Creek facilities.

#### **5.1.2 Hydraulic Loading**

A key aspect in evaluating any existing treatment facility is establishing a solid basis for existing wastewater flows. Utilizing data from monthly Discharge Monitoring Reports (DMRs) is typically the best means of acquiring accurate flow data. For this report, DMR data from January 2020 to December 2022 was compiled and evaluated. Considering that flow from the Crowder Plant is sent to the ultraviolet disinfection process at the Shoal Creek Plant and can be routed through the Shoal Creek facility as well, flows from both facilities must be accounted for when evaluating the Shoal Creek Plant. From this data, the total flow being discharged from each facility was evaluated, which therefore includes not only flow from residential, commercial, and industrial sources but also extraneous water that enters the system as I&I as well.

For the Crowder Plant, DMR flow data for 2020 through 2022 was not available. City personnel indicate that the average daily flow at the Crowder Plant is approximately 600,000 gpd with peak flows reaching approximately 5.0 MGD. While current flow data is not available, flow values from 2013 and 2014 indicate an average daily flow of 900,000 and a peak of 4.3 MGD. To be conservative, 900,000 gpd will be used as the existing average daily flow while 5.0 MGD will be used for the current peak flow rate. These two values yield a peaking factor of 5.6. Using the equation from the MDNR Minimum Design Standards,  $PF = (18 + \sqrt{P}) / (4 + \sqrt{P})$  where P = population in thousands, the theoretical peaking factor for the City of Neosho would be 2.85. Comparing this theoretical value to the actual peaking factor for the Crowder Plant, the actual value is nearly double that of the theoretical. While this likely indicates high levels of I&I are affecting the Crowder basin, a peaking factor of 5.6 is not unusual.

Flow data for the Shoal Creek Plant is based on data collected at Internal Monitoring Point 5. From this information, the average dry weather flow is approximately 2.2 MGD with the average monthly flow being approximately 3.2 MGD throughout the wettest part of the year. The overall average flow for the facility is 2.4 MGD. Considering a peak flow of 5.5 MGD compared to the average monthly flow yields a peaking factor of 2.3. Comparing this value to the previously calculated theoretical value of 2.85 shows that peak flows experienced at the Shoal Creek Plant appear to be slightly lower than what would be estimated. Wastewater treatment plant flows for the Shoal Creek facility from January 2020 through December 2022 are summarized in Appendix B.

As stated, there is the potential for Crowder flows to be routed through the Shoal Creek Plant. As such, consideration should be given to this condition as it relates to the capacity of the Shoal Creek Plant when planning for the future. Combining the average daily flows from both the Crowder and Shoal Creek Plants produces an average daily wastewater flow of 3.3 MGD. Comparing this value to the current population of 12,590 yields an average per capita flow of approximately 262 gpcd. This value, when compared to an average value of 100 gpcd is 2.62 times higher than the anticipated daily flow.

When considering a combined peak flow, both peak values could be totaled to yield a potential peak flow of 10.5 MGD. Given this assumes that peak flows in both systems occur on the same day, this value is likely somewhat conservative. However, this peak flow is not necessarily unreasonable for a peak inflow value for both systems. Current flow data for both the Shoal Creek Plant and the Crowder Plant is summarized in Table 5-1.

**Table 5-1. Shoal Creek and Crowder Plant Current Flows**

|                        | <b>Crowder</b> | <b>Shoal Creek</b> | <b>Shoal Creek and Crowder</b> |
|------------------------|----------------|--------------------|--------------------------------|
| <b>Average (MGD)</b>   | 0.9            | 2.4                | 3.3                            |
| <b>Max Month (MGD)</b> | 1.7            | 4.4                | 6.0                            |
| <b>Peak (MGD)</b>      | 5              | 5.5                | 10.5                           |
| <b>Peaking Factor</b>  | 5.6            | 2.3                | 3.2                            |

### 5.1.3 Pollutant Loading

Influent BOD<sub>5</sub> and total suspended solids are measured for percentage removal calculations only. No other constituents are required to be measured for the influent according to the MSOP. Samples for the Crowder Plant are taken at Internal Monitoring Point 1 and samples for the Shoal Creek Plant are collected at Internal Monitoring Point 4. DMR data analyzed includes results from once-weekly effluent and influent grab samples to calculate removal efficiency. This data includes measurements of BOD<sub>5</sub> and TSS.

Influent BOD<sub>5</sub> and TSS data were combined with corresponding effluent flow measurement data (estimated as being equal to influent flow) to estimate influent loads in lb/day according to the following equation:

$$\text{Influent Loading} \left( \frac{\text{lb}}{\text{day}} \right) = \text{Flow (MGD)} \times \text{Concentration} \left( \frac{\text{mg}}{\text{L}} \right) \times 8.345$$

For the Shoal Creek Plant, corresponding influent concentration data and flow values were available to be able to calculate daily loading values. As indicated, however, such flow data was not available for the Crowder Plant. In order to estimate Crowder daily flow values that correspond to influent concentration readings, it will be assumed that flow ratios between the Shoal Creek and Crowder plants are similar on a daily basis. Based on this assumption, Crowder's daily flow values can be estimated using Shoal Creek's ratio of daily flow to its average flow relative to Crowder's average flow. From these flow values, daily influent concentrations can be used to estimate daily BOD<sub>5</sub> and TSS loadings for the Crowder Plant.

As stated previously, the condition of the Crowder Plant would likely require major improvements to allow it to maintain proper operation going into the future. Considering the existing facilities are available and in use to convey flow from Crowder to Shoal Creek, it is more reasonable to assume that the Shoal Creek Plant will need to be able to treat the raw wastewater from Crowder at the time improvements to Crowder would be pursued. As such, a loading condition for the Shoal Creek Plant that reflects receiving untreated flow from Crowder is a more reasonable condition to plan for instead of continuing to receive treated effluent from the existing Crowder facilities. Based on this, a combined loading condition for Shoal Creek treating raw wastewater from Crowder, assuming no treatment occurs through the existing Crowder facilities, will be a scenario evaluated in this report.

Table 5-2 provides a summary of BOD and TSS influent sampling data from January 2020 to December 2022 along with corresponding influent loads. The raw DMR sampling data and calculated loading values for both plants are provided in Appendix B.

**Table 5-2. Shoal Creek and Crowder Plant Current Loads**

|                           | Shoal Creek      |       | Crowder          |      | Combined         |       |
|---------------------------|------------------|-------|------------------|------|------------------|-------|
|                           | BOD <sub>5</sub> | TSS   | BOD <sub>5</sub> | TSS  | BOD <sub>5</sub> | TSS   |
| <b>Avg. (mg/l)</b>        | 52               | 91    | 444              | 203  | -                | -     |
| <b>Peak (mg/l)</b>        | 630              | 566   | 2420             | 1540 | -                | -     |
| <b>Avg. (lb/day)</b>      | 1260             | 1850  | 2828             | 1399 | 3915             | 3233  |
| <b>Max Month (lb/day)</b> | 5937             | 5885  | 6021             | 4775 | 6809             | 8919  |
| <b>Peak (lb/day)</b>      | 12085            | 13217 | 16281            | 7366 | 17877            | 14873 |

Table 5-3 displays typical constituent concentrations for medium-strength wastewater from Metcalf & Eddy (2014), *Wastewater Engineering Treatment and Reuse*, Fifth Edition. Typically, systems that collect relatively low per-capita flows tend to produce higher-strength wastes, and systems that collect relatively high per-capita flows tend to produce lower-strength wastes.

**Table 5-3. Typical Constituent Concentrations for Municipal Wastewater**

| Item                                                                                                                                                   | Low Strength Wastewater <sup>(1)</sup> | Medium Strength Wastewater <sup>(1)</sup> | High Strength Wastewater <sup>(1)</sup> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|-----------------------------------------|
| Per-capita Flowrate                                                                                                                                    | 150 gal/capita-day                     | 100 gal/capita-day                        | 50 gal/capita-day                       |
| BOD <sub>5</sub>                                                                                                                                       | 133 mg/L                               | 200 mg/L                                  | 400 mg/L                                |
| TSS                                                                                                                                                    | 130 mg/L                               | 195 mg/L                                  | 389 mg/L                                |
| 1. Adapted from <i>Metcalf and Eddy</i> , <i>Wastewater Engineering: Treatment and Resource Recovery</i> , 5 <sup>th</sup> edition (2014), Table 3-18. |                                        |                                           |                                         |

Based on these typical ranges, wastewater at the Shoal Creek Plant tends to be low strength in terms of BOD<sub>5</sub> and TSS while wastewater at the Crowder Plant could be considered to generally be high strength for BOD<sub>5</sub> and TSS. Crowder's influent being higher strength is most likely because the facility receives industrial waste from permitted facilities.



#### **5.1.4 Infiltration/Inflow**

##### **5.1.4.1. Theoretical Wastewater Flows**

Water sales data serves as an indicator of the theoretical wastewater flows that would be anticipated if there were no infiltration/inflow entering the City sewer system. The City of Neosho operates a water treatment facility and provides its own drinking water. Water usage data shows that the City of Neosho sold an average of 1,239,757 gallons per day between residential, commercial, and industrial users from 2020 to 2022. It is typical to assume that wastewater flows would be approximately 80% of water sales if no I&I was present in the system. Using this assumption yields a theoretical wastewater flow of 991,805 gallons per day. The difference between the theoretical and actual wastewater flow most likely represents a rough estimate of the average I&I entering the Neosho system. Table 5-4 provides a comparison of the total theoretical wastewater flow to the average daily flow for both the Shoal Creek and Crowder facilities to produce an estimated average daily I&I flow value.

**Table 5-4. Wastewater Flow Based on Water Usage Data**

| <b>Daily Avg. Water Usage</b> | <b>Estimated Daily Avg. Wastewater*</b> | <b>Actual Daily Avg. Wastewater Flow</b> | <b>Estimated Daily Avg. I&amp;I</b> |
|-------------------------------|-----------------------------------------|------------------------------------------|-------------------------------------|
| 1.240 MGD                     | 0.992 MGD                               | 3.300 MGD                                | 2.308 MGD                           |

\*80% of the Water Usage

##### **5.1.4.2. Cost-Effective Analysis**

“Excessive” I&I is the quantity of infiltration/inflow that can be economically eliminated from a sewer system by rehabilitation, as determined by a cost-effective analysis that compares the costs for I&I correction with total costs for transportation and treatment of I&I.

Based on the information presented in Table 5-4, it can be concluded that 2.308 MGD represents a rough estimate of the additional daily flow entering Neosho’s wastewater system as I&I. This indicates that on average, approximately 30% of flow within the system comes from users (residential, commercial, and industrial) and nearly 70% of the total average daily volume is from infiltration and inflow which enters the system through leaking sewer pipes, manholes, and from the private side of the collection system (service laterals, sump pump connections, foundation drains, etc.).

Inflow and infiltration increase operating and maintenance costs for both the collection and treatment systems. In the collection system, excess flow that cannot make its way to the treatment facilities solely by gravity, is required to be pumped at one point or another. This brings increased

power consumption and wear on the pumping equipment. In conjunction with the increases in power costs and equipment maintenance costs associated with transporting and treating peak flows, additional operator time is required to monitor collection system lift stations, etc. Similarly, additional costs are also incurred at the treatment facilities as the excess flow must also be treated, increasing power consumption, operator time, equipment maintenance, and chemical costs.

Considering that I&I flow has a reduced treatment cost due to lesser organic loadings and that many of the existing facilities within the system would still operate in a similar manner even without I&I, it will be assumed that the cost to treat I&I is 30% of the operating costs. With an average total annual operating cost of \$1,617,445 for the wastewater system, not considering debt service, \$485,233 (30%) can be roughly estimated to be associated with I&I flow. With an estimated 743,570,000 gallons of I&I going through the City's system in a year, the average O&M cost associated with I&I can be estimated as \$0.65 per 1,000 gallons.

#### **5.1.4.3. I&I Findings**

Considering the large portion of the City's flow that is estimated as being I&I, it is recommended that the City pursue efforts at reducing the extraneous flow entering the system. Beyond increased O&M costs, excessive I&I decreases collection and treatment system capacity which necessitates large and costly facility improvements to accommodate these flows. As such, it is prudent to spend the necessary resources now to regain capacity in the existing facilities. This will help prevent costly expansions in the future that serve mainly to convey and treat I&I while still not solving the issue.

Unfortunately, meaningfully reducing I&I within the system is typically costly and is a long-term goal that is generally achieved after years of work. Estimating the amount of I&I reduction relative to the degree of efforts pursued is also simply not feasible. These things considered, it is still necessary to evaluate the needs of the wastewater system based on current and future flows that do not reflect a reduction in I&I. Further, it is not recommended to delay any necessary improvements to existing facilities in the hopes that I&I will be reduced sufficiently and quickly enough to eliminate the need for said improvements. Addressing current and future system needs while also working to reduce I&I are efforts that should be pursued simultaneously. If the City decides to focus on I&I abatement, a detailed flow monitoring, acoustic sounding, and smoke testing campaign would be required to be conducted first.

## 5.2 Future Conditions

### 5.2.1 General

Future conditions must be considered when studying Neosho's wastewater treatment facility. This section will provide estimates of wastewater treatment needs through the year 2043.

### 5.2.2 Population Projections

Recent trends in population growth in Neosho will serve as the primary indicator of future growth patterns, and therefore future wastewater flows. The past six decades were analyzed for future population projections.

**Table 5-5. Census Data**

| Year | Population | Increase<br>or<br>Decrease | Percent<br>Change |
|------|------------|----------------------------|-------------------|
| 1960 | 7,452      | N/A                        | N/A               |
| 1970 | 7,517      | 65                         | 0.9 %             |
| 1980 | 9,493      | 1976                       | 26.3 %            |
| 1990 | 9,254      | -239                       | - 2.5 %           |
| 2000 | 10,505     | 1251                       | 13.5 %            |
| 2010 | 11,835     | 1330                       | 12.7 %            |
| 2020 | 12,590     | 755                        | 6.4 %             |

To propose an improvement program for the future, it is necessary to project the population for the design year of 2043 so that proposed facilities can be designed to accommodate future flows and loads. Four methods of projecting the population were utilized: Arithmetic Projection, Geometric Projection, Average Percent Increase Projections Per Annual Basis, and Average Percent Increase Per Decade Basis. The calculations for the individual projection methods are provided in Appendix C of this report.

Each method has both advantages and disadvantages when projecting the future population. For a community the size of Neosho, the addition of a large housing subdivision or a moderately large industry locating to the area may significantly impact the population growth. Excluding such a factor, it is reasonably accurate to arrive at a composite figure based on the average of the population projections described in Table 5-6.

**Table 5-6. Population Projections**

| Method                                              | Projected Population |
|-----------------------------------------------------|----------------------|
| Arithmetic Projection for 2043                      | 14,560               |
| Geometric Projection for 2043                       | 15,393               |
| Average Annual Percent Increase Projection for 2043 | 15,660               |
| Average Decade Percent Increase Projection for 2043 | 15,523               |
| Average                                             | 15,284               |

The average of the 2043 population projections of 15,284 people will be used for this report. This reflects a population increase of approximately 21% from the current population.

### **5.2.3 Hydraulic Loading**

The population projection indicates an approximately 21% increase in population over the next 20 years. It's reasonably accurate to assume that the increase in average daily wastewater flows will mirror that of the population; especially if the I&I problem is not mitigated. Additionally, it is anticipated that the peaking factor calculated previously will remain applicable.

The projected wastewater flows for both the Crowder and Shoal Creek treatment facilities in the year 2043 are presented in Table 5-7.

**Table 5-7. Shoal Creek and Crowder Plant Projected Flows**

|                        | Crowder | Shoal Creek | Shoal Creek and Crowder |
|------------------------|---------|-------------|-------------------------|
| <b>Average (MGD)</b>   | 1.1     | 2.9         | 4.0                     |
| <b>Max Month (MGD)</b> | 2.1     | 5.3         | 7.3                     |
| <b>Peak (MGD)</b>      | 6.1     | 6.7         | 12.7                    |
| <b>Peaking Factor</b>  | 5.6     | 2.3         | 3.2                     |

#### 5.2.4 Pollutant Loading

As with hydraulic loading, it is reasonable to estimate that the organic loading will increase at a rate that reflects the increase in population. As such, a 21% increase in organic loads in 2043 compared to current loads can be expected. Table 5-8 represents these estimated future load values for the Crowder and Shoal Creek plants.

**Table 5-8. Shoal Creek and Crowder Plant Projected Loads**

|                           | Shoal Creek      |       | Crowder          |      | Combined         |       |
|---------------------------|------------------|-------|------------------|------|------------------|-------|
|                           | BOD <sub>5</sub> | TSS   | BOD <sub>5</sub> | TSS  | BOD <sub>5</sub> | TSS   |
| <b>Avg. (mg/l)</b>        | 52               | 91    | 444              | 203  | -                | -     |
| <b>Peak (mg/l)</b>        | 630              | 566   | 2420             | 1540 | -                | -     |
| <b>Avg. (lb/day)</b>      | 1525             | 2239  | 3422             | 1692 | 4737             | 3912  |
| <b>Max Month (lb/day)</b> | 7183             | 7120  | 7286             | 5778 | 8239             | 10792 |
| <b>Peak (lb/day)</b>      | 14622            | 15993 | 19700            | 8913 | 21631            | 17996 |

## 6.0 WASTEWATER TREATMENT FACILITY DESIGN CRITERIA

### 6.1 Influent Design Criteria

In establishing influent design criteria, current and future conditions as well as the impacts of directing flow from the Crowder Plant through the Shoal Creek Plant for treatment must be considered. This presents four different parameters for evaluating the capacity of existing facilities and alternatives for system improvements. Table 6-1 summarizes information discussed in Section 5.0 to present these four conditions.

**Table 6-1. Shoal Creek Influent Design Conditions**

|                                 | Shoal Creek |                           |              | Shoal Creek and Crowder |                           |              |
|---------------------------------|-------------|---------------------------|--------------|-------------------------|---------------------------|--------------|
|                                 | Flow (MGD)  | BOD <sub>5</sub> (lb/day) | TSS (lb/day) | Flow (MGD)              | BOD <sub>5</sub> (lb/day) | TSS (lb/day) |
| <b>Current (2023) Avg.</b>      | 2.4         | 1260                      | 1850         | 3.3                     | 3915                      | 3233         |
| <b>Current (2023) Max Month</b> | 4.4         | 5937                      | 5885         | 6.0                     | 6809                      | 8919         |
| <b>Current (2023) Peak</b>      | 5.5         | 12085                     | 13217        | 10.5                    | 17877                     | 14873        |
| <b>Future (2043) Avg.</b>       | 2.9         | 1525                      | 2239         | 4.0                     | 4737                      | 3912         |
| <b>Future (2043) Max Month</b>  | 5.3         | 7183                      | 7120         | 7.3                     | 8239                      | 10792        |
| <b>Future (2043) Peak</b>       | 6.7         | 14622                     | 15993        | 12.7                    | 21631                     | 17996        |

### 6.2 Effluent Design Criteria

As described previously, a phosphorus effluent limit of 1.0 mg/L will come into effect on January 1, 2033. Initially, efforts should be made to try to meet this limit biologically. If this cannot be accomplished, further evaluation will be required to reduce phosphorus effluent levels chemically via additional improvements to the treatment facilities.

With no other known limits to be considered for the immediate future, effluent design criteria for both current and future conditions will be the same as those outlined for the Shoal Creek Plant in the existing operating permit. As such, it is also assumed that the current limits for Outfall #001 and the more stringent limits of #IP5 will still apply to effluent from Shoal Creek under the circumstance that flow from the Crowder Plant is sent through Shoal Creek to receive treatment. These design limits are presented in Table 6-2.



**Table 6-2. Shoal Creek Design Effluent Limitations**

| Effluent Parameter            | Units   | Limitations |             |              |
|-------------------------------|---------|-------------|-------------|--------------|
|                               |         | Daily Max   | Weekly Avg. | Monthly Avg. |
| Ammonia as N (Apr 1 - Sep 30) | mg/L    | 6.1         | -           | 1.2          |
| Ammonia as N (Oct 1 - Mar 31) | mg/L    | 11.9        | -           | 2.2          |
| E. coli (Apr 1 - Oct 31)      | #/100mL | -           | 630         | 126          |
| Oil & Grease                  | mg/L    | 15          | -           | 10           |
| Phenol                        | ug/l    | 4200.5      | -           | -            |
| Cadmium, Total Recoverable    | ug/l    | 0.6         | -           | 0.3          |
| Iron, Total Recoverable       | ug/l    | 1849.6      | -           | 702.5        |
| Selenium                      | ug/l    | 9.2         | -           | 3.2          |
| BOD <sub>5</sub>              | mg/L    | -           | 45          | 30           |
| Total Suspended Solids        | mg/L    | -           | 45          | 30           |

## **7.0 EVALUATION OF EXISTING TREATMENT FACILITIES**

### **7.1 Process Description and Evaluation**

The features and general conditions of each component of the facility are described below. Further, each component is evaluated based on its ability to accommodate both current and future design conditions.

#### **7.1.1 Crowder Lift Station**

At the end of the Crowder Plant is a lift station that conveys treated flow to the Shoal Creek Plant for UV disinfection and then discharge to Shoal Creek. This lift station is equipped with two 50 HP line shaft vertical turbine pumps capable of producing approximately 1,500 gpm at 97 feet TDH. This gives the pumping facility a firm capacity of 1,500 gpm (2.16 MGD) assuming one pump is out of service. Wastewater conveyed by these pumps travels through approximately 5.7 miles of 16" diameter pressure sewer to make it to the Shoal Creek Plant. Since this facility pumps flow to the Shoal Creek Plant, it must also be evaluated for any improvement needs and its ability to meet current and future flow conditions.

Comparing the pumping capacity of this facility to the current flow values for Crowder, it has adequate capacity for the average (0.9 MGD) and max month (1.7 MGD) conditions, but not the peak flow (5.0 MGD). This is validated by the fact that plant personnel have indicated that flow equalization basins at the plant fill up during peak flows. Similarly, for future conditions, the existing pumps could accommodate the average (1.1 MGD) and max month (2.1 MGD) flows, but not the peak flows (6.1 MGD). While flow equalization is available to help attenuate the peak flows, additional pumping capacity is likely needed to make sure that future flows do not exceed the capacity of the equalization basins.

In addition to the need for more pumping capacity, the existing pumps are simply in need of replacement due to age. At the time that additional capacity is pursued, it is recommended that the entire lift station be renovated to ensure adequate operation going into the future.

### **7.1.2      *Flow Equalization Basins***

The Shoal Creek Treatment Plant utilizes a flow equalization basin located roughly 1,600 feet upstream of where the main interceptor line ties into the plant. The basin has concrete walls with a clay/bentonite lined bottom and has a nominal capacity of approximately 12.1 million gallons. The basin is also equipped with a mechanically cleaned bar screen ahead of three submersible pumps. Each pump is 40 HP and designed to operate at 4,020 gpm (5.79 MGD) at 42 TDH. Both the screen and the pumps are located in the main channel that sees wastewater flow before being diverted to the basin.

Upon observation of the mechanical screen, it appears that some flow may be able to bypass the screen by flowing around the screen. This is thought to have no adverse impacts on the operation of the system and is not something that needs to be addressed. The screen appears to have adequate hydraulic capacity for both current and future flows, including if flow from Crowder is diverted through the screen. A submersible mixer is also located in the channel. The equipment and controls at the basin are equipped with a backup 130 kW generator.

A level transducer and backup float switch control the pumps to turn on based on the water level. As the water level in the channel reaches the defined set points, the pumps turn on to transfer flow over the channel wall and into the flow equalization basin. As peak flows subside, stored wastewater is allowed to gravity flow back into the sewer line via a manually operated sluice gate and continue to the Shoal Creek Plant.

Plant personnel have indicated that the pumps turn on to divert flow to the equalization basin too soon when the plant is still has capacity. This causes the equalization basin to fill too quickly. As such, the plant operators choose to operate the pumps manually instead of relying on the controls that are currently in place. When considering that each pump has a capacity of 5.79 MGD and is equipped with soft starts, it seems very likely that the pumping capacity of each pump is simply too great. Diverting that much flow at once relative to current flows, including peak flows, would leave very little flow to go to the plant. To provide better operation, it is recommended that the controls and operating characteristics of the pumps be altered to allow for better control of the facilities.

The Crowder Treatment Plant also has two flow equalization basins. The first basin is located near the head of the plant and has an estimated volume of 5,900,000 gallons. The other basin is much smaller and is located next to the lift station at the end of the plant that pumps flow to the Shoal Creek Plant. It has an estimated capacity of 100,000 gallons. Together, this provides

approximately 6,000,000 gallons of flow storage capacity at the Crowder Plant. No immediate improvements are needed to these facilities.

### **7.1.3      *Diversion Splitter Manhole***

Wastewater enters the Shoal Creek Treatment Plant via a 30" interceptor sewer which discharges into the diversion splitter manhole at the head of the plant. This structure allows the flow to be diverted using valves into either of the two pumps at the raw sewage pumping structure via two 24" pipes.

The existing facilities are in good working condition and are not anticipated to need to be replaced or improved in the near future. No other issues or needed improvements are identified for this structure. The diversion splitter manhole is thought to be adequate in its current condition to meet current and future needs.

### **7.1.4      *Raw Sewage Pumping Structure***

The raw sewage pumping structure consists of two, 8' diameter manholes each of which is equipped with a Fairbanks Morse vertical turbine pump. Each pump is rated for 3.0 MGD at 33' TDH. Each pump discharges through a 16" pipe before combining into a common 20" pipe that carries flow to the inlet structure. One pump is equipped with a VFD and both pumps operate off air bubbler systems. Plant personnel indicate that replacement parts for the pumps are hard to get. Considering the age of the existing pumps, it is likely that this will continue to be an issue until the pumps are replaced.

Considering there are only two pumps, the firm pumping capacity of this structure would be 3.0 MGD with one pump out of service. With that, the available pumping capacity is considered to be inadequate when compared to max month and peak flows for both current and future conditions at the Shoal Creek Plant. The ability to divert peak flows to the flow equalization basin does alleviate the need for this pumping structure to be able to handle all the flow during peak conditions. However, considering the condition of the existing pumps and the current capacity relative to design flow conditions, improvements to the facility will need to be made to allow for continued reliable operation. Greater pumping capacity will certainly be needed if Shoal Creek begins to treat flow from Crowder and flow from Crowder is rerouted to enter the Shoal Creek Plant ahead of the raw sewage pumps.

### **7.1.5      *Inlet Structure***

Wastewater pumped from the raw sewage pumping structure enters the west channel in the inlet structure, which contains multiple non-mechanical bar screens. As such, screens are manually cleaned, and waste is disposed of in a nearby dumpster. Valving located near the structure allows for flow from the 16" pressure sewer from Crowder to either be taken directly to the UV structure at the end of the Shoal Creek Plant or to be diverted into the eastern channel of the inlet structure after the bar screens. The former is how the facilities are normally operated. Further, both the east and west clarifiers send return-activated sludge to the east channel of the inlet structure. RAS going into the inlet structure is measured using a 9" Parshall Flume. Flow to either of the oxidation ditches can be shut off by slide gates located on the discharge end of the inlet structure channels. From the inlet structure, wastewater gravity flows to the oxidation ditches through 24" pipes.

Plant personnel have indicated that the slide gates at the end of the channels are hard to operate and could benefit from replacement. It was also noted that flow does not equalize well between the two channels in the inlet structure. This may be because the location of inflow from Crowder and/or the separation of influent and RAS channels causes unequal distribution of flow. While this is not necessarily an issue for current conditions, the need for additional facilities for treating flow from Crowder will require improvements for better control of the flow split between treatment trains.

Considering that all flow passes through the mechanical bar screen at the flow equalization basin, except for flow from Crowder, there appears to be a significant amount of debris that is getting caught on the bar screens in the inlet structure. According to plant personnel, this may be because septic haulers dump just upstream of the raw sewage pumps. As such, debris from these haulers is likely not only causing excessive buildup on the screens but is also being transferred through the raw sewage pumps. This creates the potential to damage and reduce the life of the pumps. For this reason, the current situation concerning the location or the outright ability of septic haulers to dump at the plant should be evaluated for possible revision to lessen potential adverse impacts on plant operations.

The bar screens themselves are also in fairly poor condition and should likely be replaced if screening at the inlet structure continues to be needed. Finally, personnel have indicated that there is significant sediment and grit buildup in the channels. As such, the implementation of improvements to remove grit from the waste stream and prevent it from migrating further into the plant is recommended.

### **7.1.6      *Oxidation Ditches***

Secondary treatment of the wastewater is provided by two oxidation ditches, each equipped with four 50 HP Hydro Rotors to provide aeration and mixing of the influent wastewater and RAS. The rotors are mounted on revolving horizontal shafts which are partially submerged in the wastewater. Three of the rotors in each ditch provide firm capacity while the fourth is a standby for emergency cases and maintenance. According to plant personnel, running two rotors does not provide sufficient oxidation, and running a fourth rotor leads to a higher solids concentration in the flow exiting the ditch. The higher concentrations with four rotors running are likely because the fourth rotor stirs up solids that have settled in the bottom of the ditches.

The rotors can vary in speed from 54-66 rpm as necessary and have a minimum and maximum submergence of 8" and 13", respectively. Each ditch is approximately 290' long by 44' wide, with oval ends. The channels are 16' in total depth with a 14' water depth which provides a volume of 1.5 MG per ditch and a total volume of 3.0 MG. Based on the current flows of the plant, the operators are able to facilitate treatment with only one of the oxidation ditches in use. Effluent from the ditches is discharged through rotating weirs to the clarifier splitter box. The weirs of both ditches have been replaced previously and work well.

MDNR design guidelines provide recommended loading ranges for activated sludge processes (*Wastewater Guidelines and Standards Document*, Table 9-6). For an oxidation ditch, it is recommended that the volumetric BOD<sub>5</sub> loading be in the range of 5-30 lb BOD<sub>5</sub>/day/1000 cf and the hydraulic retention time (V/Q) in the range of 8-36 hours. With a combined total of 3.0 MG between the two ditches, the operating range of the oxidation ditches is 2,005 lb BOD<sub>5</sub>/day to 12,030 lb BOD<sub>5</sub>/day and 2.0 MGD to 9.0 MGD, based on the described MDNR guidelines. At the design flow of 3.0 MGD, the hydraulic retention time is 24 hours.

Evaluating daily flows for the Shoal Creek Plant from January 2020 through December 2022, no instances were recorded that were greater than 9.0 MGD, meaning that the hydraulic retention time was never less than the minimum eight hours. Further, over this period, there was only one instance where BOD loading exceeded the maximum load established per MDNR guidelines of 12,030 lb BOD<sub>5</sub>/day. A value of 12,084 lb BOD<sub>5</sub>/day was recorded on January 3, 2020, barely exceeding the upper threshold value established by the guidelines. The next highest day for BOD loading had a value of 8,411 lb BOD<sub>5</sub>/day, below 12,030 lb BOD<sub>5</sub>/day. Further, the current maximum monthly loading was 5,937 lb BOD<sub>5</sub>/day which is also well below the capacity of the ditches. As such, the oxidation ditches have adequate capacity for current conditions treating flows going to the Shoal Creek Plant.



For future conditions reflecting only treating Shoal Creek flows, the existing ditches are still adequate. While the estimated peak value of 14,622 lb BOD<sub>5</sub>/day from Table 6-1 exceeds the plant capacity, it still reflects only a singular peak loading day. The maximum monthly loading is 7,183 lb BOD<sub>5</sub>/day which is a more reasonable design criteria and does not exceed the plant capacity. The 9.0 MGD hydraulic capacity of the ditches is also greater than the future flows presented in Table 6-1.

Using the same values established previously by MDNR guidelines for BOD<sub>5</sub> loading rate and hydraulic retention time, current and future conditions at the Shoal Creek Plant when it treats all of Crowder's flow must also be considered relative to the criteria established in Table 6-1. Based on these values, the existing ditches would likely struggle under current and future peak BOD<sub>5</sub> loading conditions if also treating flow from Crowder. Hydraulically, the current capacity of the ditches meets maximum month flows but cannot handle peak flows for both current and future conditions. Considering the use of flow equalization, the hydraulic capacity of the ditches is adequate. However, additional capacity would be needed to be able to consistently and effectively treat the additional BOD loads from the Crowder Plant.

The oxidation ditches must also be evaluated based on the ability of the rotors to supply oxygen relative to the oxygen required for the proper treatment of the wastewater. Considering six rotors each having an effective length of 18', an average submergence depth of 13", and a speed of 66 rpm, each rotor can supply 126 lbs of O<sub>2</sub> per hour (per the O&M manual for the rotors) to provide a total firm capacity of 756 lbs of O<sub>2</sub> per hour.

To calculate the actual oxygen required (AOR) for BOD<sub>5</sub> removal, it is assumed that 1.4 lbs of O<sub>2</sub> per lb of influent BOD<sub>5</sub> is required considering the maximum monthly BOD<sub>5</sub> load. Similarly, it is assumed that 4.6 lbs of O<sub>2</sub> per lb of influent NH<sub>3</sub> is also required for ammonia removal. Since influent NH<sub>3</sub> concentration data is not available, NH<sub>3</sub> loadings will be based on an assumed concentration of 30 mg/L and the respective maximum monthly design flow. Together, the oxygen required for the removal of BOD<sub>5</sub> and NH<sub>3</sub> gives the AOR. Further, the equation below is used to calculate the standard oxygen required (SOR) for the various design conditions.

$$SOR = \frac{(AOR)(C_s)}{(\alpha)(\theta^{(T-20)})[(\beta)(C_{sc} - C_L)]}$$

Where: SOR is Standard Oxygen Requirement  
AOR is Actual Oxygen Requirement  
 $\alpha$  (0.85) is the Oxygen Transfer Correction Factor  
 $\beta$  (0.95) is the Salinity – Surface Tension Correction Factor  
 $\theta$  (1.024) is the Oxygen Transfer Coefficient  
T (12) is Degrees Celsius Temperature of Water  
 $C_{sc}$  (10.5) is the Dissolved Oxygen Concentration at 40% depth at the site elevation and temperature in mg/L  
 $C_s$  (9.02) is the Dissolved Oxygen Saturation Concentration in clean water at 20 Degrees C in mg/L  
 $C_L$  (2.00) is the Operating Dissolved Oxygen Concentration in mg/L

Table 7-1 provides the AOR and SOR for current and future design conditions.

**Table 7-1. Standard Oxygen Required at Design Conditions**

|                       | Shoal Creek    |                | Shoal Creek and Crowder |                |
|-----------------------|----------------|----------------|-------------------------|----------------|
|                       | AOR<br>(lb/hr) | SOR<br>(lb/hr) | AOR<br>(lb/hr)          | SOR<br>(lb/hr) |
| <b>Current (2023)</b> | 557            | 885            | 685                     | 1088           |
| <b>Future (2043)</b>  | 674            | 1071           | 829                     | 1317           |

Comparing the firm capacity of the existing rotors to the calculated SOR values, the ability of the current facilities to supply oxygen for proper treatment is inadequate for all design conditions. As such, additional oxygen supply capabilities are recommended.

Plant personnel have indicated that the bearings for the rotor shafts have experienced failures over the years. Due to this, the rotor shafts have bent, and this has caused the motor to move while in operation. The facility has increased the size of the shafts when they have needed to be replaced, but this seems to have only exacerbated the issues and caused more rotor shaft failures. Considering this, the rotors appear to need major repairs, if not replacement.

It was also noted that 6" drain lines from the ditches to the diversion splitter manhole take quite some time to drain the ditches. Upsizing these lines is something that should be considered.

### **7.1.7 Clarifier Flow Splitter Box**

The clarifier flow splitter box receives effluent from both oxidation ditches and directs flow to either or both secondary clarifiers via 24" pipes. Each channel of the splitter box is fitted with a slide gate to be able to isolate the clarifiers and weirs to control the flow split between the clarifiers. Flow exits the splitter box through 24" pipes to go to the clarifiers. No issues are reported with the existing clarifier flow splitter box.

### **7.1.8 Secondary Clarifiers**

After exiting the clarifier splitter box, wastewater enters the secondary clarifiers, each of which is 65' in diameter and has a side water depth of 12' and a total depth of 13.75' around the perimeter. The clarifiers are full-bridge peripheral feed, center flow clarifiers. Wastewater enters the clarifiers through the side skirts which help reduce the velocity of the incoming flow. Biomass settles at the bottom of the clarifier and the treated effluent discharges at the center of the clarifier through a 24" pipe to go to the UV disinfection system.

Based on MDNR design guidelines (*Wastewater Guidelines and Standards Document*, Table 7-3), the surface overflow rate (SOR) of the clarifiers at design peak hourly flow should be less than 1,000 gpd/ft<sup>2</sup>. Each clarifier has a surface area of 3,318.3 for a total area of 6,636.6 ft<sup>2</sup>. Based on a maximum SOR of 1,000 gpd/ft<sup>2</sup>, each clarifier can handle up to 3.32 MGD and both clarifiers together have a capacity of approximately 6.64 MGD.

Comparing the hydraulic capacity of the clarifiers to the design flows established in Table 6-1, the existing facilities do not have adequate capacity for the future Shoal Creek peak flow as well as current and future peak flows if also treating flow from Crowder. While the existing facilities may be able to accommodate future peak flows for just the Shoal Creek Plant when accounting for flow equalization, an increase in hydraulic capacity would be needed if Shoal Creek were to start treating flow from the Crowder Plant.

The solids loading rate through the clarifiers must also be considered for both current and future conditions. MDNR guidelines indicate that the peak solids loading rate should not exceed 40 lb/day/ft<sup>2</sup>. Peak solids loading rates can be calculated using the formula below.

$$Peak\ SLR\ \left(\frac{lb/sf}{day}\right) = \frac{\left((PF\ (MGD) + 1.5 \times ADF\ (MGD)) \times MLSS\ Conc.\ \left(\frac{mg}{L}\right) \times 8.345\right)}{Clarifier\ Surface\ Area\ (sf)}$$

Based on an average MLSS concentration of 3,000 mg/l and the respective design flows, Table 7-2 provides calculated peak solids loading rates for the various design conditions.

**Table 7-2. Peak Solids Loading Rates**

|                                     | Shoal Creek | Shoal Creek and Crowder |
|-------------------------------------|-------------|-------------------------|
| <b>Current Peak SLR (lb/day/sf)</b> | 34          | 58                      |
| <b>Future Peak SLR (lb/day/sf)</b>  | 42          | 70                      |

Based on the values from Table 7-2, the existing clarifiers have adequate solids loading capacity at current and future conditions for Shoal Creek. Even though the future SLR of 42 lb/day/ft<sup>2</sup> exceeds the MDNR value, it does so just barely. As such, the existing facilities are thought to be accurate but will be at capacity for future Shoal Creek conditions. However, additional clarifier capacity will be needed for the Shoal Creek Plant to treat both the current and future flows from Crowder.

The weir loading rate must be evaluated as well. With a side length of 25' for the square weir in each clarifier, each clarifier has a weir length of 100 ft for a total of 200 ft of weir between the two clarifiers. Per MDNR guidelines, the maximum weir loading rate of 30,000 gpd/ft is allowed. Considering the peak flows for the various design conditions, Table 7-3 provides the respective weir loading rates.

**Table 7-3. Weir Loading Rates**

|                                 | Shoal Creek | Shoal Creek and Crowder |
|---------------------------------|-------------|-------------------------|
| <b>Current Weir LR (gpd/ft)</b> | 27500       | 52500                   |
| <b>Future Weir LR (gpd/ft)</b>  | 33275       | 63525                   |

Based on the values presented in Table 7-3, the existing clarifier weirs only have adequate length for current peak flows treating only flow for Shoal Creek. To accommodate future peak flows and both current and future flows from Crowder, additional weir length is needed.

The skirts on both of the clarifiers were replaced in 2009 as the then-existing skirts were deteriorating. The same is now also true for the current skirts. In addition to that, the current peripheral feed, center flow type clarifiers are an older type of design. Installation of new equipment that provides easier operation and maintenance, replacing the existing would be a more beneficial improvement than just replacing the existing skirts again. The replacement of the skirts is needed at a minimum if the existing clarifier equipment is not replaced entirely as part of larger improvements to the existing clarifier facilities.

### **7.1.9      *Return Activated and Waste Activated Sludge Pump Station***

The RAS/WAS Pump Station consists of two pumps for pulling return and waste-activated sludge from the clarifiers. Each pump sits in a 30" ductile iron pipe that acts as a wet well and connects to a 10" sludge line from each clarifier. A 10" line with a plug valve interconnects the two 30" DIP wet wells. When the valve is shut, each pump can only pull from its respective clarifier. Opening the valve allows for a pump to pull from either clarifier. Return sludge is pumped back to the inlet structure through a 12" line. RAS flow is measured by a 9" Parshall flume. Wasted sludge is pumped via a 6" line to the sludge storage facilities. The sludge pumps are rated at 500 gpm.

Plant personnel have indicated that they have limited control over pulling sludge from one clarifier or the other. As such, personnel have difficulty removing equal amounts of sludge from each clarifier. Considering the configuration of the facility, it is likely that this is related to the plug valve intended to allow for the separation of the two wet wells. It was also noted that the existing valves are difficult to operate and need replacement. It is recommended that the existing valves be replaced as well as additional valves installed as needed to provide improved operation of the facilities.

Plant personnel have also indicated that the existing sludge pumps have long since passed the end of their useful life. The pumps require regular maintenance and due to their age, replacement parts are no longer manufactured. Therefore, parts are difficult to get at best or must be manufactured. Either way, this creates long lead times for pump repairs leading to prolonged periods of pumps being out of service. Considering the issues with the pumps, it is recommended that the sludge pumps be replaced at a minimum and improvements be made to the station to allow the facility to continue to operate effectively in the future.

### **7.1.10      *Sludge Storage and Disposal***

Sludge that is not returned to the inlet structure is wasted to the sludge storage facilities. Sludge storage consists of one 80' diameter by 14' deep tank and two 55' diameter by 11' deep storage tanks. All sludge initially wasted from the clarifiers is pumped to the 80' storage tank via a 6" line. To make it to the 55' diameter tanks, the sludge is pumped from the 80' tank via sludge pumps in a wet well located west of the 80' diameter tank.

All three sludge storage tanks have floating aerators to provide aerobic digestion of the sludge. The supernatant that is decanted from the 80' diameter tank flows back to the nearby influent diversion splitter manhole. Decant from the two 55' diameter tanks is pumped back into the plant

via a nearby pump station. For disposal, sludge is pumped from the tanks and hauled to fields for land application.

Assuming two feet of freeboard, the 80' diameter tank has approximately 451,240 gallons of storage capacity. Similarly, for the 55' diameter tanks, each would have approximately 160,000 gallons of storage capacity for a total of 320,000 gallons. All three tanks together provide approximately 771,240 gallons of sludge storage. Based on sludge data from 2020 to 2022, the Shoal Creek Plant averages approximately 134 dry tons of sludge per year. The Crowder Plant averages approximately 110 dry tons of sludge per year. Assuming an average solids concentration of 2.5%, this equates to approximately 1,285,370 gallons of sludge annually for the Shoal Creek Plant and 1,055,150 gallons of sludge annually for the Crowder Plant. Applying the same 21% increase in flow for future conditions to the sludge production gives a future Shoal Creek value of 1,555,300 gallons per year and Crowder a value of 1,276,730 gallons per year.

Considering the available sludge storage volume at the Shoal Creek Plant, the existing facilities provide approximately 219 days of storage for current Shoal Creek flows and 181 days for future Shoal Creek conditions. Accounting for Crowder's flows as well, the current storage capacity of the Shoal Creek tanks would provide approximately 120 days of sludge storage at current flows and 99 days at future conditions. Per MDNR design guidelines, a minimum range of 120 to 180 days of sludge storage should be provided for the design life of the facility. As such, the existing facilities at the Shoal Creek Plant are adequate for current and future conditions when only treating Shoal Creek flows, but storage providing a minimal additional 21 days would be needed to accommodate future flows from Crowder.

The tanks themselves are in good condition. The aerators in the tanks work well but are nearing the end of their useful life and could benefit from replacement. Similarly, the decant valves work well but could be replaced in order to maintain proper functionality going into the future.

#### **7.1.11 UV Disinfection**

Disinfection is accomplished using ultraviolet disinfection equipment. The effluent flows to a Parshall flume structure for metering. The structure has two 12" wide flumes, one of which measures flow from the clarifiers of the Shoal Creek WWTP and one that measures flow from the Crowder WWTP. Ultrasonic level transducers measure the depth in each channel. Combined flows from both WWTPs are disinfected in a single channel. There are two banks of UV bulbs, each rated to disinfect up to 3 MGD which provides a total capacity of 6.0 MGD. Each bank of UV lights is either fully on or fully off and does not vary with the incoming flow. At the end of the UV



disinfection system, there is a modulated weir gate to vary discharge based on the flow through the equipment.

The 6.0 MGD capacity of the existing UV facilities is less than that of the future Shoal Creek peak flows and the combined peak flows for Shoal Creek and Crowder, both current and future. While peak flow equalization will allow the existing facilities to be adequate for future Shoal Creek flows, it is likely that additional capacity will be needed to handle the additional flow from Crowder.

The existing UV equipment is in good working condition, though it is starting to show its age having been almost 20 years since it was installed. Plant personnel have indicated that equipment set at an angle would improve the ease of maintenance compared to the existing equipment which is set horizontally. However, the dimensions of the existing channel will not allow for the installation of non-horizontal equipment. As such, new channels would have to be constructed if different equipment were to be installed.

Replacing the existing equipment is not an immediate need but is something that should be planned for in the future. If, however, Shoal Creek treating Crowder's flow is pursued, replacement of the UV facilities should be implemented alongside other improvements to the plant.

#### **7.1.12     *Electrical and Back-Up Power Facilities***

Back-up power to the Shoal Creek Plant is currently provided by a 400 kW diesel generator. Plant personnel have indicated that the UV equipment is not tied into the generator and is likely because the existing generator does not have enough capacity to accommodate those facilities. Considering that it is only the UV structure that may not be on backup power, additional generator capacity is not thought to be necessary. However, with the construction of improvements to accommodate flow from Crowder, additional backup power capacity will be needed.

Personnel have also noted that the generator at the Shoal Creek Plant does not have an automatic transfer switch. As such, in the event of a power failure, personnel must travel out to the generator to switch over to backup power. Manual operation of the transfer switch is also a safety concern for personnel regarding the potential for arc flash. Therefore, the installation of an automatic transfer switch is highly recommended to eliminate the need for manual operation.

### 7.1.13 Process Evaluation Summary

Table 7-4 provides a summary of the evaluation of each process described previously in this section.

**Table 7-4. Shoal Creek Process Evaluation Summary**

| Component                                    | Improvement Needed                                                      | Reason For Improvement                                                                                                                                                       | Improvement Priority                              |
|----------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Crowder Lift Station</b>                  | Additional pumping capacity and renovation of the lift station          | The current pumping capacity is not adequate for future flow conditions. The existing facilities are nearing the end of their useful life and need upgrades.                 | Medium Priority                                   |
| <b>Flow Equalization Basin - Shoal Creek</b> | Additional equipment for better operational control                     | The current setup turns pumps on too early filling up the basin when the plant still has treatment capacity. As such, personnel turn on pumps manually.                      | Low Priority                                      |
|                                              | Relocate Crowder discharge point                                        | If Shoal Creek treats wastewater from Crowder, the current location of discharge would not allow Crowder's flow to be screened.                                              | High Priority (if planning to treat Crowder flow) |
| <b>Flow Equalization Basin - Crowder</b>     | None                                                                    | -                                                                                                                                                                            | -                                                 |
| <b>Diversion Splitter Manhole</b>            | None                                                                    | -                                                                                                                                                                            | -                                                 |
| <b>Raw Sewage Pumping Structure</b>          | Pump replacement with increased capacity and renovation of the facility | Existing pumps are old, requiring frequent and time-consuming maintenance. Parts are difficult to find. Pumps have inadequate firm capacity for most design flow conditions. | High Priority                                     |

| Component                | Improvement Needed                                         | Reason For Improvement                                                                                                                                                                                                                                                                                                                                   | Improvement Priority                                   |
|--------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Inlet Structure</b>   | Replace slide gates and bar screens.                       | Existing gates are hard to operate. Existing screens are in poor condition.                                                                                                                                                                                                                                                                              | Medium Priority                                        |
|                          | Revise allowances for septic haulers dumping at the plant. | The location of dumping creates the potential for solids to be transferred through pumps and into the plant.                                                                                                                                                                                                                                             | Medium Priority                                        |
|                          | Construction of flow splitter box structure.               | The construction of additional treatment facilities to accommodate flow from Crowder requires a structure to be constructed to better control flow distribution between trains.                                                                                                                                                                          | High Priority (if planning to treat flow from Crowder) |
|                          | Construction of grit removal facility                      | A new facility would greatly reduce the amount of solids that make their way into the plant which increases treatment effectiveness and reduces maintenance.                                                                                                                                                                                             | Low Priority                                           |
| <b>Oxidation Ditches</b> | Replace existing Hydro Rotors with new equipment           | The shafts on the existing rotors are frequently failing, even after attempted repairs. Maintenance of the existing facilities has become a constant struggle to keep the rotors in operation. Further, the existing rotors are unable to provide adequate oxygen for the proper treatment of wastewater, especially when considering future conditions. | High Priority                                          |
|                          | Construct additional oxidation ditch capacity              | The existing facilities do not have adequate volumetric BOD loading capacity and hydraulic retention time to accommodate untreated flow from Crowder.                                                                                                                                                                                                    | High Priority (if planning to treat Crowder flow)      |
|                          | Increase the size of the drain line from oxidation ditches | The current 6" drain line takes a long time to drain the ditches, increasing the downtime during maintenance.                                                                                                                                                                                                                                            | Low Priority                                           |

| Component                                             | Improvement Needed                                   | Reason For Improvement                                                                                                                                                                                                                                                                                        | Improvement Priority                              |
|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Clarifier Flow Splitter Box</b>                    | None                                                 | -                                                                                                                                                                                                                                                                                                             | -                                                 |
| <b>Secondary Clarifiers</b>                           | Install new clarifier equipment                      | The existing skirts are deteriorating again. Further, replacing the existing equipment with that of a different design would be beneficial to overall operation and maintenance. New equipment would also provide additional weir length to allow the two basins to be adequate for future Shoal Creek flows. | High Priority                                     |
|                                                       | Construct additional clarifier capacity              | The existing clarifiers do not have adequate capacity to meet Surface Overflow Rate and Peak Solids Loading Rate criteria when treating flow from Crowder.                                                                                                                                                    | High Priority (if planning to treat Crowder flow) |
| <b>Return and Waste Activated Sludge Pump Station</b> | Replace existing pumps and renovate the pump station | Existing valves are difficult to operate. The system cannot currently isolate which clarifier sludge is wasted from. Existing pumps require constant maintenance and repairs with parts having to be fabricated. As such, pumps are constantly out of service.                                                | High Priority                                     |
| <b>Sludge Storage</b>                                 | Construct additional sludge storage capacity         | The existing sludge storage capacity is not adequate to accommodate sludge generated by treating flow from Crowder.                                                                                                                                                                                           | High Priority (if planning to treat Crowder flow) |
|                                                       | Replace decant valving                               | The existing decanting valves are deteriorating, and replacement should be considered.                                                                                                                                                                                                                        | Low Priority                                      |
|                                                       | Replace floating aerators                            | The existing aerators function properly, but due to their age should be expected to need replacement in the near future.                                                                                                                                                                                      | Low Priority                                      |
| <b>UV Disinfection</b>                                | Replace existing UV equipment                        | The existing equipment is nearing the age where replacement should be considered.                                                                                                                                                                                                                             | Low Priority                                      |
|                                                       | Construct additional UV disinfection capacity        | The existing facilities do not have adequate capacity for treating future flows from Crowder.                                                                                                                                                                                                                 | High Priority (if planning to treat Crowder flow) |

| Component                    | Improvement Needed                                          | Reason For Improvement                                                                                                                         | Improvement Priority                              |
|------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Electrical Facilities</b> | Provide additional backup power                             | Backup power is currently adequate. However, more will be required to accommodate the additional facilities needed to treat flow from Crowder. | High Priority (if planning to treat Crowder flow) |
|                              | Install automatic transfer switch to the existing generator | Without an ATS, the use of backup power requires manual operation.                                                                             | High Priority                                     |

## 7.2 Facility Operation and Performance

In general, most facilities at the Shoal Creek Plant are original from when the plant was built in the mid-1980s. As such, a majority of the facilities have passed the end of their useful life, causing them to require frequent maintenance and repairs. Considering the age of the facilities, it is common for replacement parts to be difficult to find, if they can be found at all. This therefore requires parts to often be fabricated and custom-made. All of this leads to increased operation and maintenance costs in the form of additional materials and labor required to keep the plant operating properly.

Table 7-5 provides a summary of DMR effluent data from January 2020 to December 2022 for pollutants with established effluent limitations for Outfall #001 and #IP5 (discharge from the Shoal Creek Plant).

**Table 7-5. Discharge Monitoring Report (DMR) Summary**

|                            | Outfall #001              |                      |              |              |              |                  |               | #IP5                       |               |
|----------------------------|---------------------------|----------------------|--------------|--------------|--------------|------------------|---------------|----------------------------|---------------|
|                            | NH <sub>3</sub><br>(mg/l) | E. coli<br>(#/100ml) | Se<br>(ug/l) | Fe<br>(ug/l) | Cd<br>(ug/l) | Phenol<br>(ug/l) | O&G<br>(mg/l) | BOD <sub>5</sub><br>(mg/l) | TSS<br>(mg/l) |
| <b>Daily Max (High)</b>    | 7.3                       | -                    | 1            | 61.8         | 0.41         | 300              | 14.8          | -                          | -             |
| <b>Daily Max (Avg.)</b>    | 0.35                      | -                    | 0.89         | 51.6         | 0.28         | 62.5             | 5.8           | -                          | -             |
| <b>Weekly Avg. (High)</b>  | -                         | 414                  | -            | -            | -            | -                | -             | 18.9                       | 20.6          |
| <b>Weekly Avg. (Avg.)</b>  | -                         | 63.1                 | -            | -            | -            | -                | -             | 3.3                        | 4.8           |
| <b>Monthly Avg. (High)</b> | 3.7                       | 35.2                 | 1            | 61.8         | 0.41         | 62.5             | 14.8          | 6.1                        | 4.9           |
| <b>Monthly Avg. (Avg.)</b> | 0.26                      | 12.9                 | 0.89         | 51.6         | 0.28         | 30.0             | 5.8           | 2                          | 3.7           |

A review of Discharge Monitoring Reports (DMRs) shows the following exceedances from the period of 2020-2022:

- Cadmium Monthly Average: December 2021 (value of 0.41 mg/l exceeded limit of 0.3 mg/l)
- BOD<sub>5</sub> Percent Removal: April 2021 (value of 75%, not meeting limit of 85%), April 2022 (value of 77%, not meeting limit of 85%)
- Ammonia Monthly Average: December 2021 (value of 3.7 mg/l exceeded limit of 2.2 mg/l)
- TSS Percent Removal: April 2022 (value of 70%, not meeting limit of 85%), December 2022 (value of 77%, not meeting limit of 85%)

Considering these violations over the past three years, the Shoal Creek Plant has essentially had minimal issues meeting the established permit limits. The cadmium and ammonia violations appear to be isolated incidents, as do the BOD and TSS removal violations. However, the BOD and TSS removal violations appear to be indicative of low influent concentrations, making the percent removal not a concern as the facility still met effluent concentration limits. A copy of the most recent MDNR inspection report of the Shoal Creek Plant is in Appendix D.



## **8.0 WASTEWATER TREATMENT ALTERNATIVES**

In order to accommodate the year 2043 conditions described previously, various alternatives are outlined in this section. These alternatives include regionalization, land application, and renovation and expansion improvements to the existing wastewater treatment facility. For the consideration of improvements to the existing facilities, the future conditions presented in Table 6-1 will be used as the basis for design.

### **8.1 No-Action Alternative**

MDNR requires a do-nothing alternative to be considered [10 CSR 20-8.110(5)(D)]. This alternative presents the option for Neosho to not pursue any improvements to the existing Shoal Creek Plant. Considering the condition of the existing facilities as well as their capacity to accommodate future Shoal Creek flows and loads in some respects, a no-action alternative is not viable. Further, a no-action alternative is certainly not an option should the City wish to rely on the Shoal Creek facilities to treat flow from Crowder as additional facilities would need to be constructed.

### **8.2 Flow and Waste Reduction**

Flow reduction measures are usually directed toward removing “excessive” infiltration/inflow from the collection system. As detailed in Section 5.1.4, flow reduction measures directed towards removing “excessive” infiltration/inflow from the collection system could have an impact on reducing flows to the WWTP. Although this report does recommend that the City explore I&I reduction measures, those measures alone cannot be counted on to sufficiently reduce the flows to a level where the current plant can effectively handle design flow conditions. Flow reduction is too long of a process and the results are too unpredictable to postpone improvements for more immediate needs. Further, a reduction in I&I does nothing to reduce the organic loading at the plant. To accommodate the organic loads from Crowder, additional facilities are needed. Finally, the condition of much of the existing equipment at the Shoal Creek Plant is such that it needs replacement. All that said, flow and waste reduction alone will not be a reasonable alternative.

### **8.3 Optimum Operation of Existing Facilities**

Optimizing the operation of the existing facility does not address the fact that most of the equipment has passed the end of its useful life and needs replacement. Further, the existing facilities cannot be optimized to be able to accommodate the additional flows and loads from the Crowder Plant, should the option be pursued.

### **8.4 Regionalization Alternative**

Regionalization involves sharing physical infrastructure in a defined geographic area when a political or private entity provides wastewater service by means of physically connecting existing and future communities to a regional or central plan. When multiple entities work together, each utility often benefits from reduced capital and operational costs, and increased economies of scale.

The City of Joplin is the nearest city with even the potential to be able to accommodate Neosho's wastewater flows. Therefore, it is theoretically possible to pump Neosho's wastewater from the location of the current WWTP to the Joplin Shoal Creek WWTP, and then contract with the City of Joplin to treat the wastewater. To do so would require the construction of at least one major lift station and approximately 112,000 lineal feet of pressure sewer. Assuming a flow rate of 7.3 MGD (5,070 gpm) must be conveyed to Joplin to accommodate Neosho's future peak flows with higher flows being attenuated by flow equalization, it is estimated that a minimum pressure sewer diameter of 24" would be required. Assuming 24" PVC pressure sewer costs approximately \$350/LF installed, the pipe alone would cost \$39,200,000. This illustrates that the cost of regionalization is simply not economically feasible, especially when compared to the costs of other alternatives discussed in the report.

## 8.5 Land Application

Surface land application is defined as the application of wastewater to the land surface at a controlled rate. Surface land application benefits the crop and soil and eliminates a discharge to the waters of the state. A land application system typically consists of three major components including a waste stabilization pond to provide primary treatment, a storage basin to retain wastewater flows when inclement weather conditions prevent irrigation operations, and an irrigation system. Both treatment and storage can be accomplished in a single-cell lagoon having varied operating depths. Irrigation system components typically include an irrigation pump and building along with a sprinkler system, such as a center pivot irrigator.

Given the size of Neosho, large tracts of land would be needed to accommodate the necessary storage and irrigation rates. Assuming a minimum volume to provide 75 days of storage in a new basin for the anticipated 4.0 MGD flows at future average day conditions, approximately 300 million gallons of usable storage would be required. The primary treatment lagoon must also be sized such that the surface area provides treatment for BOD<sub>5</sub> loadings less than 34 lb/day/acre. At the future estimated average day BOD<sub>5</sub> loading rate of 4,737 lb/day for Shoal Creek and Crowder, a minimum of 197.5 acres of lagoon surface area at the three-foot operating depth will be required. At this area, this roughly equates to an operating depth of 5 feet to achieve 300 million gallons of usable storage. Accounting for two feet of depth below the minimum operating level for seal protection and sludge storage as well as three feet of freeboard until the emergency spillway and another foot above that, a total estimated basin depth of 11 feet is expected.

In addition to the minimum size of the treatment and storage lagoon, maximum irrigation rates must also be considered. It is important that the daily application of water does not result in runoff from the field, therefore it is appropriate to limit the application rate to less than 0.5 inches per day (and less than 24 inches per year) by providing adequate irrigation area. Based on an average future daily flow of 4.0 MGD for both Shoal Creek and Crowder flows, this equates to approximately 1.46 billion gallons of wastewater annually. Based on that volume, it is reasonable to assume that at least 2,240 acres would be irrigated, resulting in a yearly application of up to 24 inches.

Considering only the estimated size of the storage/treatment lagoon and the irrigated area required, the facilities needed are simply too large for land application to be a practical alternative.

## **8.6 Improvements to Existing Facilities**

Another option is to retain as much of the existing facilities as possible while implementing improvements necessary to address deficiencies described previously in this report. This section describes the various improvements needed for the existing facilities to meet the projected future demands. For facilities where further modifications are required to accommodate treating flow from the Crowder Plant, additional discussion and construction costs are provided.

### **8.6.1 Crowder Lift Station**

#### **Lift Station Renovation – Medium Priority**

The Crowder Lift Station is a key facility and therefore, it is important that it remains in proper operating condition. While the existing pumping capacity appears to be adequate for future average and max month flows, the condition of the Crowder Lift Station is such that it is nearing time for improvements.

In general, the proposed improvements would involve constructing a new lift station to replace the existing one. The existing vertical turbine pumps would be replaced with new submersible pumps and controls. Submersible pumps work better in raw sewage conditions than the existing pumps, providing for operations that are more efficient and that require less maintenance. The new pumps would be equipped with VFDs to allow better control of operations. More specifically, this will allow for more efficient use of the existing flow equalization facilities, especially if Shoal Creek were to treat flow from Crowder. For instance, if the Shoal Creek plant is seeing too much flow, the pumps at the Crowder Lift Station could be slowed to fill up the equalization basins at Crowder more quickly and not fill up the basin at Shoal Creek as quickly. To provide additional pumping capacity, it is estimated that two 130-HP pumps, each capable of producing 2,300 gpm at 130 TDH would be installed. To accommodate the larger pumps, it is assumed that a new 10' wet well will be installed along with a new valve pit and valving.

Considering the condition of the 16" pressure sewer is unknown, the line should be inspected prior to implementing the improvements to the Crowder lift station. If there are concerns about the integrity of the existing pressure sewer and its ability to handle increased pressures from larger pumps, these should be addressed before new facilities go into operation. While the cost for inspecting the pressure sewer is included in the provided cost estimate, a cost for any repairs has not been included as the extent of repairs, if any, cannot be estimated.

Table 8-1 provides a cost estimate for constructing the described improvements to the Crowder Lift Station.

**Table 8-1. Cost Estimate for Crowder Lift Station Improvements**

| ITEM | QUANTITY | UNIT | DESCRIPTION                                | UNIT PRICE    | TOTAL                  |
|------|----------|------|--------------------------------------------|---------------|------------------------|
| 1    | 1        | LS   | Submersible Pumps                          | \$ 230,000.00 | \$ 230,000.00          |
| 2    | 1        | LS   | Pump Controls                              | \$ 130,000.00 | \$ 130,000.00          |
| 3    | 1        | LS   | Removal of Existing Improvements           | \$ 10,000.00  | \$ 10,000.00           |
| 4    | 1        | LS   | 10' Dia. WW, Valve Pit, Piping and Valving | \$ 300,000.00 | \$ 300,000.00          |
| 5    | 1        | LS   | Jib Crane                                  | \$ 25,000.00  | \$ 25,000.00           |
| 6    | 1        | LS   | Connection to Ex. 24" Dia. Gravity Line    | \$ 15,000.00  | \$ 15,000.00           |
| 7    | 1        | LS   | Connection to Ex. 16" Dia. Pressure Sewer  | \$ 12,000.00  | \$ 12,000.00           |
| 8    | 1        | LS   | Connection to Flow Equalization Basin      | \$ 15,000.00  | \$ 15,000.00           |
| 9    | 1        | LS   | Magnetic Flow Meter and Pit                | \$ 40,000.00  | \$ 40,000.00           |
| 10   | 1        | LS   | Misc. Site Piping                          | \$ 20,000.00  | \$ 20,000.00           |
| 11   | 1        | LS   | Surface Restoration and Misc. Site Work    | \$ 20,000.00  | \$ 20,000.00           |
| 12   | 1        | LS   | 350 kW Generator                           | \$ 225,000.00 | \$ 225,000.00          |
| 13   | 1        | LS   | Electrical                                 | \$ 50,000.00  | \$ 50,000.00           |
|      |          |      | <b>Construction Cost Estimate</b>          |               | <b>\$ 1,092,000.00</b> |



### 8.6.2 Flow Equalization Basin

#### **Peak Flow Pump Control Improvements – Low Priority**

The pumps at the Shoal Creek flow equalization basin currently operate via a level transducer and float switch to control when the pumps are turned on and off. In the current configuration, the pumps turn on too soon, diverting flow to the basin when the Shoal Creek Plant could still accommodate more. As such, plant operating personnel operate the pumps manually. To provide better control and operations of these facilities, variable frequency drives should be installed on the existing peak flow pumps. This will allow the pump speed to be automatically altered based on the water level in the channel. At lower water levels, the pumps will divert a lesser amount, but the diversion rate will increase if the water level continues to rise. This will provide more control over how much flow gets diverted to the peak flow basin and how much flow is going to the Shoal Creek Plant.

Table 8-2 provides a cost estimate for the proposed improvements to the peak flow pumps at the Shoal Creek Flow Equalization Basin.

**Table 8-2. Cost Estimate for Improvements to the Peak Flow Pumps**

| ITEM | QUANTITY | UNIT | DESCRIPTION                       | UNIT PRICE   | TOTAL                |
|------|----------|------|-----------------------------------|--------------|----------------------|
| 1    | 3        | EA   | VFD's for Existing 40 HP Pumps    | \$ 40,000.00 | \$ 120,000.00        |
| 2    | 1        | LS   | Modifications to Pump Controls    | \$ 25,000.00 | \$ 25,000.00         |
| 3    | 1        | LS   | Replace Transducer                | \$ 5,000.00  | \$ 5,000.00          |
|      |          |      | <b>Construction Cost Estimate</b> |              | <b>\$ 150,000.00</b> |

### 8.6.3 Raw Sewage Pumping Structure

#### **Facility Renovation – High Priority**

The current firm capacity of the raw sewage pumping structure of 3.0 MGD is insufficient for current and future Shoal Creek max month and peak flow conditions. While peak flow equalization is available, additional pumping capacity is recommended for accommodating max month and peak flows for both current and future Shoal Creek flows. Also, considering the condition of the pumps, replacement and renovation of the existing facilities are recommended.

The proposed improvements would involve installing submersible pumps in the two existing 8' diameter wet wells. Considering future flows for Shoal Creek alone, three pumps capable of producing 3,000 gpm each would provide a firm capacity of 6,000 gpm (8.64 MGD) with one pump out of service. This would provide more than adequate pumping capacity for future peak flows. Two pumps would be installed in one existing wet well and one pump in the other with a spot for a fourth pump. Each pump would be equipped with a VFD to allow for more efficient operation. Table 8-3 provides a cost estimate for these improvements.

**Table 8-3. Cost Estimate for Raw Sewage Pump Station Improvements**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                      | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|----------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Submersible Pumps                | \$ 230,000.00 | \$ 230,000.00        |
| 2                                 | 1        | LS   | Pump Controls                    | \$ 130,000.00 | \$ 130,000.00        |
| 3                                 | 1        | LS   | Removal of Existing Improvements | \$ 10,000.00  | \$ 10,000.00         |
| 4                                 | 1        | LS   | Jib Crane                        | \$ 25,000.00  | \$ 25,000.00         |
| 5                                 | 1        | LS   | Magnetic Flow Meter and Pit      | \$ 40,000.00  | \$ 40,000.00         |
| 6                                 | 1        | LS   | Misc. Piping and Valving         | \$ 50,000.00  | \$ 50,000.00         |
| 7                                 | 1        | LS   | Misc. Renovation Work            | \$ 50,000.00  | \$ 50,000.00         |
| 8                                 | 1        | LS   | Electrical                       | \$ 30,000.00  | \$ 30,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                  |               | <b>\$ 565,000.00</b> |

#### 8.6.4 Inlet Structure

##### **Replace Slide Gates and Bar Screens – Medium Priority**

As described previously, the existing slide gates and bar screens in the Inlet Structure need replacement. Table 8-4 provides a cost estimate for the replacement of these items.

**Table 8-4. Cost Estimate for Inlet Structure Replacements**

| ITEM | QUANTITY | UNIT | DESCRIPTION                       | UNIT PRICE   | TOTAL               |
|------|----------|------|-----------------------------------|--------------|---------------------|
| 1    | 2        | EA   | Replace Slide Gates               | \$ 20,000.00 | \$ 40,000.00        |
| 2    | 1        | LS   | Replace Bar Screens               | \$ 15,000.00 | \$ 15,000.00        |
|      |          |      | <b>Construction Cost Estimate</b> |              | <b>\$ 55,000.00</b> |

##### **Septic Hauler Dumping – Medium Priority**

Another concern at the inlet structure is the waste being dumped from septic haulers ahead of the raw sewage pumps which is likely causing excess buildup of debris on the bar screens. Based on data provided by the City, approximately 74,023 gallons of hauled waste were dumped at the treatment plant between December 2022 and January 2023. For this amount, the City was paid approximately \$14,880 which equates to approximately \$0.20 per gallon.

One concern with this septic dumping is the fact that the dump location is ahead of the raw sewage pumps. There is a manual bar screen at the dump site. However, it is unlikely that this screen catches all solids material which is evident by the material caught by the bar screens at the inlet structure. While not as easily quantified, the excess wear on the pumps caused by handling the septic debris reduces the life of the pumps, causing increased replacement and maintenance costs. Plant personnel have also indicated that allowing septic haulers to dump takes time away from other duties.

Considering the small amount of revenue generated, which is actually less considering the other factors discussed, it does not appear that allowing septic haulers to dump at the plant produces a meaningful net positive impact on facility operations and financials. It is likely to be a net negative impact, though not a drastic one. Considering this, it is recommended that the City consider revising the current conditions for receiving waste from septic haulers.

### **Grit Removal Facilities – Low Priority**

Construction of a grit removal structure is another consideration for improvements to the facilities. While more likely to be considered a low priority improvement, constructing a grit removal structure is beneficial to plant operations by limiting the amount of solids and grit material that is allowed to make its way through the plant. This reduces the wear on various components of the plant, decreases maintenance, and also improves plant efficiency by mitigating capacity loss due to sediment.

The influent line before the raw sewage pumps is approximately 15' deep. There is also very little room between the raw sewage pumps and the Inlet structure for a grit removal facility to be installed. Considering these factors, it is more reasonable to install a grit removal facility after the raw sewage pumps. More precisely, it appears that the facility could be added to the west side of the existing inlet structure. The existing facility would be modified to direct flow from the western influent channel to the new grit facility. Flow would pass through the grit chamber and back into the existing splitter box upstream of the existing weirs. Table 8-5 provides a cost estimate for the construction of the new facility and the modifications to the existing inlet structure.

**Table 8-5. Cost Estimate for Grit Removal Facility**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|-------------------------------------|---------------|----------------------|
| 1                                 | 80       | CY   | Excavation                          | \$ 12.00      | \$ 960.00            |
| 2                                 | 20       | CY   | Backfill                            | \$ 15.00      | \$ 300.00            |
| 3                                 | 1        | LS   | Demo Concrete Wall                  | \$ 5,000.00   | \$ 5,000.00          |
| 4                                 | 37       | CY   | Concrete                            | \$ 1,000.00   | \$ 37,000.00         |
| 5                                 | 1        | LS   | Connect 36" DIP to Existing Channel | \$ 15,000.00  | \$ 15,000.00         |
| 6                                 | 3        | EA   | Slide Gates                         | \$ 15,000.00  | \$ 45,000.00         |
| 7                                 | 1        | EA   | 36" Dia. Sluice Gate                | \$ 25,000.00  | \$ 25,000.00         |
| 8                                 | 40       | LF   | 36" DIP                             | \$ 500.00     | \$ 20,000.00         |
| 9                                 | 100      | LF   | 12" DIP                             | \$ 300.00     | \$ 30,000.00         |
| 10                                | 1        | LS   | Surface Restoration                 | \$ 5,000.00   | \$ 5,000.00          |
| 11                                | 1        | LS   | Grit Removal Equipment              | \$ 500,000.00 | \$ 500,000.00        |
| 12                                | 1        | EA   | Weir Gate                           | \$ 40,000.00  | \$ 40,000.00         |
| 13                                | 1        | LS   | Existing Weir Modifications         | \$ 10,000.00  | \$ 10,000.00         |
| 14                                | 1        | LS   | Electrical                          | \$ 110,000.00 | \$ 110,000.00        |
| 15                                | 1        | LS   | Site Work                           | \$ 10,000.00  | \$ 10,000.00         |
| 16                                | 75       | LF   | Hand Rail                           | \$ 150.00     | \$ 11,250.00         |
| 17                                | 240      | SF   | Grating                             | \$ 150.00     | \$ 36,000.00         |
| 18                                | 30       | LF   | Side Walk                           | \$ 80.00      | \$ 2,400.00          |
| 19                                | 1        | LS   | Misc Modifications                  | \$ 20,000.00  | \$ 20,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 922,910.00</b> |

### 8.6.5 Oxidation Ditches

#### **Install Retrievable Fine Bubble Diffusers – High Priority**

Considering the condition of the existing Hydro Rotors and the fact that they are not able to supply adequate oxygen for all current and future conditions, replacement of the rotors should be considered a high priority. For a retrofit installation in the existing ditches, retrievable fine bubble diffusers are recommended. The main benefit of these types of diffusers is how much easier they are to maintain. As opposed to a fixed system, whether that be discs or tubes, the retrieval systems are mounted to racks and attached to a guide rail that allows them to be removed from the surface with minimal effort. Another benefit is the efficiency of the system. Being fine bubble allows for greater oxygen transfer efficiency. Further, the use of blowers operating on variable frequency drives and controlled by a DO probe allows for a much more efficient delivery of oxygen to the system.

The equation below can be used to calculate SOR requirements for diffused air systems.

$$SOR = \frac{(AOR)(C_s)}{(\alpha)(F)(\theta^{(T-20)})[(\beta)(C_{sc} - C_L)]}$$

Where:

- SOR is Standard Oxygen Requirement
- AOR is Actual Oxygen Requirement
- $\alpha$  (0.85) is the Oxygen Transfer Correction Factor
- $\beta$  (0.95) is the Salinity – Surface Tension Correction Factor
- $\theta$  (1.024) is the Oxygen Transfer Coefficient
- T (12) is Degrees Celsius Temperature of Water
- $C_{sc}$  (10.5) is the Dissolved Oxygen Concentration at 40% depth at the site elevation and temperature in mg/L
- $C_s$  (9.02) is the Dissolved Oxygen Saturation Concentration in clean water at 20 Degrees C in mg/L
- $C_L$  (2.00) is the Operating Dissolved Oxygen Concentration in mg/L
- F (0.85) is the fouling factor

Considering the AOR requirements for Shoal Creek's current and future conditions established in Table 7-1 and the above equation, Table 8-6 provides diffused air SOR values for the Shoal Creek Plant.

**Table 8-6. Shoal Creek Plant Diffused Air SOR**

|                       | SOR (lb/hr) |
|-----------------------|-------------|
| <b>Current (2023)</b> | 1042        |
| <b>Future (2043)</b>  | 1260        |

Table 8-7 provides a construction cost estimate for the removal of the existing aeration equipment and the installation of retrievable diffuser racks as described.

**Table 8-7. Cost Estimate for Installation of Retrievable Diffusers**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                    | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|--------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Removal of Existing Equipment  | \$ 25,000.00  | \$ 25,000.00           |
| 2                                 | 1        | LS   | Removal of Sediment in Ditches | \$ 40,000.00  | \$ 40,000.00           |
| 3                                 | 250      | LF   | Air Piping                     | \$ 500.00     | \$ 125,000.00          |
| 4                                 | 4        | EA   | Blowers                        | \$ 125,000.00 | \$ 500,000.00          |
| 5                                 | 30       | CY   | Concrete Pads                  | \$ 1,000.00   | \$ 30,000.00           |
| 6                                 | 8        | EA   | Mixers                         | \$ 40,000.00  | \$ 320,000.00          |
| 7                                 | 24       | EA   | Diffuser Racks                 | \$ 40,000.00  | \$ 960,000.00          |
| 8                                 | 1        | LS   | DO Probe                       | \$ 15,000.00  | \$ 15,000.00           |
| 9                                 | 4        | EA   | VFD and Cabinet                | \$ 40,000.00  | \$ 160,000.00          |
| 10                                | 1500     | LF   | Handrail                       | \$ 150.00     | \$ 225,000.00          |
| 11                                | 1        | LS   | Pre-Engineered Shelter         | \$ 15,000.00  | \$ 15,000.00           |
| 12                                | 1        | LS   | Electrical                     | \$ 300,000.00 | \$ 300,000.00          |
| <b>Construction Cost Estimate</b> |          |      |                                |               | <b>\$ 2,715,000.00</b> |



### **Increase Oxidation Ditch Drain Size – Low Priority**

The existing 6" lines out of the oxidation ditches that drain back to the head of the plant are reported to be undersized by plant personnel and thus drain the ditches slowly. To increase the rate at which the ditches can be drained, replacing the existing 6" lines with 10" lines is proposed.

Table 8-8 provides a cost estimate for increasing the size of these lines.

**Table 8-8. Cost Estimate for Oxidation Ditch Drain Line Replacement**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                              | UNIT PRICE   | TOTAL                |
|-----------------------------------|----------|------|------------------------------------------|--------------|----------------------|
| 1                                 | 400      | LF   | 10" DIP                                  | \$ 225.00    | \$ 90,000.00         |
| 2                                 | 2        | EA   | 10" Plug Valve                           | \$ 6,000.00  | \$ 12,000.00         |
| 3                                 | 2        | EA   | Install 10" Drain in Oxidation Ditch     | \$ 15,000.00 | \$ 30,000.00         |
| 4                                 | 1        | LS   | Connection to Diversion Splitter Manhole | \$ 10,000.00 | \$ 10,000.00         |
| 5                                 | 400      | LF   | Crushed Stone Pavement Replacement       | \$ 30.00     | \$ 12,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                          |              | <b>\$ 154,000.00</b> |

## **8.6.6 Secondary Clarifiers**

### **Install Center Feed Equipment – High Priority**

The condition of the existing clarifier skirts requires that replacement be considered in the near future. More so though, the peripheral feed type of the current facilities is of a dated design. To provide for easier operation and maintenance of the clarifier facilities in addition to simply replacing equipment that has passed the end of its useful life, the installation of center feed type clarification equipment in the existing clarifier basins is proposed. Table 8-9 provides a cost estimate for replacing the existing clarifier equipment with new, center feed equipment.

**Table 8-9. Cost Estimate for Installation of Center Feed Clarifier Equipment**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                    | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|--------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Removal of Existing Equipment  | \$ 25,000.00  | \$ 25,000.00           |
| 2                                 | 1        | LS   | Cleaning of Clarifiers         | \$ 10,000.00  | \$ 10,000.00           |
| 3                                 | 1        | LS   | Clarifier Equipment & Controls | \$ 750,000.00 | \$ 750,000.00          |
| 4                                 | 450      | LF   | Handrail                       | \$ 100.00     | \$ 45,000.00           |
| 5                                 | 1        | LS   | Misc. Piping                   | \$ 50,000.00  | \$ 50,000.00           |
| 6                                 | 1        | LS   | Misc. Repairs                  | \$ 30,000.00  | \$ 30,000.00           |
| 7                                 | 1        | LS   | Retrofit Launderers            | \$ 40,000.00  | \$ 40,000.00           |
| 8                                 | 1        | LS   | Electrical                     | \$ 100,000.00 | \$ 100,000.00          |
| <b>Construction Cost Estimate</b> |          |      |                                |               | <b>\$ 1,050,000.00</b> |

### 8.6.7 *Return Activated and Waste Activated Pump Station*

#### **Renovation of RAS/WAS Pump Station – High Priority**

The condition of the existing facilities is such that renovation is recommended. Similar to the proposed improvements to the raw sewage pumping structure, the conversion to submersible pumps is recommended here as well. Each pump would be equipped with VFD to allow for better control of RAS and more efficient operation. Assuming a RAS rate of 0.75 times the future average daily flow of 2.9 MGD, a firm capacity of approximately 1,550 gpm is required. To achieve this, two pumps capable of producing approximately 1,550 gpm at 30' TDH would be installed. Considering the existing wet wells are two 30" ductile iron pipes, it is expected that two new 4' diameter concrete wet wells will need to be constructed. Table 8-10 provides a cost estimate for renovating the RAS/WAS Pump Station.

**Table 8-10. Cost Estimate for Renovation of RAS/WAS Pump Station**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                             | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-----------------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Submersible Pumps                       | \$ 230,000.00 | \$ 230,000.00          |
| 2                                 | 1        | LS   | Pump Controls                           | \$ 130,000.00 | \$ 130,000.00          |
| 3                                 | 1        | LS   | Removal of Existing Improvements        | \$ 10,000.00  | \$ 10,000.00           |
| 4                                 | 2        | EA   | 4' Dia. WW                              | \$ 50,000.00  | \$ 100,000.00          |
| 5                                 | 2        | EA   | Valve Pit, Valves and Piping            | \$ 125,000.00 | \$ 250,000.00          |
| 6                                 | 1        | LS   | Jib Crane                               | \$ 25,000.00  | \$ 25,000.00           |
| 7                                 | 1        | LS   | Connection to Existing 24" Dia. DIP     | \$ 15,000.00  | \$ 15,000.00           |
| 8                                 | 2        | EA   | Install Plug Valve                      | \$ 15,000.00  | \$ 30,000.00           |
| 9                                 | 2        | LS   | Magnetic Flow Meter and Pit             | \$ 40,000.00  | \$ 80,000.00           |
| 10                                | 1        | LS   | Misc. Site Piping and Modifications     | \$ 50,000.00  | \$ 50,000.00           |
| 11                                | 1        | LS   | Surface Restoration and Misc. Site Work | \$ 20,000.00  | \$ 20,000.00           |
| 12                                | 1        | LS   | Electrical                              | \$ 70,000.00  | \$ 70,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                         |               | <b>\$ 1,010,000.00</b> |

### **8.6.8 Sludge Storage and Disposal**

#### **Replace Aerators and Decant Valving – Low Priority**

While still operable, the floating aerators in the sludge holding tanks are nearing the end of their useful life and should be considered for replacement. The decant valves at the sludge holding tanks are deteriorating and will need to be replaced in the future. Table 8-11 provides a cost estimate for these improvements.

**Table 8-11. Cost Estimate for Replacing Floating Aerators and Decant Valving**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                           | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|---------------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Removal of Existing Improvements      | \$ 15,000.00  | \$ 15,000.00         |
| 2                                 | 3        | EA   | Install Floating Aerator              | \$ 100,000.00 | \$ 300,000.00        |
| 3                                 | 3        | EA   | Replace Decant Valving at Sludge Tank | \$ 20,000.00  | \$ 60,000.00         |
| 4                                 | 1        | LS   | Sludge Removal                        | \$ 70,000.00  | \$ 70,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                       |               | <b>\$ 445,000.00</b> |

#### **Construct Centrifuge Sludge Handling Facility – Low Priority**

Sludge is currently stored and disposed of by land application. Should the City decide to alter the method of sludge handling, the installation of a centrifuge is a viable option. When using a centrifuge, sludge is mixed in line with a small quantity of polymer to form a floc and is then pumped into a centrifuge that spins at a high speed, pressing the sludge against a screen. This allows the water (centrate) to move through and be discharged back to the treatment stream while the sludge is retained. The sludge cake is then augured to the end opposite of which the centrate is exiting and dropped into a hopper to be conveyed away from the centrifuge.

In addition to the centrifuge equipment, a centrifuge building to house the centrifuge, polymer feed system, and conveyor equipment would need to be constructed. A compost pad with a roof will be needed to store dried solids material. Anticipating that the centrifuge equipment would be constructed near the two smaller sludge holding tanks, one of these tanks would serve as the homogenizing tank from which sludge is pumped into the centrifuge. A mixer would be installed in the tank to achieve uniform consistency. New pumps would be installed to pull sludge from this tank. It is anticipated that the decant from the centrifuge will go to the existing pump station that currently handles decant from the existing sludge holding tanks. Table 8-12 provides an estimated construction cost for the installation of a centrifuge.

**Table 8-12. Cost Estimate for Centrifuge Sludge Handling Facility**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                      | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|----------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Centrifuge Equipment             | \$ 450,000.00 | \$ 450,000.00          |
| 2                                 | 1        | LS   | Centrifuge Installation          | \$ 225,000.00 | \$ 225,000.00          |
| 3                                 | 1        | LS   | Sludge Polymer Feed System       | \$ 60,000.00  | \$ 60,000.00           |
| 4                                 | 1        | LS   | Finished Sludge Conveyor System  | \$ 140,000.00 | \$ 140,000.00          |
| 5                                 | 400      | SF   | Sludge Pump Building             | \$ 250.00     | \$ 100,000.00          |
| 6                                 | 800      | SF   | Centrifuge Building              | \$ 250.00     | \$ 200,000.00          |
| 7                                 | 1        | LS   | Sludge and Grinder Pumps         | \$ 140,000.00 | \$ 140,000.00          |
| 8                                 | 1        | LS   | Mixer and Controls               | \$ 75,000.00  | \$ 75,000.00           |
| 9                                 | 1        | LS   | Misc. Piping for Sludge Handling | \$ 80,000.00  | \$ 80,000.00           |
| 10                                | 10000    | SF   | Compost Pad                      | \$ 12.00      | \$ 120,000.00          |
| 11                                | 1        | LS   | Compost Pad Roof Structure       | \$ 100,000.00 | \$ 100,000.00          |
| 12                                | 1        | LS   | Sludge Removal                   | \$ 15,000.00  | \$ 15,000.00           |
| 13                                | 1        | LS   | Painting                         | \$ 50,000.00  | \$ 50,000.00           |
| 14                                | 1        | LS   | Electrical                       | \$ 260,000.00 | \$ 260,000.00          |
| 15                                | 1        | LS   | Sitework                         | \$ 60,000.00  | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                  |               | <b>\$ 2,075,000.00</b> |

Based on information provided by the City, it is estimated that the current sludge hauling operation for both plants costs approximately \$60,940 per year including labor, power, materials, maintenance, etc. Assuming half of those costs can be attributed to Shoal Creek, the annual cost to haul sludge for the Shoal Creek plant is \$30,470. A breakdown of these total costs is provided in Appendix E. It can be assumed that the installation of a centrifuge would cut the sludge handling O&M cost for Shoal Creek in half bringing an annual cost savings of approximately \$15,000. Comparing this cost savings to the estimated construction cost, the payback period associated with the installation of a centrifuge is hard to justify from solely a financial perspective.

With a centrifuge, there will be a reduction in the overall amount of sludge that has to be disposed of from the treatment plant. However, the handling and disposal of solid sludge material as opposed to liquid, will require some changes in operations. One such consideration is that it may be more difficult to find a third party to dispose of the solid material rather than liquid. These and other factors are difficult to quantify. If the installation of a centrifuge is something the City wishes to pursue, it is recommended that more discussions take place to further look into the details of the operation relative to the City's expectations and needs.

### 8.6.9 Filtration

#### **Construct Tertiary Filters – Low Priority**

Under circumstances where adequate phosphorus removal is not able to be achieved biologically, then sufficient removal will have to be attained through chemical addition to meet future effluent requirements. In that case, tertiary filters will likely need to be constructed to further remove phosphorus-binding solids from the treated clarifier effluent.

Considering the available space on site, the location of the filters would need to be west of the existing oxidation ditches. This will require a portion of the existing pond to be filled. Further, there is not sufficient elevation drop between the existing clarifiers and the existing UV structure to accommodate the installation of the filters. As such, a new UV structure would need to be constructed further down the outfall sewer. To handle future peak flows, the proposed filters would need a maximum capacity of at least 7.0 MGD.

Table 8-13 provides a cost estimate for the construction of the described tertiary filters.

**Table 8-13. Cost Estimate for Construction of Tertiary Filters**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                 | UNIT PRICE      | TOTAL                  |
|-----------------------------------|----------|------|-----------------------------|-----------------|------------------------|
| 1                                 | 16440    | CY   | Excavation from Borrow Pit  | \$ 8.00         | \$ 131,520.00          |
| 2                                 | 12000    | CY   | Backfill Pond               | \$ 10.00        | \$ 120,000.00          |
| 3                                 | 1700     | CY   | Fill Around Filter Building | \$ 10.00        | \$ 17,000.00           |
| 4                                 | 250      | CY   | Concrete                    | \$ 1,000.00     | \$ 250,000.00          |
| 5                                 | 1        | LS   | Filter Equipment            | \$ 1,600,000.00 | \$ 1,600,000.00        |
| 6                                 | 1        | LS   | Filter Installation         | \$ 400,000.00   | \$ 400,000.00          |
| 7                                 | 1        | LS   | Pumps and Controls          | \$ 120,000.00   | \$ 120,000.00          |
| 8                                 | 2500     | SF   | Filter Building             | \$ 150.00       | \$ 375,000.00          |
| 9                                 | 1        | LS   | Overhead Crane System       | \$ 40,000.00    | \$ 40,000.00           |
| 10                                | 1        | LS   | Site Piping                 | \$ 100,000.00   | \$ 100,000.00          |
| 11                                | 1        | LS   | Site Grading                | \$ 35,000.00    | \$ 35,000.00           |
| 12                                | 1        | LS   | Railing & Misc. Metals      | \$ 40,000.00    | \$ 40,000.00           |
| 13                                | 1        | LS   | Electrical                  | \$ 800,000.00   | \$ 800,000.00          |
| 14                                | 3200     | SF   | Crushed Stone Surfacing     | \$ 10.00        | \$ 32,000.00           |
| 15                                | 1        | LS   | Chemical Feed Equipment     | \$ 60,000.00    | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                             |                 | <b>\$ 4,120,520.00</b> |

### 8.6.10 UV Disinfection

#### **Replace Existing UV Equipment – Low Priority**

As indicated previously, the existing channels cannot accommodate the installation of slanted UV disinfection equipment. New channels would have to be constructed to allow for this type of equipment to be installed. Considering this, constructing new channels to install a different type of equipment is not thought to be necessary when the existing equipment is adequate for current and future flows. At the time the existing UV equipment needs replacement, simply replacing the equipment is thought to be the more reasonable option. Given that the existing equipment is older, the installation of new UV equipment would require some minor modifications to the existing channels to allow for installation.

If and when the time comes that the existing channels cannot accommodate flows, further consideration can be given to either adding another channel or construction of all new ones to allow for the installation of different UV equipment. Table 8-14 provides a cost estimate for the replacement of the existing UV equipment.

**Table 8-14. Cost Estimate for Replacement of UV Equipment**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                        | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|------------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Removal of Existing Improvements   | \$ 30,000.00  | \$ 30,000.00         |
| 2                                 | 10       | CY   | Concrete for Channel Modifications | \$ 1,000.00   | \$ 10,000.00         |
| 3                                 | 1        | LS   | Replace UV Equipment and Controls  | \$ 450,000.00 | \$ 450,000.00        |
| 4                                 | 1        | LS   | Install Effluent Control Weirs     | \$ 25,000.00  | \$ 25,000.00         |
| 5                                 | 1        | LS   | Electrical                         | \$ 50,000.00  | \$ 50,000.00         |
| 6                                 | 1        | LS   | Misc. Modifications                | \$ 35,000.00  | \$ 35,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                    |               | <b>\$ 600,000.00</b> |



### **8.6.11 Electrical Facilities**

#### **Install Automatic Transfer Switch – High Priority**

The generator for the Shoal Creek Plant currently does not have an ATS which requires the switch to backup power to be a manual operation. It is recommended that an ATS be installed on the existing generator so that backup power turns on automatically in the event of a power failure. Table 8-15 provides a cost estimate for the installation of an ATS on the existing generator for the Shoal Creek Plant.

**Table 8-15. Cost Estimate for Installing ATS**

| ITEM                       | QUANTITY | UNIT | DESCRIPTION | UNIT PRICE   | TOTAL        |
|----------------------------|----------|------|-------------|--------------|--------------|
| 1                          | 1        | LS   | Install ATS | \$ 50,000.00 | \$ 50,000.00 |
| Construction Cost Estimate |          |      |             |              | \$ 50,000.00 |

### 8.6.12 Improvement Cost Estimate Summary

Table 8-16 provides a summary of the construction costs presented in Section 8.6 for improvements to the existing Shoal Creek Plant. Table 8-16 groups these improvements by priority to present a total estimated construction cost for high, medium, and low priority improvements, as well as a total estimated cost for all improvements. Given that most of the proposed improvements are aimed at providing improved operation and functionality to the existing system, it is not anticipated that there will be an increase in operation and maintenance costs. On the contrary, it is more likely that O&M costs will be decreased. As such, the estimated construction costs presented also reflect the estimated present worth costs.

**Table 8-16. Summary of Cost Estimates for Improvements to Existing Facilities**

| Improvement                                                              | Construction Cost       |
|--------------------------------------------------------------------------|-------------------------|
| <b>High Priority Improvements</b>                                        |                         |
| Raw Sewage Pumping Structure Renovation                                  | \$ 565,000.00           |
| Oxidation Ditch Retrievable Diffuser Installation                        | \$ 2,715,000.00         |
| Clarifier Center Feed Equipment Installation                             | \$ 1,050,000.00         |
| RAS/WAS Pump Station Renovation                                          | \$ 1,010,000.00         |
| Backup Generator ATS Installation                                        | \$ 50,000.00            |
| <b>Total Estimated Construction Cost of High Priority Improvements</b>   | <b>\$ 5,390,000.00</b>  |
| <b>Medium Priority Improvements</b>                                      |                         |
| Crowder Lift Station Renovation                                          | \$ 1,092,000.00         |
| Inlet Structure Slide Gates and Bar Screens Replacement                  | \$ 55,000.00            |
| Reevaluate Septic Dumping at Plant                                       | N/A                     |
| <b>Total Estimated Construction Cost of Medium Priority Improvements</b> | <b>\$ 1,147,000.00</b>  |
| <b>Low Priority Improvements</b>                                         |                         |
| Peak Flow Pump Control Improvements                                      | \$ 150,000.00           |
| Grit Removal Facilities Construction                                     | \$ 922,910.00           |
| Oxidation Ditch Drain Improvements                                       | \$ 154,000.00           |
| Sludge Storage Aerator and Decant Valving Replacement                    | \$ 445,000.00           |
| Centrifuge Sludge Handling Facility Construction                         | \$ 2,075,000.00         |
| Tertiary Filter Construction                                             | \$ 4,120,520.00         |
| UV Disinfection Equipment Replacement                                    | \$ 600,000.00           |
| <b>Total Estimated Construction Cost of Low Priority Improvements</b>    | <b>\$ 8,467,430.00</b>  |
| <b>Total Estimated Construction Cost of All Improvements</b>             | <b>\$ 15,004,430.00</b> |

## 8.7 Improvements for Treating Crowder Flow

In addition to the improvements described in Section 8.6, additional improvements will also need to be implemented if the Shoal Creek Plant is to treat wastewater flow from the Crowder Plant. Like Section 8.6, this section describes the various improvements needed and provides associated cost estimates for construction of the proposed improvements.

### 8.7.1 Flow Equalization Basin

#### **Reroute Crowder Pressure Sewer Line – High Priority**

If Shoal Creek treats wastewater from the Crowder Plant, flow from Crowder would not be screened with the current piping configuration. The current location of the pressure sewer from Crowder, at the inlet structure, is after all of Shoal Creek's screening facilities. To address this, it is recommended that the 16" pressure sewer from Crowder be rerouted at the Shoal Creek flow equalization basin to discharge to a manhole just upstream of the mechanical screen there. This way, all flow entering the Shoal Creek Plant will have been screened by the mechanical screen. Table 8-17 provides a cost estimate for rerouting the pressure sewer.

**Table 8-17. Cost Estimate for Crowder Pressure Sewer Reroute**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                  | UNIT PRICE   | TOTAL               |
|-----------------------------------|----------|------|------------------------------|--------------|---------------------|
| 1                                 | 1        | EA   | Connect to Existing 16" Line | \$ 15,000.00 | \$ 15,000.00        |
| 2                                 | 100      | LF   | 16" Dia. PVC Pressure Sewer  | \$ 200.00    | \$ 20,000.00        |
| 3                                 | 1        | EA   | Connect to Existing Manhole  | \$ 12,000.00 | \$ 12,000.00        |
| 4                                 | 2        | EA   | 16" Plug Valves              | \$ 15,000.00 | \$ 30,000.00        |
| <b>Construction Cost Estimate</b> |          |      |                              |              | <b>\$ 77,000.00</b> |

## 8.7.2 Raw Sewage Pumping Structure

### **Facility Renovation – High Priority**

Additional capacity will be needed at the raw sewage pumping structure if Shoal Creek is to treat flow from Crowder. If planning to treat flow from the Crowder Plant, a fourth pump would be needed to accommodate peak flows. This would provide a firm capacity of 9,000 gpm (12.96 MGD). Renovating the raw sewage pumping structure as described should be considered a high priority if Shoal Creek is to treat flow from Crowder. Table 8-18 provides a cost estimate for all the same renovation work described in Section 8.6.3 plus the addition of a fourth pump.

**Table 8-18. Cost Estimate for Raw Sewage PS Improvements**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                      | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|----------------------------------|---------------|----------------------|
| 1                                 | 1        | LS   | Submersible Pumps                | \$ 310,000.00 | \$ 310,000.00        |
| 2                                 | 1        | LS   | Pump Controls                    | \$ 130,000.00 | \$ 130,000.00        |
| 3                                 | 1        | LS   | Removal of Existing Improvements | \$ 10,000.00  | \$ 10,000.00         |
| 4                                 | 1        | LS   | Jib Crane                        | \$ 25,000.00  | \$ 25,000.00         |
| 5                                 | 1        | LS   | Magnetic Flow Meter and Pit      | \$ 40,000.00  | \$ 40,000.00         |
| 6                                 | 1        | LS   | Misc. Piping and Valving         | \$ 50,000.00  | \$ 50,000.00         |
| 7                                 | 1        | LS   | Misc. Renovation Work            | \$ 50,000.00  | \$ 50,000.00         |
| 8                                 | 1        | LS   | Electrical                       | \$ 30,000.00  | \$ 30,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                  |               | <b>\$ 645,000.00</b> |

### 8.7.3 Inlet Structure

#### **Splitter Box Improvements and Grit Removal Facility – High Priority**

While the current configuration of the inlet structure may create somewhat uneven flow distribution between the existing treatment trains for various reasons, it is not necessarily a cause for concern. However, with the addition of more treatment trains to accommodate flow from Crowder, constructing improvements to control the flow split between facilities will be necessary. Further, it is recommended that a grit removal facility be added as well at the same time as improvements to the inlet structure. This will prevent the need for another addition to the existing facility in the future, saving cost and providing a more cohesive design. The design for the proposed facility is nearly identical to what is described in Section 8.6.4, except it sees the addition of two flow split channels west of the existing ones, just after the proposed grit facility. Table 8-19 provides a construction cost estimate for the proposed improvements.

**Table 8-19. Cost Estimate for Splitter Box and Grit Facility Improvements**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-------------------------------------|---------------|------------------------|
| 1                                 | 100      | CY   | Excavation                          | \$ 12.00      | \$ 1,200.00            |
| 2                                 | 40       | CY   | Backfill                            | \$ 15.00      | \$ 600.00              |
| 3                                 | 1        | LS   | Demo Concrete Wall                  | \$ 8,000.00   | \$ 8,000.00            |
| 4                                 | 64       | CY   | Concrete                            | \$ 1,000.00   | \$ 64,000.00           |
| 5                                 | 1        | LS   | Connect 36" DIP to Existing Channel | \$ 15,000.00  | \$ 15,000.00           |
| 6                                 | 3        | EA   | Slide Gates                         | \$ 25,000.00  | \$ 75,000.00           |
| 7                                 | 2        | EA   | 4'x6' Slide Gate                    | \$ 30,000.00  | \$ 60,000.00           |
| 8                                 | 1        | EA   | 36" Dia. Sluice Gate                | \$ 25,000.00  | \$ 25,000.00           |
| 9                                 | 40       | LF   | 36" DIP                             | \$ 500.00     | \$ 20,000.00           |
| 10                                | 100      | LF   | 12" DIP                             | \$ 300.00     | \$ 30,000.00           |
| 11                                | 1        | LS   | Surface Restoration                 | \$ 5,000.00   | \$ 5,000.00            |
| 12                                | 1        | LS   | Grit Removal Equipment              | \$ 500,000.00 | \$ 500,000.00          |
| 13                                | 2        | EA   | 4'x3' Weir Gate                     | \$ 30,000.00  | \$ 60,000.00           |
| 14                                | 1        | EA   | 8'x3' Weir Gate                     | \$ 40,000.00  | \$ 40,000.00           |
| 15                                | 1        | LS   | Existing Weir Modifications         | \$ 10,000.00  | \$ 10,000.00           |
| 16                                | 1        | LS   | Electrical                          | \$ 100,000.00 | \$ 100,000.00          |
| 17                                | 1        | LS   | Site Work                           | \$ 10,000.00  | \$ 10,000.00           |
| 18                                | 75       | LF   | Handrail                            | \$ 150.00     | \$ 11,250.00           |
| 19                                | 240      | SF   | Grating                             | \$ 150.00     | \$ 36,000.00           |
| 20                                | 30       | LF   | Sidewalk                            | \$ 80.00      | \$ 2,400.00            |
| 21                                | 1        | LS   | Misc Modifications                  | \$ 20,000.00  | \$ 20,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 1,093,450.00</b> |

#### **8.7.4      *Biological Treatment and Clarification***

The existing oxidation ditches and clarifiers do not have sufficient capacity to accommodate the additional flow and loads from the Crowder Plant. To accommodate Crowder's flow, it is necessary to construct additional treatment trains as modifying the existing facilities to meet the increased demand is not practical.

##### **Concentric Basin Extended Aeration System (Phase I) – High Priority**

While the existing facilities are comprised of racetrack style, extended aeration oxidation ditch systems, and separate secondary clarifiers, a concentric style system presents a more efficient design. Due to its use of common walls between the outer oxidation ditch and the inner clarifier, a concentric basin design typically presents significant cost savings compared to systems with separate facilities.

In order to accommodate the projected future flows and loads with the additional flow from Crowder, two additional treatment trains of similar capacity to that of the existing two are proposed. If expansion to handle Crowder's flow is pursued, however, it will likely make sense to construct only a single additional train first, with considerations given for easy future expansion. Planning for construction of the second train would begin once flows and loads are seen increasing towards the projected values.

For Phase I, one concentric basin featuring a 162' diameter oxidation ditch with a 65' diameter inner clarifier would be required for proper biological treatment and clarification. The outer ring of the basin would contain retrievable fine bubble diffuser racks and submersible mixers to maintain velocity in the channel and provide mixing. The inner clarifier basin would have a stainless-steel clarifier mechanism that can be retrieved from the basin, allowing for the mechanism to be exchanged out without taking the entire clarifier offline.

The only space available for the construction of these facilities is the pond west of the existing facilities. As such, construction of additional treatment trains would require filling in this pond or a portion of it and further raising the grade to match that of the existing treatment site. To accomplish this, it is assumed that the area west of the pond as well as the portion of the pond not to be filled can serve as borrow areas for suitable fill material. Considering that it is not known with certainty if or how much of the material from these locations will be suitable for fill, it will be assumed that some fill material must be brought into the site. A geotechnical investigation will be required early in the planning process for these improvements to get a better understanding of the suitability of the soil and subsequently the estimated cost for earthwork.



Sludge would exit the new clarifier to a new RAS/WAS pump station connected to the basin. The pump stations would function in the same manner as the existing one for the other facilities. It would return a portion of the MLSS to the inlet structure with the ability to also waste to the larger sludge holding tank. The treated effluent would exit the clarifier into a junction box before heading to the UV disinfection structure.

Using the same equation from Section 0 for SOR and the AOR values for combined Shoal Creek and Crowder flows from Table 7-1, Table 8-20 provides SOR values for Shoal Creek and Crowder flows for a diffused air system.

**Table 8-20. Shoal Creek and Crowder Plant Diffused Air SOR**

|                       | SOR (lb/hr) |
|-----------------------|-------------|
| <b>Current (2023)</b> | 2034        |
| <b>Future (2043)</b>  | 2461        |

Presented in Table 8-21 are the design parameters for one proposed concentric basin extended aeration system. Table 8-22 provides a construction cost estimate for building the first treatment train (Phase I) to accommodate flow from Crowder.

**Table 8-21. Concentric Basin Design Parameters**

| Oxidation Ditch                                          |      |
|----------------------------------------------------------|------|
| Channel Width (ft)                                       | 47   |
| Channel Total Depth (ft)                                 | 14   |
| Channel Side Water Depth (ft)                            | 12   |
| Basin Outer Diameter (ft)                                | 162  |
| Basin Inner Diameter (ft)                                | 68   |
| Wall Thickness (ft)                                      | 1.5  |
| Basin Total Volume (MG)                                  | 1.78 |
| Basin Total Effective Volume (MG)                        | 1.52 |
| Max BOD <sub>5</sub> Capacity (lb BOD <sub>5</sub> /day) | 6110 |
| Peak Hydraulic Capacity (MGD)                            | 4.57 |
| Oxygen Supply Capacity (lb O <sub>2</sub> /hr)           | 625  |
| Clarifier                                                |      |
| Basin Diameter (ft)                                      | 65   |
| Basin Total Depth (ft)                                   | 14   |
| Basin Side Water Depth (ft)                              | 12   |
| Basin Surface Area (ft <sup>2</sup> )                    | 3318 |
| Basin Total Volume (MG)                                  | 0.35 |
| Basin Effective Volume (MG)                              | 0.30 |
| Hydraulic Capacity (MGD)                                 | 3.32 |

**Table 8-22. Cost Estimate for Concentric Basin Extended Aeration System (Phase I)**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-------------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Pond Dewatering                     | \$ 30,000.00  | \$ 30,000.00           |
| 2                                 | 47760    | CY   | Excavation from Borrow Pit          | \$ 8.00       | \$ 382,080.00          |
| 3                                 | 28500    | CY   | Off-Site Fill                       | \$ 30.00      | \$ 855,000.00          |
| 4                                 | 39800    | CY   | On-Site Fill                        | \$ 10.00      | \$ 398,000.00          |
| 5                                 | 1765     | CY   | Concrete (Basin, PS, & Blower Pads) | \$ 1,000.00   | \$ 1,765,000.00        |
| 6                                 | 510      | LF   | 24" DIP                             | \$ 400.00     | \$ 204,000.00          |
| 7                                 | 500      | LF   | 12" DIP                             | \$ 300.00     | \$ 150,000.00          |
| 8                                 | 100      | LF   | 10" DIP                             | \$ 250.00     | \$ 25,000.00           |
| 9                                 | 500      | LF   | 6" DIP                              | \$ 150.00     | \$ 75,000.00           |
| 10                                | 1        | EA   | 4' Dia. Manhole                     | \$ 12,000.00  | \$ 12,000.00           |
| 11                                | 1        | LS   | RAS/WAS Pumps, Controls, Etc.       | \$ 200,000.00 | \$ 200,000.00          |
| 12                                | 1        | EA   | Davit Crane                         | \$ 6,000.00   | \$ 6,000.00            |
| 13                                | 1        | LS   | RAS/WAS PS Piping & Valving         | \$ 50,000.00  | \$ 50,000.00           |
| 14                                | 1        | LS   | Mag Meter and Meter Pit             | \$ 40,000.00  | \$ 40,000.00           |
| 15                                | 12       | EA   | Diffuser Racks                      | \$ 40,000.00  | \$ 480,000.00          |
| 16                                | 250      | LF   | Air Piping                          | \$ 500.00     | \$ 125,000.00          |
| 17                                | 2        | EA   | Blowers                             | \$ 125,000.00 | \$ 250,000.00          |
| 18                                | 4        | EA   | Mixers                              | \$ 40,000.00  | \$ 160,000.00          |
| 19                                | 1        | LS   | DO Probe                            | \$ 15,000.00  | \$ 15,000.00           |
| 20                                | 2        | EA   | VFD and Cabinet                     | \$ 40,000.00  | \$ 80,000.00           |
| 21                                | 1        | LS   | Clarifier Equipment                 | \$ 750,000.00 | \$ 750,000.00          |
| 22                                | 1        | LS   | Pre-Engineered Shelter              | \$ 15,000.00  | \$ 15,000.00           |
| 23                                | 1        | LS   | Coatings                            | \$ 40,000.00  | \$ 40,000.00           |
| 24                                | 1        | LS   | Misc. Metals                        | \$ 35,000.00  | \$ 35,000.00           |
| 25                                | 6        | EA   | Hydro Static Pressure Valves        | \$ 1,000.00   | \$ 6,000.00            |
| 26                                | 300      | LF   | 2" PVC Water Line                   | \$ 25.00      | \$ 7,500.00            |
| 27                                | 1        | EA   | Yard Hydrant                        | \$ 1,500.00   | \$ 1,500.00            |
| 28                                | 450      | SF   | Control Building                    | \$ 500.00     | \$ 225,000.00          |
| 29                                | 1        | LS   | Electrical                          | \$ 510,000.00 | \$ 510,000.00          |
| 30                                | 600      | LF   | Handrail                            | \$ 150.00     | \$ 90,000.00           |
| 31                                | 6000     | SF   | Crushed Stone Surfacing             | \$ 10.00      | \$ 60,000.00           |
| 32                                | 1        | LS   | Connection to Inlet Structure       | \$ 15,000.00  | \$ 15,000.00           |
| 33                                | 1        | LS   | Connect to Sludge Tank              | \$ 15,000.00  | \$ 15,000.00           |
| 34                                | 1        | LS   | Misc. Site Work                     | \$ 30,000.00  | \$ 30,000.00           |
| 35                                | 1        | LS   | Misc. Piping & Valving              | \$ 40,000.00  | \$ 40,000.00           |
| 36                                | 1        | LS   | Surface Restoration                 | \$ 20,000.00  | \$ 20,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 7,162,080.00</b> |

### **Concentric Basin Extended Aeration System (Phase II) – Low Priority**

As described, constructing the second concentric basin should not be pursued initially as current demands do not require it. However, flows and loads should be assessed progressing into the future to determine if and when the construction of Phase II should be implemented. The design of the second basin will be nearly identical to the first, with only slight variations due to orientation. Phase I will have been constructed with considerations for the addition of Phase II to provide some cost savings. However, it will be assumed that more fill material will need to be brought in for Phase II than for Phase I as less suitable on-site material will likely be available. Table 8-23 provides a construction cost estimate for the construction of the second basin.

**Table 8-23. Cost Estimate for Concentric Basin Extended Aeration System (Phase II)**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|-------------------------------------|---------------|------------------------|
| 1                                 | 1        | LS   | Pond Dewatering                     | \$ 20,000.00  | \$ 20,000.00           |
| 2                                 | 16800    | CY   | Excavation from Borrow Pit          | \$ 8.00       | \$ 134,400.00          |
| 3                                 | 56000    | CY   | Off-Site Fill                       | \$ 30.00      | \$ 1,680,000.00        |
| 4                                 | 14000    | CY   | On-Site Fill                        | \$ 10.00      | \$ 140,000.00          |
| 5                                 | 1765     | CY   | Concrete (Basin, PS, & Blower Pads) | \$ 1,000.00   | \$ 1,765,000.00        |
| 6                                 | 760      | LF   | 24" DIP                             | \$ 400.00     | \$ 304,000.00          |
| 7                                 | 150      | LF   | 12" DIP                             | \$ 300.00     | \$ 45,000.00           |
| 8                                 | 100      | LF   | 10" DIP                             | \$ 250.00     | \$ 25,000.00           |
| 9                                 | 150      | LF   | 6" DIP                              | \$ 150.00     | \$ 22,500.00           |
| 10                                | 1        | LS   | RAS/WAS Pumps, Controls, Etc.       | \$ 200,000.00 | \$ 200,000.00          |
| 11                                | 1        | EA   | Davit Crane                         | \$ 6,000.00   | \$ 6,000.00            |
| 12                                | 1        | LS   | RAS/WAS PS Piping & Valving         | \$ 50,000.00  | \$ 50,000.00           |
| 13                                | 12       | EA   | Diffuser Racks                      | \$ 40,000.00  | \$ 480,000.00          |
| 14                                | 250      | LF   | Air Piping                          | \$ 500.00     | \$ 125,000.00          |
| 15                                | 2        | EA   | Blowers                             | \$ 125,000.00 | \$ 250,000.00          |
| 16                                | 4        | EA   | Mixers                              | \$ 40,000.00  | \$ 160,000.00          |
| 17                                | 1        | LS   | Clarifier Equipment                 | \$ 750,000.00 | \$ 750,000.00          |
| 18                                | 1        | LS   | DO Probe                            | \$ 15,000.00  | \$ 15,000.00           |
| 19                                | 2        | EA   | VFD and Cabinet                     | \$ 40,000.00  | \$ 80,000.00           |
| 20                                | 1        | LS   | Pre-Engineered Shelter              | \$ 15,000.00  | \$ 15,000.00           |
| 21                                | 1        | LS   | Coatings                            | \$ 40,000.00  | \$ 40,000.00           |
| 22                                | 1        | LS   | Misc. Metals                        | \$ 35,000.00  | \$ 35,000.00           |
| 23                                | 6        | EA   | Hydro Static Pressure Valves        | \$ 1,000.00   | \$ 6,000.00            |
| 24                                | 100      | LF   | 2" PVC Water Line                   | \$ 25.00      | \$ 2,500.00            |
| 25                                | 1        | EA   | Yard Hydrant                        | \$ 1,500.00   | \$ 1,500.00            |
| 26                                | 1        | LS   | Electrical                          | \$ 510,000.00 | \$ 510,000.00          |
| 27                                | 600      | LF   | Handrail                            | \$ 150.00     | \$ 90,000.00           |
| 28                                | 6000     | SF   | Crushed Stone Surfacing             | \$ 10.00      | \$ 60,000.00           |
| 29                                | 1        | LS   | Connect to MH                       | \$ 5,000.00   | \$ 5,000.00            |
| 30                                | 1        | LS   | Connection to 12" DIP               | \$ 15,000.00  | \$ 15,000.00           |
| 31                                | 1        | LS   | Connect to 6" DIP                   | \$ 15,000.00  | \$ 15,000.00           |
| 32                                | 1        | LS   | Misc. Site Work                     | \$ 30,000.00  | \$ 30,000.00           |
| 33                                | 1        | LS   | Misc. Piping & Valving              | \$ 40,000.00  | \$ 40,000.00           |
| 34                                | 1        | LS   | Surface Restoration                 | \$ 20,000.00  | \$ 20,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                     |               | <b>\$ 7,136,900.00</b> |

Table 8-24 provides an evaluation of the plant capacity relative to current and future combined Shoal Creek and Crowder conditions considering the additional treatment facilities. Values presented follow the same calculations described in Sections 0 and 8.6.6.

**Table 8-24. Expanded Facility Capacity Evaluation**

|                   |                                                      | Existing Facilities w/ Imp. | Existing Facilities w/ Imp. + 1 Basin | Existing Facilities w/ Imp. + 2 Basins |                                                               | Shoal Creek + Crowder Demand/ Requirement |        |
|-------------------|------------------------------------------------------|-----------------------------|---------------------------------------|----------------------------------------|---------------------------------------------------------------|-------------------------------------------|--------|
|                   |                                                      |                             |                                       |                                        |                                                               | Current                                   | Future |
| Oxidation Ditches | Hydraulic Capacity (MGD)                             | 9.0                         | 13.6                                  | 18.1                                   | Peak Flow (MGD)                                               | 10.5                                      | 12.7   |
|                   | BOD <sub>5</sub> Capacity (lb BOD <sub>5</sub> /day) | 12030                       | 18140                                 | 24250                                  | Max Month BOD <sub>5</sub> Loading (lb BOD <sub>5</sub> /day) | 17877                                     | 21631  |
|                   | Oxygen Supply Capacity (lb O <sub>2</sub> /hr)       | 1300                        | 1950                                  | 2600                                   | Max Month O <sub>2</sub> Demand (lb O <sub>2</sub> /hr)       | 2034                                      | 2461   |
| Clarifiers        | Hydraulic Capacity (MGD)                             | 6.6                         | 10.0                                  | 13.3                                   | Peak Flow (MGD)                                               | 10.5                                      | 12.7   |
|                   | Current Peak SLR (lb/day/sf)                         | 58                          | 39                                    | 29                                     | Max SLR (lb/day/sf)                                           | 40                                        |        |
|                   | Future Peak SLR (lb/day/sf)                          | 71                          | 47                                    | 35                                     |                                                               |                                           |        |
|                   | Weir Loading Rate at Current Peak (gpd/ft)           | 25710                       | 17140                                 | 12855                                  | Max Weir Loading Rate (gpd/ft)                                | 30000                                     |        |
|                   | Weir Loading Rate at Future Peak (gpd/ft)            | 31109                       | 20739                                 | 15554                                  |                                                               |                                           |        |

### 8.7.5 Sludge Storage and Disposal

#### **Construct Additional Sludge Storage – High Priority**

While the Shoal Creek Plant's existing sludge storage facilities have adequate capacity for current and future conditions for Shoal Creek, the facilities are not enough to accommodate flows from Crowder. As such, storage providing a minimum of 21 additional days of storage is required to have at least 120 days of storage. It is recommended that 30 days of additional storage be constructed. Future Shoal Creek and Crowder sludge generation is estimated to be approximately 7,760 gpd. At this rate, approximately 232,800 gallons of additional storage will be required. Considering space, it is proposed that the new tank be constructed in the open area near the two smaller sludge storage tanks. To achieve the necessary volume, it is recommended that a 65' diameter by 11' deep tank be constructed to be of similar depth to the existing two tanks.

Table 8-25 provides a cost estimate for the construction of the proposed sludge storage tank.

**Table 8-25. Cost Estimate for Sludge Storage Tank**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                  | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|------------------------------|---------------|----------------------|
| 1                                 | 2055     | CY   | Excavation                   | \$ 10.00      | \$ 20,550.00         |
| 2                                 | 1500     | CY   | Backfill                     | \$ 15.00      | \$ 22,500.00         |
| 3                                 | 273      | CY   | Concrete                     | \$ 1,000.00   | \$ 273,000.00        |
| 4                                 | 200      | LF   | 10" DIP                      | \$ 200.00     | \$ 40,000.00         |
| 5                                 | 2        | EA   | 10" Plug Valve               | \$ 6,000.00   | \$ 12,000.00         |
| 6                                 | 1        | EA   | Floating Aerator             | \$ 90,000.00  | \$ 90,000.00         |
| 7                                 | 1        | LS   | Decant Piping and Valving    | \$ 30,000.00  | \$ 30,000.00         |
| 8                                 | 6        | EA   | Hydro Static Pressure Valves | \$ 1,000.00   | \$ 6,000.00          |
| 9                                 | 1        | LS   | Electrical                   | \$ 150,000.00 | \$ 150,000.00        |
| 10                                | 1        | LS   | Pump Station Modifications   | \$ 150,000.00 | \$ 150,000.00        |
| 11                                | 1        | LS   | Platform                     | \$ 15,000.00  | \$ 15,000.00         |
| 12                                | 210      | LF   | Handrail                     | \$ 150.00     | \$ 31,500.00         |
| 13                                | 300      | LF   | Sidewalk                     | \$ 60.00      | \$ 18,000.00         |
| 14                                | 1        | LS   | Connect to Pump Station      | \$ 15,000.00  | \$ 15,000.00         |
| 15                                | 1        | LS   | Misc. Site Work              | \$ 20,000.00  | \$ 20,000.00         |
| 16                                | 1        | LS   | Misc. Piping & Valving       | \$ 20,000.00  | \$ 20,000.00         |
| 17                                | 1        | LS   | Surface Restoration          | \$ 15,000.00  | \$ 15,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                              |               | <b>\$ 928,550.00</b> |



### **Construct Centrifuge Sludge Handling Facility – Medium Priority**

Constructing a centrifuge does provide a benefit if Shoal Creek were to treat Crowder's flow. Having this facility would make it so that the plant is not completely dependent on land application for disposing of its waste. In doing so, the plant would not be required to have a minimum of 120 days of storage. This does not provide much meaningful benefit for the Shoal Creek Plant alone since existing sludge storage is adequate. However, this eliminates the need to construct additional sludge storage if treating flow from Crowder. Table 8-26 provides a construction cost estimate for the construction of a centrifuge facility to accommodate sludge from both the Shoal Creek and Crowder plants.

**Table 8-26. Cost Estimate for Construction of Centrifuge Sludge Handling Facility**

| <b>Item No.</b>                   | <b>Units</b> | <b>Quantity</b> | <b>Description</b>               | <b>Unit Price</b> | <b>Totals</b>          |
|-----------------------------------|--------------|-----------------|----------------------------------|-------------------|------------------------|
| 1                                 | LS           | 1               | Centrifuge Equipment             | \$ 500,000.00     | \$ 500,000.00          |
| 2                                 | LS           | 1               | Centrifuge Installation          | \$ 250,000.00     | \$ 250,000.00          |
| 3                                 | LS           | 1               | Sludge Polymer Feed System       | \$ 80,000.00      | \$ 80,000.00           |
| 4                                 | LS           | 1               | Sludge Conveyor System           | \$ 150,000.00     | \$ 150,000.00          |
| 5                                 | SF           | 400             | Sludge Pump Building             | \$ 250.00         | \$ 100,000.00          |
| 6                                 | SF           | 800             | Centrifuge Building              | \$ 250.00         | \$ 200,000.00          |
| 7                                 | LS           | 1               | Sludge and Grinder Pumps         | \$ 150,000.00     | \$ 150,000.00          |
| 8                                 | LS           | 1               | Mixer and Controls               | \$ 85,000.00      | \$ 85,000.00           |
| 9                                 | LS           | 1               | Misc. Piping for Sludge Handling | \$ 80,000.00      | \$ 80,000.00           |
| 10                                | SF           | 10000           | Compost Pad                      | \$ 12.00          | \$ 120,000.00          |
| 11                                | LS           | 1               | Compost Pad Roof Structure       | \$ 150,000.00     | \$ 150,000.00          |
| 12                                | LS           | 1               | Sludge Removal                   | \$ 15,000.00      | \$ 15,000.00           |
| 13                                | LS           | 1               | Painting                         | \$ 50,000.00      | \$ 50,000.00           |
| 14                                | LS           | 1               | Electrical                       | \$ 285,000.00     | \$ 285,000.00          |
| 15                                | LS           | 1               | Sitework                         | \$ 60,000.00      | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |              |                 |                                  |                   | <b>\$ 2,275,000.00</b> |

Considering an annual O&M cost for sludge hauling of approximately \$60,490, it is assumed that the construction of a centrifuge will provide for an estimated 50% reduction in operating costs or an annual savings of approximately \$30,000. Considering this and counting the cost of constructing a new sludge storage tank (Table 8-25) as a reduction from the cost provided in Table 8-26, it is estimated that it will take 40 years for the City to recoup the money associated with constructing a centrifuge. Even with the cost savings associated with not needing to construct an additional sludge storage tank, it is still a long payback period for the City to recoup its

investment in a centrifuge. As such, the City should have further discussions as to the needs for and benefits of installing a centrifuge to determine if it is an improvement they want to pursue for reasons outside of the financial considerations provided here.

### 8.7.6 Filtration

#### **Construct Tertiary Filters – Low Priority**

For the same reasons described previously in Section 8.6.9, tertiary filters may be needed in the future if adequate phosphorus removal cannot be achieved biologically. For also treating flow from Crowder, 12.0 MGD of filtration capacity will be needed. The proposed filter building would be constructed north of the proposed concentric aeration and clarification basins and west of the existing oxidation ditches, requiring more of the existing pond to be filled.

Table 8-27 provides a construction cost estimate for the construction of the tertiary filters.

**Table 8-27. Cost Estimate for Construction of Tertiary Filters**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                 | UNIT PRICE      | TOTAL                  |
|-----------------------------------|----------|------|-----------------------------|-----------------|------------------------|
| 1                                 | 16440    | CY   | Excavation from Borrow Pit  | \$ 8.00         | \$ 131,520.00          |
| 2                                 | 12000    | CY   | Backfill Pond               | \$ 10.00        | \$ 120,000.00          |
| 3                                 | 1700     | CY   | Fill Around Filter Building | \$ 10.00        | \$ 17,000.00           |
| 4                                 | 275      | CY   | Concrete                    | \$ 1,000.00     | \$ 275,000.00          |
| 5                                 | 1        | LS   | Filter Equipment            | \$ 1,900,000.00 | \$ 1,900,000.00        |
| 6                                 | 1        | LS   | Filter Installation         | \$ 475,000.00   | \$ 475,000.00          |
| 7                                 | 1        | LS   | Pumps and Controls          | \$ 150,000.00   | \$ 150,000.00          |
| 8                                 | 3600     | SF   | Filter Building             | \$ 150.00       | \$ 540,000.00          |
| 9                                 | 1        | LS   | Overhead Crane System       | \$ 45,000.00    | \$ 45,000.00           |
| 10                                | 1        | LS   | Site Piping                 | \$ 75,000.00    | \$ 75,000.00           |
| 11                                | 1        | LS   | Site Grading                | \$ 40,000.00    | \$ 40,000.00           |
| 12                                | 1        | LS   | Railing & Misc. Metals      | \$ 40,000.00    | \$ 40,000.00           |
| 13                                | 1        | LS   | Electrical                  | \$ 950,000.00   | \$ 950,000.00          |
| 14                                | 3600     | SF   | Crushed Stone Surfacing     | \$ 10.00        | \$ 36,000.00           |
| 15                                | 1        | LS   | Chemical Feed Equipment     | \$ 60,000.00    | \$ 60,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                             |                 | <b>\$ 4,854,520.00</b> |

### 8.7.7 UV Disinfection

#### **Construct UV Disinfection Structure – High Priority**

As discussed previously, the capacity of the existing UV structure is adequate for current and future Shoal Creek flows. However, the current and future combined peak flows for both Shoal Creek and Crowder are such that additional capacity will be needed. In order to consolidate facilities, it is recommended that a new UV structure with the capacity to treat flow from the entire plant be constructed. To do this, a facility with the ability to be expanded to a capacity of 12.0 MGD by installing additional UV equipment would be constructed downstream of the point where discharge from the two proposed concentric basins ties into the existing 24" effluent line. This new UV structure will need to be constructed at an elevation that allows for the installation of possible future filters to tie in, which may require lowering the existing outfall sewer. The existing UV structure would then be abandoned.

Table 8-28 provides a cost estimate for the construction of a new UV structure.

**Table 8-28. Cost Estimate for UV Disinfection Structure**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                          | UNIT PRICE    | TOTAL                  |
|-----------------------------------|----------|------|--------------------------------------|---------------|------------------------|
| 1                                 | 700      | CY   | Excavation                           | \$ 10.00      | \$ 7,000.00            |
| 2                                 | 725      | CY   | Backfill                             | \$ 15.00      | \$ 10,875.00           |
| 3                                 | 66       | CY   | Concrete                             | \$ 1,000.00   | \$ 66,000.00           |
| 4                                 | 1        | LS   | UV Equipment and Controls            | \$ 650,000.00 | \$ 650,000.00          |
| 5                                 | 1        | LS   | Effluent Weir                        | \$ 35,000.00  | \$ 35,000.00           |
| 6                                 | 1        | LS   | Parshall Flume                       | \$ 30,000.00  | \$ 30,000.00           |
| 7                                 | 1        | LS   | Electrical                           | \$ 260,000.00 | \$ 260,000.00          |
| 8                                 | 400      | LF   | 30" DIP to Replace Ex. Effluent Line | \$ 275.00     | \$ 110,000.00          |
| 9                                 | 400      | LF   | 24" DIP                              | \$ 400.00     | \$ 160,000.00          |
| 10                                | 350      | LF   | 2" Water Line                        | \$ 25.00      | \$ 8,750.00            |
| 11                                | 1        | EA   | Yard Hydrant                         | \$ 1,500.00   | \$ 1,500.00            |
| 12                                | 300      | LF   | Sidewalk                             | \$ 60.00      | \$ 18,000.00           |
| 13                                | 4        | EA   | Slide Gate                           | \$ 12,000.00  | \$ 48,000.00           |
| 14                                | 310      | SF   | Grating & Aluminum Plating           | \$ 150.00     | \$ 46,500.00           |
| 15                                | 1        | LS   | Roof Structure and Trolley           | \$ 75,000.00  | \$ 75,000.00           |
| 16                                | 1        | LS   | Connect to Existing 24" DIP          | \$ 15,000.00  | \$ 15,000.00           |
| 17                                | 1        | LS   | Coatings                             | \$ 20,000.00  | \$ 20,000.00           |
| 18                                | 1        | LS   | Misc. Metals                         | \$ 15,000.00  | \$ 15,000.00           |
| 19                                | 1        | LS   | Misc. Site Work, Piping & Valving    | \$ 40,000.00  | \$ 40,000.00           |
| 20                                | 1        | LS   | Surface Restoration                  | \$ 15,000.00  | \$ 15,000.00           |
| <b>Construction Cost Estimate</b> |          |      |                                      |               | <b>\$ 1,631,625.00</b> |

### 8.7.8 *Electrical Facilities*

#### **Construct Control Building and Install Generator – High Priority**

Considering the additional equipment associated with the proposed expansion of the treatment facilities, it will be necessary to construct a second control building to house controls for the proposed as well as any future improvements. Additionally, the existing generator at the Shoal Creek Plant will need to be replaced with a larger unit to provide adequate backup power to the existing facilities along with the proposed improvements. Table 8-29 provides a cost estimate for a new control building and generator.

**Table 8-29. Cost Estimate for New Control Building and Generator**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION      | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|------------------|---------------|----------------------|
| 1                                 | 600      | SF   | Control Building | \$ 250.00     | \$ 150,000.00        |
| 2                                 | 1        | LS   | Generator        | \$ 300,000.00 | \$ 300,000.00        |
| 3                                 | 1        | LS   | Misc. Piping     | \$ 30,000.00  | \$ 30,000.00         |
| 4                                 | 1        | LS   | Misc. Site Work  | \$ 30,000.00  | \$ 30,000.00         |
| 5                                 | 1        | LS   | Electrical       | \$ 50,000.00  | \$ 50,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                  |               | <b>\$ 560,000.00</b> |

### 8.7.9 *Miscellaneous Improvements to Crowder Facilities*

It is anticipated that some additional improvements will also have to be made to the existing Crowder Wastewater Treatment Plant in order to decommission it. For cost estimating purposes, it will be assumed that the existing treatment facilities will have to be closed and most of the equipment removed.

Flow from the head of the plant will also have to be diverted around the existing facilities to make its way to the Crowder Lift Station. Fortunately, operational personnel have indicated that such a line already exists. While most of this line is indicated to be 24" diameter pipe, some is indicated as being smaller than that. As such, these smaller runs of pipe will have to be replaced. It is also not known what condition the existing pipe is in. Most of the pipes are thought to be VCP, so it is likely that the pipe is not in the best condition. For these reasons, it will be assumed that all pipes will need to be replaced. Prior to design, the existing pipe should be inspected to determine its condition. If its condition is adequate, then less pipe will need to be replaced. For budgeting purposes though, the cost estimate will assume all pipes need replacement. Table 8-30 provides an estimated construction cost for these improvements.

**Table 8-30. Cost Estimate for Miscellaneous Improvements to Crowder WWTP**

| ITEM                              | QUANTITY | UNIT | DESCRIPTION                          | UNIT PRICE    | TOTAL                |
|-----------------------------------|----------|------|--------------------------------------|---------------|----------------------|
| 1                                 | 800      | LF   | 24" Dia. DIP Gravity Sewer           | \$ 400.00     | \$ 320,000.00        |
| 2                                 | 800      | LF   | Surface Restoration                  | \$ 5.00       | \$ 4,000.00          |
| 3                                 | 4        | EA   | 4' Dia. Manholes                     | \$ 10,000.00  | \$ 40,000.00         |
| 4                                 | 2        | EA   | Connection to Existing Facilities    | \$ 15,000.00  | \$ 30,000.00         |
| 5                                 | 1        | LS   | Decommission Existing Facilities     | \$ 200,000.00 | \$ 200,000.00        |
| 6                                 | 1        | LS   | Modifications to Existing Facilities | \$ 20,000.00  | \$ 20,000.00         |
| <b>Construction Cost Estimate</b> |          |      |                                      |               | <b>\$ 614,000.00</b> |

### 8.7.10 Improvement Cost Estimate Summary

Table 8-31 provides a summary of the construction costs presented in Section 8.7 for improvements needed at the existing Shoal Creek Plant to be able to treat wastewater flow from the Crowder Plant. Table 8-31 groups improvements by priority to present a total estimated construction cost for high, medium, and low priority improvements, as well as a total estimated cost for all improvements. Some of the proposed improvements reflect the construction of additional facilities that will certainly require operation and maintenance that is not now required at the Shoal Creek Plant. However, at the time that the Shoal Creek Plant is treating flow from Crowder, the Crowder Plant will be out of operation. As such, any increase in operation and maintenance costs would be expected to be more than offset by no longer needing to operate the Crowder Plant. In this case, with no expected net increase in O&M costs, the construction costs presented would also be considered the same as the present worth costs.

**Table 8-31. Summary of Cost Estimates for Facility Expansion**

| <b>Improvement</b>                                                       | <b>Construction Cost</b> |
|--------------------------------------------------------------------------|--------------------------|
| <b>High Priority Improvements</b>                                        |                          |
| Crowder Pressure Sewer Line Reroute                                      | \$ 77,000.00             |
| Raw Sewage Pumping Structure Renovation                                  | \$ 645,000.00            |
| Grit Removal Facility Construction and Splitter Box Improvements         | \$ 1,093,450.00          |
| Concentric Basin Extended Aeration System Construction - Phase I         | \$ 7,162,080.00          |
| Additional Sludge Storage Construction                                   | \$ 928,550.00            |
| UV Disinfection Structure Construction                                   | \$ 1,631,625.00          |
| Control Building Construction & Generator Installation                   | \$ 560,000.00            |
| Miscellaneous Improvements to Crowder WWTP                               | \$ 614,000.00            |
| <b>Total Estimated Construction Cost of High Priority Improvements</b>   | <b>\$ 12,711,705.00</b>  |
| <b>Medium Priority Improvements</b>                                      |                          |
| Centrifuge Sludge Handling Facility Construction                         | \$ 2,275,000.00          |
| <b>Total Estimated Construction Cost of Medium Priority Improvements</b> | <b>\$ 2,275,000.00</b>   |
| <b>Low Priority Improvements</b>                                         |                          |
| Concentric Basin Extended Aeration System Construction - Phase II        | \$ 7,136,900.00          |
| Tertiary Filter Construction                                             | \$ 4,854,520.00          |
| <b>Total Estimated Construction Cost of Low Priority Improvements</b>    | <b>\$ 11,991,420.00</b>  |
| <b>Total Estimated Construction Cost of All Improvements</b>             | <b>\$ 26,978,125.00</b>  |



## **9.0 RECOMMENDATIONS**

### **9.1 Improvements to Existing Facilities**

Many of the existing facilities at the Shoal Creek Plant are well past the end of their useful life, requiring regular maintenance and repair. In order to maintain proper function and ensure continued compliance with the facility's operating permit, improvements to the plant should be pursued. Section 8.6 describes various improvements that could be implemented to the existing facilities to meet current and future needs. While all improvements discussed are of benefit, not all are of equal importance. Considering this, it is recommended that the improvements identified as a high priority in Section 8.6 are pursued at a minimum. These improvements reflect upgrades and replacements of key components at the treatment facility.

The fact that these facilities have ongoing maintenance needs due to their age presents serious operational challenges for plant personnel. Implementation of the high priority improvements will correct major deficiencies at the plant, providing a boost to operational effectiveness and to the ability of the facilities to handle future system demands. Table 9-1 provides a total project cost estimate for the recommended high priority improvements. Figure 9-1 shows a general layout of the recommended high priority improvements to the existing Shoal Creek WWTP facilities.

**Table 9-1. Cost Estimate for Recommended Improvements to Existing Facilities**

| <b>Improvement</b>                                    | <b>Construction Cost</b> |
|-------------------------------------------------------|--------------------------|
| Raw Sewage Pumping Structure Renovation               | \$ 565,000.00            |
| Oxidation Ditch Retrievable Diffuser Installation     | \$ 2,715,000.00          |
| Clarifier Center Feed Equipment Installation          | \$ 1,050,000.00          |
| RAS/WAS Pump Station Renovation                       | \$ 1,010,000.00          |
| Backup Generator ATS Installation                     | \$ 50,000.00             |
| <b>Construction Cost Subtotal</b>                     | <b>\$ 5,390,000.00</b>   |
| Contingency (10%)                                     | \$ 539,000.00            |
| Engineering - Facility Plan Revisions for SRF Program | \$ 25,000.00             |
| Engineering - Rate Study Update                       | \$ 20,000.00             |
| Engineering - Survey                                  | \$ 20,000.00             |
| Engineering - Design                                  | \$ 427,300.00            |
| Engineering - Bidding                                 | \$ 20,000.00             |
| Engineering - Construction                            | \$ 174,900.00            |
| Engineering - Resident Project Representation*        | \$ 222,500.00            |
| Engineering - Start-Up Services                       | \$ 15,000.00             |
| Engineering - Follow-Up Services                      | \$ 15,000.00             |
| Engineering - O&M Manual Update                       | \$ 35,000.00             |
| Legal, Abstract, Title Work                           | \$ 20,000.00             |
| Loan Fee (5%)                                         | \$ 346,185.00            |
| <b>Total Project Cost</b>                             | <b>\$ 7,269,885.00</b>   |

\*Full Time Resident Project Representation (Up to 190 Days)





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MISSOURI NO. 000427

| DATE | REVISION |
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|      |          |

DWN. BY: WBW  
CKD. BY: RDS  
APPD. BY: RDS  
DATE: JULY 2024

RECOMMENDED IMPROVEMENTS TO EXISTING FACILITIES  
SHOAL CREEK WASTEWATER TREATMENT PLANT EVALUATION  
NEOSHO, MISSOURI

FIGURE

**9-1**



## **9.2 Improvements for Treating Crowder Flow**

Should the City desire to consolidate its treatment facilities by decommissioning the Crowder Plant and sending its flow to the Shoal Creek Plant for treatment, the construction of additional facilities will be needed at the Shoal Creek Plant. As such, most of the improvements described in Section 8.7 are considered high priority as they are necessary for allowing this to happen. Without these high priority improvements at the Shoal Creek Plant, the Crowder Plant must remain operational.

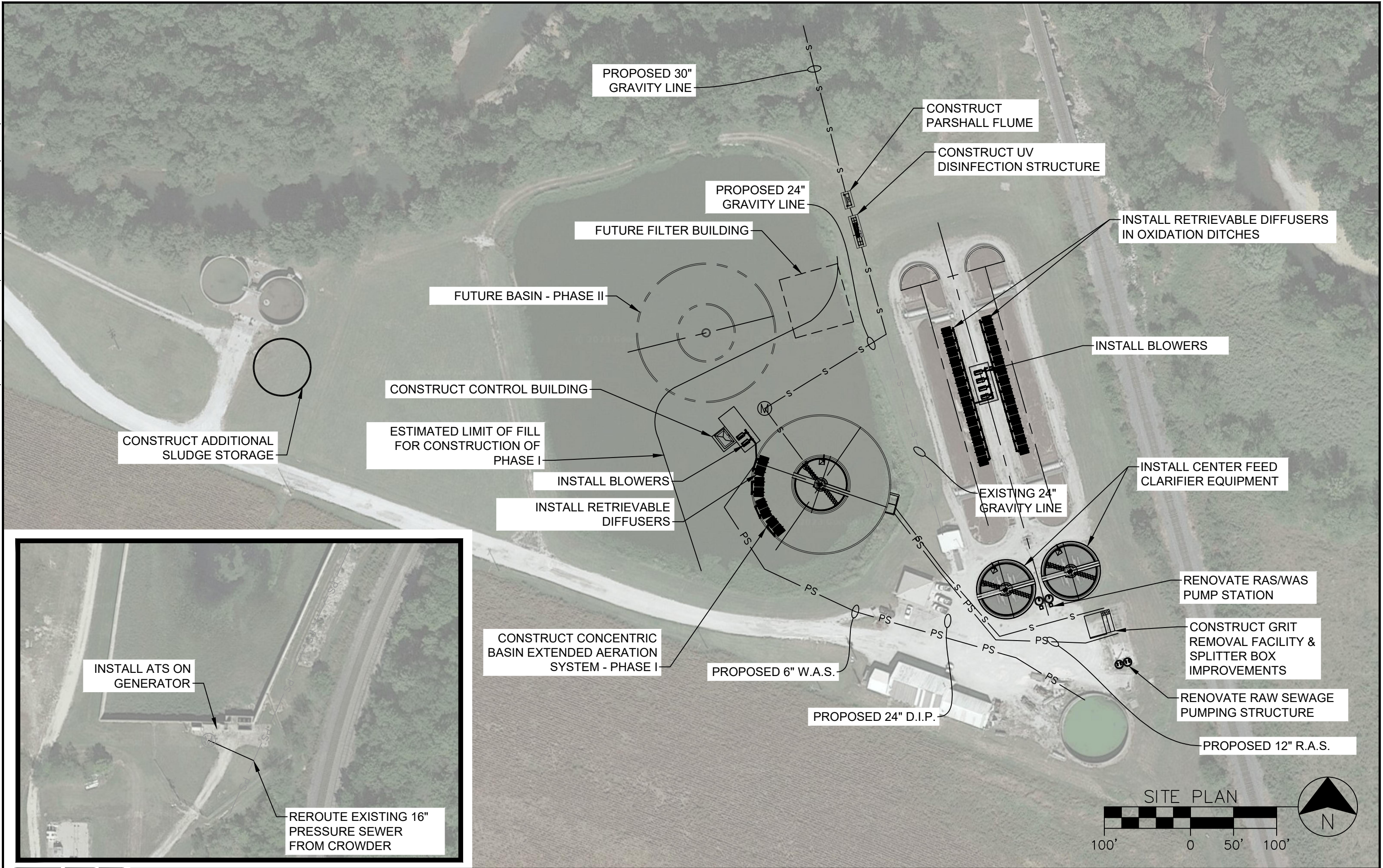
Given that the construction of additional facilities to treat flow from Crowder does not forgo the need for the high priority improvements on the existing system, the improvements from Section 9.1 will still be needed as part of this project as well. Table 9-2 provides a total project cost estimate for all improvements necessary to the existing facilities as well as those needed for Shoal Creek to treat flow from Crowder. Figure 9-2 provides a general layout of the improvements necessary for the Shoal Creek Plant to be able to treat the additional wastewater flow from the Crowder Plant.

**Table 9-2. Cost Estimate for Recommended Improvements Treating Crowder Flow**

| <b>Improvement</b>                                               | <b>Construction Cost</b> |
|------------------------------------------------------------------|--------------------------|
| Raw Sewage Pumping Structure Renovation                          | \$ 645,000.00            |
| Oxidation Ditch Retrievable Diffuser Installation                | \$ 2,715,000.00          |
| Clarifier Center Feed Equipment Installation                     | \$ 1,050,000.00          |
| RAS/WAS Pump Station Renovation                                  | \$ 1,010,000.00          |
| Backup Generator ATS Installation                                | \$ 50,000.00             |
| Crowder Pressure Sewer Line Reroute                              | \$ 77,000.00             |
| Grit Removal Facility Construction and Splitter Box Improvements | \$ 1,093,450.00          |
| Concentric Basin Extended Aeration System Construction - Phase I | \$ 7,162,080.00          |
| Additional Sludge Storage Construction                           | \$ 928,550.00            |
| UV Disinfection Structure Construction                           | \$ 1,631,625.00          |
| Control Building Construction & Generator Installation           | \$ 560,000.00            |
| Miscellaneous Improvements to Crowder WWTP                       | \$ 614,000.00            |
| <b>Construction Cost Subtotal</b>                                | <b>\$ 17,536,705.00</b>  |
| Contingency (10%)                                                | \$ 1,753,671.00          |
| Engineering - Facility Plan Revisions for SRF Program            | \$ 25,000.00             |
| Engineering - Rate Study Update                                  | \$ 20,000.00             |
| Engineering - Survey                                             | \$ 30,000.00             |
| Engineering - Design                                             | \$ 1,197,300.00          |
| Engineering - Bidding                                            | \$ 20,000.00             |
| Engineering - Construction                                       | \$ 478,900.00            |
| Engineering - Resident Project Representation*                   | \$ 462,000.00            |
| Engineering - Start-Up Services                                  | \$ 35,000.00             |
| Engineering - Follow-Up Services                                 | \$ 30,000.00             |
| Engineering - O&M Manual Update                                  | \$ 60,000.00             |
| Geotechnical Investigation                                       | \$ 25,000.00             |
| Legal, Abstract, Title Work                                      | \$ 20,000.00             |
| Loan Fee (5%)                                                    | \$ 1,084,679.00          |
| <b>Total Project Cost</b>                                        | <b>\$ 22,778,255.00</b>  |

\*Full Time Resident Project Representation (Up to 395 Days)





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|      |          |

DWN. BY: WBW  
CKD. BY: RDS  
APPD. BY: RDS  
DATE: JULY 2024

RECOMMENDED IMPROVEMENTS FOR TREATING CROWDER FLOW  
SHOAL CREEK WASTEWATER TREATMENT PLANT EVALUATION  
NEOSHO, MISSOURI

FIGURE

**9-2**



## 10.0 FUNDING

Based on the provided actual values for Fiscal Year 2022, the City reported wastewater system income and expenses to be approximately \$2,200,061 and \$2,846,015, respectively. As part of these expenses, the City also has approximately \$341,225 in annual debt service. Based on the financial data provided for FY 2022, operation and maintenance expenses total to be approximately \$1,129,620.

The City currently has \$2,209,700 in debt service for the sanitary sewer system at the end of FY23. The original loan amount was \$5,488,800, covering several interceptor projects, I&I abatement efforts, and the peak flow equalization and pumping station improvements. The annual payment on the remaining debt service is \$341,225, making the anticipated payoff date for the debt service the year 2030. Additional financial information for the wastewater collection and treatment system has been included in Appendix F. The following paragraphs represent potential funding opportunities applicable to completing this abatement plan in an accelerated manner.

The State of Missouri Clean Water State Revolving Fund (CWSRF) program provides low-interest loans to qualifying cities to construct wastewater facilities. The loan is secured by bonds that are voted by residents of the City and are subsequently sold to the authority that manages the program. SRF loan interest rates are about 70% below the market rate, plus an annual administrative fee of 0.5%, on a 20-year term. Based on current bond markets, it appears that a 2% net cost of borrowing could reasonably be anticipated by the City via SRF participation; includes all loan fees associated with the program and is significantly lower than the bond costs for projects financed outside the SRF program. The SRF program also has provisions for grant funding, but there is no set amount, and in recent years availability of grants has been very limited.

Potential grant funding should be pursued at the time the City moves forward with a project, however, due to uncertainty as to their availability, they cannot be counted on in a funding plan. In order to be eligible for the SRF program, the City would need to pass a bond issue for the amount of the proposed loan and apply it to the program. There is no fee associated with the application to apply to the program.

One grant fund option is the CWSRF Affordability Grant through MDNR which provides up to \$2,000,000 or 50% of the eligible project costs. This grant would be in conjunction with a low-interest CWSRF loan. CWSRF interest rates are 30% of The Bond Buyer's 25-Revenue Bond Index. The City would need to have a complete facility plan and documentation of an acceptable debt instrument in place at the time of application to be considered for grant eligibility. CWSRF

applications are due March 1 of each year and are available at: <https://dnr.mo.gov/document-search/clean-water-state-revolving-fund-loan-application-mo-780-1951>.

Additionally, MDNR offers a Water Quality Incentive (WQI) Grant of up to \$1,000,000 for qualifying project costs, not to exceed 50 percent of the total funding request. Similar to the CWSRF Affordability Grant, this grant would also be in conjunction with a low-interest CWSRF loan and would require a complete facility plan and documentation of a debt instrument in place at the time of application to be considered for grant eligibility.

It should also be noted that applicants with projects eligible for a CWSRF loan with an Affordability Grant may receive that grant as well as a WQI grant for qualifying project costs if the total funding request is over \$4,000,000 and the CWSRF loan is at least \$2,000,000.

According to the SRF eligibility evaluation form, the City of Neosho would most likely not be eligible for a CWSRF Affordability or Water Quality Grant. The City's eligibility is based on population, unemployment rate, median household income (MHI) compared to the state average, proposed user rates as a percentage of MHI, percentage of households below the poverty level, and the population trend over the last ten years. To be eligible, the City needs to score 195 points based on these criteria. Based on the available information, the City currently appears to only score 80 points. While receiving some points for MHI and poverty level, the City's population is too large, the unemployment rate is too low, the monthly sewer rate is too low, and growth is expected to increase which awards the City zero points in those areas. While the City does not appear eligible, eligibility should and will be verified by MDNR upon review of the funding application for a loan. Applications for the CWSRF funding can be submitted directly to the Missouri Department of Natural Resources at: [fac@dnr.mo.gov](mailto:fac@dnr.mo.gov) or P.O. Box 176, Jefferson City, MO 65102-0176, ATTN: Financial Assistance Center.

A typical alternative to procuring a low-interest loan through the SRF program is to look for financial assistance through the Rural Development grant and loan program. The Rural Development loans typically have a similar or slightly higher interest rate than the SRF loan and offer a longer term. The SRF program also offers extended-term financing at an additional 0.25% interest (term not to exceed the useful life of the asset being financed). However, the Rural Development program requires that the community has a population of 10,000 or less. Given that Neosho's population is greater than this, the City would not be eligible for the program.

Rural Development grants also typically require communities to raise their average rate to 2% of the median household income (MHI) while eligibility for CWSRF grants is affected by this criteria as well. For Neosho, the MHI is currently in the range of \$49,301 based on US Census Bureau

statistics. To be eligible for RD grant funding, the average monthly user rate would need to be at least \$82.17 for 5,000 gallons of usage.

The City of Neosho's current rates are as follows:

- Base fee: \$13.52
- Per 1,000 gallons thereafter: \$5.06
- Average for 5,000 gallons = \$38.82

The current average rate appears to be \$38.82, which is less than the 1% of the MHI, thus, well below 2% of the MHI. As such, it's likely that the community would not be eligible for Rural Development grants without a rate increase even if the City had a population of less than 10,000. As mentioned, having higher rates also increases the points awarded to the City for grant fund eligibility through the SRF Program.

The Community Development Block Grant (CDBG) program is another opportunity for grant funds. However, funds are only available to be used as gap funding meaning they must be paired with another funding source to cover costs above funds that are available from the first source. CDBG grants require the community to have greater than 51% of their residents impacted by the project be in the low to moderate-income range. Based on 2015 U.S. Census Bureau information, approximately 47.46% of the City's residents were considered to be in the low to moderate-income bracket, making the City ineligible to receive CDBG grant funding. It should be noted that it is possible to revise the City's LMI value by conducting an income survey. If completed and the survey shows an LMI value greater than 51%, the City would then be eligible for CDBG funds. Should the City pursue CDBG funding, Lyric Stotler with the Department of Economic Development can be contacted at [Lyric.Stotler@ded.mo.gov](mailto:Lyric.Stotler@ded.mo.gov) or (573) 751-2028 or Carrie Campbell with the Harry S. Truman Coordinating Council at [ccampbell@hstcc.org](mailto:ccampbell@hstcc.org) to obtain more information.

In order to be eligible for funding, bonds would need to be passed to cover the total cost of the project if the City does not have adequate unobligated bonds available. If passing a bond issue is required and thought to be problematic, a lease purchase could be considered. In recent years communities have chosen this option over the SRF program in some cases due to the competitive rates that are not much higher than the SRF program currently. There are also fewer requirements and paperwork to qualify for a lease purchase, which can be attractive for some communities.

Considering the City's recent financial information and the size of the proposed project, it should be expected that a rate increase will be necessary to cover the associated costs regardless of the funding source or method.

## 10.1 Estimated Impact on Rates

In order to help the City evaluate its options, this section provides an estimate of the potential impact on sewer rates associated with funding each project. While the values provided here are useful for estimating possible rate changes in general, it will be necessary for a proper rate study to be completed prior to proceeding with a project to assess rate impacts more accurately. Because it appears unlikely that the City will be eligible for grant funds, the rate assessments provided reflect funding all project costs with a low-interest loan. The provided calculations also assume the rate increase will be enough to cover the entirety of the loan payment and does not account for utilizing any existing City funds or income to cover the cost.

Table 10-1 provides an estimated impact on rates should the City have a project to improve the existing facilities, as described in Section 9.1. Table 10-2 provides an estimated impact on rates should the City a project to improve the existing facilities, as described in Section 9.2.

**Table 10-1. Existing Facility Improvement Project Rate Analysis**

| ITEM                            | Loan Only<br>(30 Yr) | Loan Only<br>(20 Yr) |
|---------------------------------|----------------------|----------------------|
| Total Project Cost              | \$7,269,885.00       | \$7,269,885.00       |
| Grant Amount                    | \$0.00               | \$0.00               |
| Loan Amount                     | \$7,269,885.00       | \$7,269,885.00       |
| Annual Interest Rate            | 2%                   | 2%                   |
| Loan Period (Years)             | 30                   | 20                   |
| Annual Payment                  | \$324,237.00         | \$444,917.00         |
| Total Interest Paid             | \$2,457,225.00       | \$1,628,455.00       |
| Total Loan Cost                 | \$9,727,110.00       | \$8,898,340.00       |
| Average Monthly Rate Increase   | \$5.71               | \$7.83               |
| New Average Rate/Mo.            | \$44.53              | \$46.65              |
| New Average Rate Percent of MHI | 1.08%                | 1.14%                |

**Table 10-2. Improvements for Treating Crowder Flow Project Rate Analysis**

| ITEM                            | Loan Only (30 Yr) | Loan Only (20 Yr) |
|---------------------------------|-------------------|-------------------|
| Total Project Cost              | \$22,778,255.00   | \$22,778,255.00   |
| Grant Amount                    | \$0.00            | \$0.00            |
| Loan Amount                     | \$22,778,255.00   | \$22,778,255.00   |
| Annual Interest Rate            | 2%                | 2%                |
| Loan Period (Years)             | 30                | 20                |
| Annual Payment                  | \$1,015,910.00    | \$1,394,029.00    |
| Total Interest Paid             | \$7,699,045.00    | \$5,102,325.00    |
| Total Loan Cost                 | \$30,477,300.00   | \$27,880,580.00   |
| Average Monthly Rate Increase   | \$17.88           | \$24.54           |
| New Average Rate/Mo.            | \$56.70           | \$63.36           |
| New Average Rate Percent of MHI | 1.38%             | 1.54%             |

## **11.0 ANTIDegradation REVIEW**

Modification of the Shoal Creek Wastewater Treatment Plant may require that the Missouri Antidegradation Rule and Implementation Procedure be complied with prior to the issuance of a new construction or operating permit for the facility. This is more likely to be true for the improvements needed to treat wastewater from the Crowder Plant considering the capacity of the Shoal Creek Plant will be increased. As a part of the antidegradation review process, effluent limits must be derived for the expanded treatment plant, and evidence must be provided to MDNR showing that the anticipated increase in effluent discharge will not result in the degradation of Shoal Creek.



## **12.0 ENVIRONMENTAL INFORMATION**

As a requirement of the environmental review of Clean Water State Revolving Fund (SRF) projects, the facilities plan must include environmental information as set forth in 10 CSR 20-4.050(2)(B). Several specific items were not included in the previous sections of this report and are therefore discussed herein.

### **12.1 Irreversible and Irretrievable Commitment of Resources**

Construction of the proposed project, as with any typical construction effort of this type, would involve the use of fossil fuels, primarily for the operation of construction vehicles and equipment. Additionally, and to a lesser degree, future operation and maintenance of the facility would require the commitment of additional energy resources. A portion of the electrical power to the facility is likely generated from fossil fuels which could be considered irreversible and irretrievable.

Under the proposed project, currently undeveloped areas may be converted to structures, and driving surfaces, resulting in the potential loss of topsoil. During construction, building materials such as concrete, asphalt, steel, wire, wood, plastic, etc. will be utilized resulting in an irreversible loss of these materials.

Finally, the proposed improvements to the wastewater treatment plant will allow for adequate wastewater treatment facilities for the City of Neosho, resulting in an ability to accommodate additional growth. The factors combined to allow such development would likely result in a long-term conversion of currently undeveloped lands to residential and other land uses.

### **12.2 Future Environment Without the Project**

The future environmental conditions in the Neosho area under the “no project” alternative are important to the planning process. No changes in topography, geology, climate, or hydrology are anticipated to occur with or without the project. The greatest potential effects will be on water quality and demographics.

The primary purpose of this study is to set forth recommended improvements to Neosho’s wastewater system to allow the treatment facility’s ability to continue to meet regulatory effluent limitations. Whether wastewater flows and loads increase or stay the same, the quality of effluent from the existing facilities can be expected to deteriorate due to the aging of the plant equipment. As effluent quality approaches the permit limits, development in Neosho will be curtailed, either by the City or by State mandate, until provisions are made to upgrade the plant to meet effluent limits.

### **12.3 Potential Environmental Impacts**

The only unavoidable adverse impacts resulting from the selected plan are short-term noise and minor air pollution caused by construction equipment necessary to complete the project. The project itself will not produce air pollution, objectionable odors, or noise pollution, nor will it relocate any citizens. Any archaeological or cultural sites that may be unearthed during construction will be adequately inspected and cultural material will be salvaged, if warranted, by trained archaeologists. Construction of the improvements is not expected to substantially change present land use patterns, and no significant environmental impacts are anticipated as a result of this expansion.

### **12.4 Short-Term Uses Versus Long-Term Productivity**

Construction of the proposed facilities would result in short-term construction-related impacts such as interference with local traffic, limited air emissions, increase in ambient noise levels, dust generation, disturbance of wildlife, and increased storm runoff. These impacts would be temporary and would occur only during construction. They are not expected to alter the long-term productivity of the natural environment.

The project would assist in the long-term productivity of the Neosho area by supporting the adequacy of the City's wastewater treatment facilities, thereby allowing continued growth and economic development in and around the City. The long-term benefits of the proposed project outweigh the mitigable short-term impacts to the environment resulting from project construction.

## **Appendix A – Current Missouri State Operating Permit**

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
MISSOURI CLEAN WATER COMMISSION



## MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Permit No.                      | MO-0104906                                                                          |
| Owner:                          | City of Neosho                                                                      |
| Address:                        | 203 East Main Street, Neosho, MO 64850                                              |
| Continuing Authority:           | Same as above                                                                       |
| Address:                        | Same as above                                                                       |
| Facility Name:                  | Neosho Wastewater Treatment Plant                                                   |
| Facility Address:               | Old Scenic Drive 0.1 miles north of Jefferson Avenue intersection, Neosho, MO 64850 |
| Legal Description:              | See Page 2.                                                                         |
| UTM Coordinates:                | See Page 2.                                                                         |
| Receiving Stream:               | See Page 2.                                                                         |
| First Classified Stream and ID: | See Page 2.                                                                         |
| USGS Basin & Sub-watershed No.: | See Page 2.                                                                         |

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

### FACILITY DESCRIPTION

See Page 2.

This permit authorizes only wastewater and stormwater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 621.250 RSMo, Section 640.013 RSMo and Section 644.051.6 of the Law.

May 1, 2017  
Effective Date

  
Steven Feeler, Acting Director, Division of Environmental Quality

April 30, 2022  
Expiration Date

  
David J. Lamb, Acting Director, Water Protection Program

## **FACILITY DESCRIPTION (continued):**

This permit includes two wastewater treatment facilities which serve the City of Neosho. These facilities were previously permitted separately – Neosho Crowder WWTP (MO-0039926) and Neosho Shoal Creek WWTP (MO-0104906). During normal operations at the Neosho Crowder WWTP, effluent is sent to the Neosho Shoal Creek WWTP, where effluent from the two plants mix together prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Therefore, it has been determined by the permit writer that combining the two permits into one permit is appropriate. The use or operation of this facility shall be by or under the supervision of a Certified A Operator.

### **Outfall #001 – Main Facility Outfall at Neosho Shoal Creek WWTP – POTW – SIC #4952**

Flow equalization basin / bar screen / 2 oxidation ditches / 2 final clarifiers / ultraviolet disinfection / aerobic sludge digester / 2 aerated sludge holding basins / sludge is land applied. Ultraviolet disinfection system has a design flow capability of 6 MGD to treat combined effluent flows from both the Neosho Shoal Creek WWTF and the Neosho Crowder WWTF.

Design population equivalent is 30,000.

Design flow is 3.0 MGD.

Actual flow is 1.7 MGD.

Design sludge production is 630 dry tons/year.

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Legal Description:              | SE ¼, SE ¼, Sec. 12, T25N, R32W, Newton County |
| UTM Coordinates:                | X= 377523, Y= 4084102                          |
| Receiving Stream and ID:        | Shoal Creek (P) (3222) 303(d) List             |
| First Classified Stream and ID: | Shoal Creek (P) (3222) 303(d) List             |
| USGS Basin & Sub-watershed No.: | (11070207-0804)                                |

### **Outfall #002 – Discharge at Neosho Crowder WWTP (previously permitted as Outfall #001 in MO-0039926)**

Flow equalization basin / bar screen / 2 pre-aeration basins / 2 primary clarifiers / 3 trickling filters / recirculation basin / 3 secondary clarifiers / chlorine disinfection / chlorine contact basin / dechlorination / 2 primary aerobic sludge digesters / sludge drying bed / sludge is land applied.

Design population equivalent is 29,000.

Design flow is 3.0 MGD.

Actual flow is 0.92 MGD.

Design sludge production is 812 dry tons/year.

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Legal Description:              | SW ¼, SE ¼, Sec. 09, T24N, R32W, Newton County |
| UTM Coordinates:                | X= 376620, Y= 4075426                          |
| Receiving Stream:               | Tributary to Buffalo Creek (losing)            |
| First Classified Stream and ID: | 8-20-13 MUDD V1.0 (C) (3960) (losing)          |
| USGS Basin & Sub-watershed No.: | (11070208-0401)                                |

### **Outfall #003 – Discharge Point to the Golf Course Irrigation Storage Ponds**

This location has been identified in the permit in order to document the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds. Effluent discharged from Outfall #003 receives the same treatment as effluent discharged from Outfall #002. This permit does not include final effluent limitations for this location, as effluent sampling is not possible at the storage ponds. However, Internal Monitoring Point #IP2 has been created by the permit writer in order to monitor effluent quality prior to the discharge to at Outfall #003.

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Legal Description:              | SE ¼, NW ¼, Sec. 35, T25N, R32W, Newton County |
| UTM Coordinates:                | X= 374823, Y= 4078567                          |
| Receiving Stream:               | Tributary to Buffalo Creek (losing)            |
| First Classified Stream and ID: | 8-20-13 MUDD V1.0 (C) (3960) (losing)          |
| USGS Basin & Sub-watershed No.: | (11070208-0401)                                |

### **Internal Monitoring Point #IP1 – Influent Monitoring Location for Neosho Crowder WWTP**

Internal Monitoring Point #IP1 is the location where influent monitoring of the Neosho Crowder WWTP shall take place. Influent monitoring at this location is necessary in order to determine the removal efficiency of the Neosho Crowder WWTP prior to the mixing of the two effluents at the Neosho Shoal Creek WWTP.

|                    |                                                |
|--------------------|------------------------------------------------|
| Legal Description: | NE ¼, NE ¼, Sec. 16, T24N, R32W, Newton County |
| UTM Coordinates:   | X= 376928, Y= 4075240                          |

**Internal Monitoring Point #IP2 – Effluent Monitoring Location for Neosho Crowder WWTP – Golf Course Irrigation Storage Ponds**

Internal Monitoring Point #IP2 is the location where effluent monitoring of the Neosho Crowder WWTP shall take place when effluent is being sent to the golf course irrigation storage ponds. Water storage at the golf course includes three (3) interconnected storage ponds, the last of which, has the potential to discharge. If a discharge did occur from the final storage pond, the water being discharged would not be representative of the effluent contribution from the Neosho Crowder WWTP as there are other sources contributing to the storage ponds. Therefore, it has been determined by the permit writer that effluent must be monitored prior to the discharge to the golf course irrigation storage ponds in order to determine compliance with final effluent limitations. Due to the fact that there is no location for sample collection once effluent is being routed to the golf course irrigation ponds, the location of Internal Monitoring Point #IP2 is in the chlorine contact basin, where effluent has been subject to the full treatment of the Neosho Crowder WWTP.

Legal Description: NE ¼, NE ¼, Sec. 16, T24N, R32W, Newton County  
UTM Coordinates: X= 376753, Y= 4075394

**Internal Monitoring Point #IP3 – Effluent Monitoring Location During Normal Operations for Neosho Crowder WWTP**

Internal Monitoring Point #IP3 is the location where effluent monitoring of the Neosho Crowder WWTP shall take place when effluent is being sent to the Neosho Shoal Creek WWTP. Effluent from the Neosho Crowder WWTP mixes with effluent from the Neosho Shoal Creek WWTP just prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Prior to the mixing of the two effluents, the permittee has the ability to collect samples of effluent from a Parshall Flume at the Neosho Crowder WWTP. Therefore, Internal Monitoring Point #IP3 is located in the effluent stream which includes only the Neosho Crowder WWTP effluent at the Neosho Shoal Creek WWTP. Monitoring at this location is necessary so the permittee can collect samples to determine compliance with technology based requirements for the Neosho Crowder WWTP prior to the mixing of the two effluents.

Legal Description: NE ¼, NE ¼, Sec. 13, T25N, R32W, Newton County  
UTM Coordinates: X= 377603, Y= 4083919

**Internal Monitoring Point #IP4 – Influent Monitoring Location for Neosho Shoal Creek WWTP**

Internal Monitoring Point #IP4 is the location where influent monitoring of the Neosho Shoal Creek WWTP shall take place. Influent monitoring at this location is necessary in order to determine the removal efficiency of the Neosho Shoal Creek WWTP prior to the mixing of the two effluents at the Neosho Shoal Creek WWTP.

Legal Description: NE ¼, NE ¼, Sec. 13, T25N, R32W, Newton County  
UTM Coordinates: X= 377666, Y= 4083897

**Internal Monitoring Point #IP5 – Effluent Monitoring Location for Neosho Shoal Creek WWTP prior to Effluents Mixing**

Internal Monitoring Point #IP5 is the location where effluent monitoring of the Neosho Shoal Creek WWTP shall take place prior to the mixing of the two effluents at the Neosho Shoal Creek WWTP. Effluent from the Neosho Crowder WWTP mixes with effluent from the Neosho Shoal Creek WWTP just prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Prior to the mixing of the two effluents, the permittee has the ability to collect samples of effluent from a Parshall Flume at the Neosho Shoal Creek WWTP. Therefore, Internal Monitoring Point #IP5 is located in the effluent stream which includes only the Neosho Shoal Creek WWTP. Monitoring at this location is necessary so the permittee can collect samples to determine compliance with technology based requirements for the Neosho Shoal Creek WWTP prior to the mixing of the two effluents.

Legal Description: NE ¼, NE ¼, Sec. 13, T25N, R32W, Newton County  
UTM Coordinates: X= 377612, Y= 4083922

**Permitted Feature #SM1 – Instream (Upstream) Monitoring Location at Neosho Shoal Creek Wastewater Treatment Plant**

Instream monitoring location – See Special Condition #20

Receiving Stream and ID: Shoal Creek (P) (3222) 303(d) List  
First Classified Stream and ID: Shoal Creek (P) (3222) 303(d) List  
USGS Basin & Sub-watershed No.: (11070207-0804)

**Permitted Feature #SM2 – Instream (Downstream) Monitoring Location at Neosho Shoal Creek Wastewater Treatment Plant**

Instream monitoring location – ¼ mile downstream of Outfall #001 to ensure samples are taken outside of the mixing zone.

Receiving Stream and ID: Shoal Creek (P) (3222) 303(d) List  
First Classified Stream and ID: Shoal Creek (P) (3222) 303(d) List  
USGS Basin & Sub-watershed No.: (11070207-0804)



| <b><u>OUTFALL #001:</u></b><br>Main Facility Outfall at Neosho Shoal Creek WWTP                                                                                                                                                                                                                                                                                                  | <b>TABLE A-1.</b><br><b>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                              |                |                 |                         |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|----------------|-----------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect through <b><u>April 30, 2018</u></b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                      |                              |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                            | UNITS                                                                                | INTERIM EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      | DAILY MAXIMUM                | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                                             | MGD                                                                                  | *                            |                | *               | once/day                | 24 hr. total |
| Ammonia as N                                                                                                                                                                                                                                                                                                                                                                     | mg/L                                                                                 | *                            |                | *               | twice/month             | grab         |
| <i>E. coli</i> (Note 1)                                                                                                                                                                                                                                                                                                                                                          | #/100mL                                                                              |                              | 630            | 126             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                                |                                                                                      |                              |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                            | UNITS                                                                                | MINIMUM                      |                | MAXIMUM         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units *****                                                                                                                                                                                                                                                                                                                                                                 | SU                                                                                   | 6.0                          |                | 9.0             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                                            |                                                                                      |                              |                |                 |                         |              |

| <u><b>OUTFALL #001:</b></u><br>Main Facility Outfall at Neosho Shoal Creek WWTP                                                                                                                                                                                                                                                                                         | <b>TABLE A-2.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u><b>May 1, 2018</b></u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                    |                            |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                                    | MGD                                                                                | *                          |                | *               | once/day                | 24 hr. total |
| Ammonia as N<br>(Apr 1 – Sep 30)<br>(Oct 1 – Mar 31)                                                                                                                                                                                                                                                                                                                    | mg/L                                                                               | 6.1<br>11.9                |                | 1.2<br>2.2      | twice/month             | grab         |
| <i>E. coli</i> (Note 1)                                                                                                                                                                                                                                                                                                                                                 | #/100mL                                                                            |                            | 630            | 126             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2018</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                       |                                                                                    |                            |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | MINIMUM                    |                | MAXIMUM         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                         | SU                                                                                 | 6.0                        |                | 9.0             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2018</u> .                                                                                                                                                                                                                                                                   |                                                                                    |                            |                |                 |                         |              |

\* Monitoring requirement only.

\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 1 – Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean. The Weekly Average for *E. coli* will be expressed as a geometric mean if more than one (1) sample is collected during a calendar week (Sunday through Saturday).

| OUTFALL #001:<br>Main Facility Outfall at Neosho Shoal<br>Creek WWTP                                                                                                                                                                                                                                                                                               |       | TABLE A-3.<br>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b>May 1, 2017</b> and remain in effect through <b>April 30, 2018</b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                        |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                              | UNITS | INTERIM EFFLUENT LIMITATIONS                                           |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                    |       | DAILY MAXIMUM                                                          | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                       | mg/L  | 15                                                                     |                | 10              | once/quarter***         | grab        |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                     | mg/L  | *                                                                      |                | *               | once/quarter***         | grab        |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                      |                | *               | once/quarter***         | grab        |
| Phenol                                                                                                                                                                                                                                                                                                                                                             | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | 2.9                                                                    |                | 1.0             | once/quarter***         | composite** |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                  | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                           | µg/L  | *                                                                      |                | *               | once/quarter***         | grab        |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | 36                                                                     |                | 17.1            | once/quarter***         | composite** |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2017</u> .                                                                                                                                                                                                                                                            |       |                                                                        |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Quarterly Parameters                                 | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

| <b>OUTFALL #001:</b><br>Main Facility Outfall at Neosho Shoal<br>Creek WWTP                                                                                                                                                                                                                                                                                      |       | <b>TABLE A-4.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                |                 |                         |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b>May 1, 2018</b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                                    |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS | FINAL EFFLUENT LIMITATIONS                                                         |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                  |       | DAILY MAXIMUM                                                                      | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                     | mg/L  | 15                                                                                 |                | 10              | once/quarter***         | grab        |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                                  |                | *               | once/quarter***         | grab        |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                 | mg/L  | *                                                                                  |                | *               | once/quarter***         | grab        |
| Phenol                                                                                                                                                                                                                                                                                                                                                           | µg/L  | 4,200.5                                                                            |                | 1,316.3         | once/quarter***         | composite** |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | 0.6                                                                                |                | 0.3             | once/quarter***         | composite** |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                | µg/L  | *                                                                                  |                | *               | once/quarter***         | composite** |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                         | µg/L  | *                                                                                  |                | *               | once/quarter***         | grab        |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | *                                                                                  |                | *               | once/quarter***         | composite** |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 1,849.6                                                                            |                | 702.5           | once/quarter***         | composite** |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                                  |                | *               | once/quarter***         | composite** |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | *                                                                                  |                | *               | once/quarter***         | composite** |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | *                                                                                  |                | *               | once/quarter***         | composite** |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                      | µg/L  | 9.2                                                                                |                | 3.2             | once/quarter***         | composite** |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                                  |                | *               | once/quarter***         | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> .                                                                                                                                                                                                                                                          |       |                                                                                    |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Quarterly Parameters                                 | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

| <b><u>OUTFALL #002:</u></b><br>Discharge at Neosho Crowder WWTP                                                                                                                                                                                                                                                                                                                  | <b>TABLE A-5.</b><br><b>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                              |                |                 |                         |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect through <b><u>April 30, 2022</u></b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                      |                              |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                            | UNITS                                                                                | INTERIM EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      | DAILY MAXIMUM                | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                                 | lbs/day                                                                              | *                            |                |                 | once/day                | grab        |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2017</u></b> .                                                                                                                                                                                                                                                              |                                                                                      |                              |                |                 |                         |             |

| <b><u>OUTFALL #002:</u></b><br>Discharge at Neosho Crowder WWTP                                                                                                                                                                                                                                                                                                         | <b>TABLE A-6.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b><u>May 1, 2022</u></b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                    |                            |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                        | lbs/day                                                                            | 12.51                      |                |                 | once/day                | grab        |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2022</u></b> .                                                                                                                                                                                                                                                     |                                                                                    |                            |                |                 |                         |             |

| <b><u>INTERNAL MONITORING</u></b><br><b><u>POINT #IP2:</u></b><br>Discharge at Golf Course Irrigation<br>Storage Ponds                                                                                                                                                                                                                                                  | <b>TABLE A-7.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                    |                            |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                              | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Phosphorus                                                                                                                                                                                                                                                                                                                                                        | mg/L                                                                               | *                          |                | *               | once/quarter***         | grab        |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2017</u> .                                                                                                                                                                                                                                                                 |                                                                                    |                            |                |                 |                         |             |

\* Monitoring requirement only.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Internal Monitoring Point #IP2 – Total Phosphorus    | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

| <u>OUTFALL #002 &amp; INTERNAL MONITORING POINT #IP2:</u><br>Discharge at Neosho Crowder WWTP & Golf Course Irrigation Storage Ponds                                                                                                                                                                                                                             |         | TABLE A-8.<br>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------|----------------|-----------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u>May 1, 2017</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |         |                                                                      |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS   | FINAL EFFLUENT LIMITATIONS                                           |                |                 | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                  |         | DAILY MAXIMUM                                                        | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                             | MGD     | *                                                                    |                | *               | once/day                | 24 hr. total |
| Biochemical Oxygen Demand <sub>5</sub>                                                                                                                                                                                                                                                                                                                           | mg/L    |                                                                      | 15             | 10              | once/week               | composite**  |
| Total Suspended Solids                                                                                                                                                                                                                                                                                                                                           | mg/L    |                                                                      | 20             | 15              | once/week               | composite**  |
| Ammonia as N<br>(Apr 1 – Sep 30)<br>(Oct 1 – Mar 31)                                                                                                                                                                                                                                                                                                             | mg/L    | 3.6<br>7.5                                                           |                | 1.4<br>2.9      | twice/month             | grab         |
| E. coli (Note 2)                                                                                                                                                                                                                                                                                                                                                 | #/100mL | 126                                                                  |                | *               | once/week               | grab         |
| Total Residual Chlorine (Note 3)                                                                                                                                                                                                                                                                                                                                 | µg/L    | < 130                                                                |                | < 130           | once/week               | grab         |
| Nitrates as N                                                                                                                                                                                                                                                                                                                                                    | mg/L    | *                                                                    |                | *               | once/month              | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                |         |                                                                      |                |                 |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS   | MINIMUM                                                              |                | MAXIMUM         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units *****                                                                                                                                                                                                                                                                                                                                                 | SU      | 6.5                                                                  |                | 9.0             | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                            |         |                                                                      |                |                 |                         |              |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 2 –Effluent limits of 126 #/100 mL daily maximum and monitoring only for monthly average for *E. coli* are applicable year round due to losing stream designation. No more than 10% of samples over the course of a calendar year shall exceed the 126 #/100 mL daily maximum.

Note 3 – This permit contains a Total Residual Chlorine (TRC) limit.

- The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be 17 µg/L (daily maximum limit) and 8 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 µg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit. Measured values greater than or equal to the minimum quantification level of 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/L will be considered to be in compliance with the permit limitation.
- Disinfection is required year-round.
- Do not chemically de-chlorinate **if it is not needed to meet the limits in your permit.**
- If no chlorine was used in a given sampling period, an actual analysis for TRC is not necessary. Simply report as “0 µg/L” for TRC.

| <u>OUTFALL #002 &amp; INTERNAL MONITORING POINT #IP2:</u><br>Discharge at Neosho Crowder WWTP & Golf Course Irrigation Storage Ponds                                                                                                                                                                                                                               |       | TABLE A-9.<br>INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <b>May 1, 2017</b> and remain in effect through <b>April 30, 2018</b> . Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                        |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                              | UNITS | INTERIM EFFLUENT LIMITATIONS                                           |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                    |       | DAILY MAXIMUM                                                          | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Hardness                                                                                                                                                                                                                                                                                                                                                     | mg/L  | *                                                                      |                | *               | once/quarter***         | grab        |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                       | mg/L  | 15                                                                     |                | 10              | once/quarter***         | grab        |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                     | mg/L  | *                                                                      |                | *               | once/quarter***         | grab        |
| 1,2-dichloroethane                                                                                                                                                                                                                                                                                                                                                 | µg/L  | 10.05                                                                  |                | 5.00            | once/quarter***         | grab        |
| 1,1,1-trichloroethane                                                                                                                                                                                                                                                                                                                                              | µg/L  | 402.0                                                                  |                | 200.0           | once/quarter***         | grab        |
| 1,1,2-trichloroethane                                                                                                                                                                                                                                                                                                                                              | µg/L  | 10.05                                                                  |                | 5.00            | once/quarter***         | grab        |
| Cyanide, Amenable to Chlorination<br>(Note 4, Page 11)                                                                                                                                                                                                                                                                                                             | µg/L  | < 10                                                                   |                | < 10            | once/quarter***         | grab        |
| Phenol                                                                                                                                                                                                                                                                                                                                                             | µg/L  | 201.0                                                                  |                | 100.0           | once/quarter***         | composite** |
| Sulfates                                                                                                                                                                                                                                                                                                                                                           | µg/L  | 502.5                                                                  |                | 250.0           | once/quarter***         | composite** |
| Boron, Total Dissolved                                                                                                                                                                                                                                                                                                                                             | µg/L  | 4,020.0                                                                |                | 2,000.0         | once/quarter***         | composite** |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | 0.6                                                                    |                | 0.3             | once/quarter***         | composite** |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                  | µg/L  | 348                                                                    |                | 174             | once/quarter***         | composite** |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                           | µg/L  | 16                                                                     |                | 8               | once/quarter***         | grab        |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 24                                                                     |                | 12              | once/quarter***         | composite** |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | 9.7                                                                    |                | 5.0             | once/quarter***         | composite** |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                         | µg/L  | 0.9                                                                    |                | 0.5             | once/quarter***         | composite** |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 131                                                                    |                | 65              | once/quarter***         | composite** |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | *                                                                      |                | *               | once/quarter***         | composite** |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                            | µg/L  | 295                                                                    |                | 147             | once/quarter***         | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2017</u> .                                                                                                                                                                                                                                                            |       |                                                                        |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table on Page 11 for quarterly sampling requirements.



| <u>OUTFALL #002 &amp; INTERNAL MONITORING POINT #IP2:</u><br>Discharge at Neosho Crowder WWTP & Golf Course Irrigation Storage Ponds                                                                                                                                                                                                                             |       | TABLE A-10.<br>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |                |                 |                         |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b>May 1, 2018</b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                       |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                            | UNITS | FINAL EFFLUENT LIMITATIONS                                            |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                  |       | DAILY MAXIMUM                                                         | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Total Hardness                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                     |                | *               | once/quarter***         | grab        |
| Oil & Grease                                                                                                                                                                                                                                                                                                                                                     | mg/L  | 15                                                                    |                | 10              | once/quarter***         | grab        |
| Total Nitrogen                                                                                                                                                                                                                                                                                                                                                   | mg/L  | *                                                                     |                | *               | once/quarter***         | grab        |
| 1,2-dichloroethane                                                                                                                                                                                                                                                                                                                                               | µg/L  | 10.05                                                                 |                | 5.00            | once/quarter***         | grab        |
| 1,1,1-trichloroethane                                                                                                                                                                                                                                                                                                                                            | µg/L  | 402.0                                                                 |                | 200.0           | once/quarter***         | grab        |
| 1,1,2-trichloroethane                                                                                                                                                                                                                                                                                                                                            | µg/L  | 10.05                                                                 |                | 5.00            | once/quarter***         | grab        |
| Cyanide, Amenable to Chlorination<br>(Note 4, Page 11)                                                                                                                                                                                                                                                                                                           | µg/L  | < 10                                                                  |                | < 10            | once/quarter***         | grab        |
| Phenol                                                                                                                                                                                                                                                                                                                                                           | µg/L  | 201.0                                                                 |                | 100.0           | once/quarter***         | composite** |
| Sulfates                                                                                                                                                                                                                                                                                                                                                         | µg/L  | 502.5                                                                 |                | 250.0           | once/quarter***         | composite** |
| Boron, Total Dissolved                                                                                                                                                                                                                                                                                                                                           | µg/L  | 4,020.0                                                               |                | 2,000.0         | once/quarter***         | composite** |
| Cadmium, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | 0.6                                                                   |                | 0.3             | once/quarter***         | composite** |
| Chromium (III), Total Recoverable                                                                                                                                                                                                                                                                                                                                | µg/L  | 210.2                                                                 |                | 104.8           | once/quarter***         | composite** |
| Chromium (VI), Dissolved                                                                                                                                                                                                                                                                                                                                         | µg/L  | 15.0                                                                  |                | 7.5             | once/quarter***         | grab        |
| Copper, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | 22.0                                                                  |                | 11.0            | once/quarter***         | composite** |
| Iron, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | *                                                                     |                | *               | once/quarter***         | composite** |
| Lead, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 9.7                                                                   |                | 4.8             | once/quarter***         | composite** |
| Mercury, Total Recoverable                                                                                                                                                                                                                                                                                                                                       | µg/L  | 0.8                                                                   |                | 0.4             | once/quarter***         | composite** |
| Nickel, Total Recoverable                                                                                                                                                                                                                                                                                                                                        | µg/L  | 128.9                                                                 |                | 64.3            | once/quarter***         | composite** |
| Selenium, Total Recoverable                                                                                                                                                                                                                                                                                                                                      | µg/L  | *                                                                     |                | *               | once/quarter***         | composite** |
| Zinc, Total Recoverable                                                                                                                                                                                                                                                                                                                                          | µg/L  | 180.7                                                                 |                | 90.1            | once/quarter***         | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> .                                                                                                                                                                                                                                                          |       |                                                                       |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\* See table on Page 11 for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                      |                          |
|-------------------------------|-----------------------------|------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Quarterly Parameters                                 | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter | January 28 <sup>th</sup> |

Note 4 – The Water Quality Based Effluent Limit for Cyanide amenable to chlorination was calculated to be 8.2 µg/L (daily maximum limit) and 4.1 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved Cyanide amenable to chlorination methods. The Department has determined the current acceptable ML of Cyanide Amenable to Chlorination (CATC) to be 10 µg/L when using SM 4500-CN<sup>-</sup>G. Cyanides Amenable to Chlorination after Distillation in *Standard Methods for the Examination of Water and Wastewater*, 22<sup>nd</sup>. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 10 µg/L will be considered violations of the permit and values less than the minimum quantification level of 10 µg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of cyanide in excess of the effluent limits stated in the permit.

| <u><b>INTERNAL MONITORING</b></u><br><u><b>POINT #IP3:</b></u><br>Effluent Monitoring during Normal<br>Operations for Neosho Crowder WWTP                                                                                                                                                                                                                               |       | <u><b>TABLE A-11.</b></u><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                |                         |                         |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|----------------|-------------------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u><b>May 1, 2017</b></u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                                            |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS | FINAL EFFLUENT LIMITATIONS                                                                 |                |                         | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                         |       | DAILY MAXIMUM                                                                              | WEEKLY AVERAGE | MONTHLY AVERAGE         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                                    | MGD   | *                                                                                          |                | *                       | once/day                | 24 hr. total |
| Biochemical Oxygen Demand <sub>5</sub>                                                                                                                                                                                                                                                                                                                                  | mg/L  |                                                                                            | 65             | 45                      | once/week               | composite**  |
| Total Suspended Solids                                                                                                                                                                                                                                                                                                                                                  | mg/L  |                                                                                            | 65             | 45                      | once/week               | composite**  |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                                       |       |                                                                                            |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS | MINIMUM                                                                                    |                | MAXIMUM                 | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                         | SU    | 6.0                                                                                        |                | 9.0                     | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                                   |       |                                                                                            |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                            | UNITS          | MONTHLY AVERAGE MINIMUM | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Biochemical Oxygen Demand <sub>5</sub> – Percent Removal (Note 5, Page 12)                                                                                                                                                                                                                                                                                              |       |                                                                                            | %              | 65                      | once/month              | calculated   |
| Total Suspended Solids – Percent Removal (Note 5, Page 12)                                                                                                                                                                                                                                                                                                              |       |                                                                                            | %              | 65                      | once/month              | calculated   |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>JUNE 28, 2017</u> .                                                                                                                                                                                                                                                                   |       |                                                                                            |                |                         |                         |              |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 5 – Influent sampling is not required during periods of land application when the facility does not discharge effluent. Influent samples are to be collected at Internal Monitoring Point #IP1 prior to any treatment process in order to determine removal efficiency at the Neosho Crowder WWTP. Percent removal is calculated by the following formula:  $[(\text{Influent at \#IP1} - \text{Effluent at \#IP3}) / \text{Influent at \#IP1}] \times 100\% = \text{Percent Removal}$ . The Monthly Average Minimum Percent removal is to be reported as the average of all daily calculated removal efficiencies. Influent samples are to be collected as a 24-hour composite sample, composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

| <b><u>INTERNAL MONITORING</u></b><br><b><u>POINT #IP5:</u></b><br>Effluent Monitoring Location for Neosho<br>Shoal Creek WWTP prior to Effluents<br>Mixing                                                                                                                                                                                                              |       | <b>TABLE A-12.</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                |                         |                         |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------|-------------------------|-------------------------|--------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |       |                                                                                     |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS | FINAL EFFLUENT LIMITATIONS                                                          |                |                         | MONITORING REQUIREMENTS |              |
|                                                                                                                                                                                                                                                                                                                                                                         |       | DAILY MAXIMUM                                                                       | WEEKLY AVERAGE | MONTHLY AVERAGE         | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Flow                                                                                                                                                                                                                                                                                                                                                                    | MGD   | *                                                                                   |                | *                       | once/day                | 24 hr. total |
| Biochemical Oxygen Demand <sub>5</sub>                                                                                                                                                                                                                                                                                                                                  | mg/L  |                                                                                     | 45             | 30                      | once/week               | composite**  |
| Total Suspended Solids                                                                                                                                                                                                                                                                                                                                                  | mg/L  |                                                                                     | 45             | 30                      | once/week               | composite**  |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2017</u></b> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.                                                                                                                                                         |       |                                                                                     |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS | MINIMUM                                                                             |                | MAXIMUM                 | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| pH – Units ****                                                                                                                                                                                                                                                                                                                                                         | SU    | 6.0                                                                                 |                | 9.0                     | once/week               | grab         |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2017</u></b> .                                                                                                                                                                                                                                                     |       |                                                                                     |                |                         |                         |              |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                     | UNITS          | MONTHLY AVERAGE MINIMUM | MEASUREMENT FREQUENCY   | SAMPLE TYPE  |
| Biochemical Oxygen Demand <sub>5</sub> – Percent Removal (Note 6)                                                                                                                                                                                                                                                                                                       |       |                                                                                     | %              | 85                      | once/month              | calculated   |
| Total Suspended Solids – Percent Removal (Note 6)                                                                                                                                                                                                                                                                                                                       |       |                                                                                     | %              | 85                      | once/month              | calculated   |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>MONTHLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JUNE 28, 2017</u></b> .                                                                                                                                                                                                                                                     |       |                                                                                     |                |                         |                         |              |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

\*\*\*\* pH is measured in pH units and is not to be averaged.

Note 6 – Influent sampling is not required during periods of land application when the facility does not discharge effluent. Influent samples are to be collected at Internal Monitoring Point #IP4 prior to any treatment process in order to determine removal efficiency at the Neosho Shoal Creek WWTP. Percent removal is calculated by the following formula:  $[(\text{Influent at \#IP4} - \text{Effluent at \#IP5}) / \text{Influent at \#IP4}] \times 100\% = \text{Percent Removal}$ . The Monthly Average Minimum Percent removal is to be reported as the average of all daily calculated removal efficiencies. Influent samples are to be collected as a 24-hour composite sample, composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

| <u><b>OUTFALL #001:</b></u><br>Main Facility Outfall at Neosho Shoal Creek WWTP                                                                                                                                                                                                                                                                                         | <b>TABLE A-13.</b><br><b>WHOLE EFFLUENT TOXICITY</b><br><b>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b> |                            |                |                 |                         |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|-----------------|-------------------------|-------------|
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u><b>May 1, 2017</b></u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: |                                                                                                                       |                            |                |                 |                         |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                                                                   | UNITS                                                                                                                 | FINAL EFFLUENT LIMITATIONS |                |                 | MONITORING REQUIREMENTS |             |
|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       | DAILY MAXIMUM              | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY   | SAMPLE TYPE |
| Acute Whole Effluent Toxicity (Note 7)                                                                                                                                                                                                                                                                                                                                  | TU <sub>a</sub>                                                                                                       | *                          |                |                 | once/year               | composite** |
| MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2018</u> .                                                                                                                                                                                                                                                               |                                                                                                                       |                            |                |                 |                         |             |
| Chronic Whole Effluent Toxicity (Note 8)                                                                                                                                                                                                                                                                                                                                | TU <sub>c</sub>                                                                                                       | *                          |                |                 | once/permit cycle       | composite** |
| <u>WET TEST</u> REPORTS SHALL BE SUBMITTED <u>ONCE PER PERMIT CYCLE</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2022</u> .                                                                                                                                                                                                                                             |                                                                                                                       |                            |                |                 |                         |             |

\* Monitoring requirement only.

\*\* A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

Note 7 – The Acute WET test shall be conducted once per year during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 5<sup>th</sup> year of the permit cycle. See Special Condition #24 for additional requirements.Note 8 –The Chronic WET test shall be conducted during the 4<sup>th</sup> year of the permit cycle. See Special Condition #25 for additional requirements.

| <b><u>PERMITTED FEATURE #SM1:</u></b><br>Instream (Upstream) Monitoring Location<br>at Neosho Shoal Creek WWTP                       | <b>TABLE B-1.</b><br><b>INSTREAM MONITORING REQUIREMENTS</b> |                         |  |                    |                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------|--|--------------------|--------------------------|----------------|
| The monitoring requirements shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. |                                                              |                         |  |                    |                          |                |
| PARAMETER(S)                                                                                                                         | UNITS                                                        | MONITORING REQUIREMENTS |  |                    |                          |                |
|                                                                                                                                      |                                                              | DAILY<br>MAXIMUM        |  | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| Total Nitrogen                                                                                                                       | mg/L                                                         | *                       |  | *                  | once/quarter***          | grab           |
| Total Phosphorus                                                                                                                     | mg/L                                                         | *                       |  | *                  | once/quarter***          | grab           |
| MONITORING REPORTS SHALL BE SUBMITTED <b><u>QUARTERLY</u></b> ; THE FIRST REPORT IS DUE <b><u>JULY 28, 2017</u></b> .                |                                                              |                         |  |                    |                          |                |

\* Monitoring requirement only.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                                                                          |                          |
|-------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Instream (Upstream) Monitoring Location at Neosho Shoal Creek WWTP – Total Nitrogen and Total Phosphorus | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter                                                     | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter                                                     | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter                                                     | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter                                                     | January 28 <sup>th</sup> |

|                                                                                                                                      |                                                              |                         |  |                    |                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------|--|--------------------|--------------------------|----------------|
| <b><u>PERMITTED FEATURE #SM2:</u></b><br>Instream (Downstream) Monitoring<br>Location at Neosho Shoal Creek WWTP                     | <b>TABLE B-2.</b><br><b>INSTREAM MONITORING REQUIREMENTS</b> |                         |  |                    |                          |                |
| The monitoring requirements shall become effective on <b><u>May 1, 2017</u></b> and remain in effect until expiration of the permit. |                                                              |                         |  |                    |                          |                |
| PARAMETER(S)                                                                                                                         | UNITS                                                        | MONITORING REQUIREMENTS |  |                    |                          |                |
|                                                                                                                                      |                                                              | DAILY<br>MAXIMUM        |  | MONTHLY<br>AVERAGE | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE |
| Total Hardness                                                                                                                       | mg/L                                                         | *                       |  | *                  | once/quarter***          | grab           |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2017</u> .                              |                                                              |                         |  |                    |                          |                |

\* Monitoring requirement only.

\*\*\* See table below for quarterly sampling requirements.

| Minimum Sampling Requirements |                             |                                                                                          |                          |
|-------------------------------|-----------------------------|------------------------------------------------------------------------------------------|--------------------------|
| Quarter                       | Months                      | Instream (Downstream) Monitoring Location at Neosho<br>Shoal Creek WWTP – Total Hardness | Report is Due            |
| First                         | January, February, March    | Sample at least once during any month of the quarter                                     | April 28 <sup>th</sup>   |
| Second                        | April, May, June            | Sample at least once during any month of the quarter                                     | July 28 <sup>th</sup>    |
| Third                         | July, August, September     | Sample at least once during any month of the quarter                                     | October 28 <sup>th</sup> |
| Fourth                        | October, November, December | Sample at least once during any month of the quarter                                     | January 28 <sup>th</sup> |

### **C. STANDARD CONDITIONS**

In addition to specified conditions stated herein, this permit is subject to the attached **Parts I, II, & III** standard conditions dated **August 1, 2014, May 1, 2013, and March 1, 2015**, and hereby incorporated as though fully set forth herein.

### **D. SPECIAL CONDITIONS**

1. This permit establishes final ammonia limitations based on Missouri's current Water Quality Standard. On August 22, 2013, the U.S. Environmental Protection Agency (EPA) published a notice in the Federal Register announcing of the final national recommended ambient water quality criteria for protection of aquatic life from the effects of ammonia in freshwater. The EPA's guidance, Final Aquatic Life Ambient Water Quality Criteria for Ammonia – Fresh Water 2013, is not a rule, nor automatically part of a state's water quality standards. States must adopt new ammonia criteria consistent with EPA's published ammonia criteria into their water quality standards that protect the designated uses of the water bodies. The Department of Natural Resources has initiated stakeholder discussions on how to best incorporate these new criteria into the State's rules. A date for when this rule change will occur has not been determined. Also, refer to Section VI of this permit's factsheet for further information including estimated future effluent limits for this facility. It is recommended the permittee view the Department's 2013 EPA criteria Factsheet located at <http://dnr.mo.gov/pubs/pub2481.htm>.
2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test including acute and chronic Whole Effluent Toxicity (WET) tests, or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.
  - (d) Incorporate the requirement to develop a pretreatment program pursuant to 40 CFR 403.8(a) when the Director of the Water Protection Program determines that a pretreatment program is necessary due to any new introduction of pollutants into the Publically Owned Treatment Works or any substantial change in the volume or character of pollutants being introduced.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

**D. SPECIAL CONDITIONS (continued)**

3. All outfalls must be clearly marked in the field. This does not include instream monitoring locations.
4. Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability.
5. Report as no-discharge when a discharge does not occur during the report period. For instream samples, report as “no flow” if no stream flow occurs during the report period.
6. Water Quality Standards
  - (a) To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
  - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
    - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
    - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
    - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
    - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
    - (5) There shall be no significant human health hazard from incidental contact with the water;
    - (6) There shall be no acute toxicity to livestock or wildlife watering;
    - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
    - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
7. Changes in existing pollutants or the addition of new pollutants to the treatment facility

The permittee must provide adequate notice to the Director of the following:

  - (a) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and
  - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
  - (c) For purposes of this paragraph, adequate notice shall include information on:
    - (1) the quality and quantity of effluent introduced into the POTW, and
    - (2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
8. Reporting of Non-Detects:
  - (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
  - (b) The permittee shall not report a sample result as “Non-Detect” without also reporting the detection limit of the test. Reporting as “Non Detect” without also including the detection limit will be considered failure to report, which is a violation of this permit.
  - (c) The permittee shall provide the “Non-Detect” sample result using the less than sign and the minimum detection limit (e.g. <10).
  - (d) Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.
  - (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
  - (f) When calculating monthly averages, one-half of the method detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the “<MDL” shall be reported as indicated in item (c).
9. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).



**D. SPECIAL CONDITIONS (continued)**

10. The permittee shall comply with any applicable requirements listed in 10 CSR 20-9, unless the facility has received written notification that the Department has approved a modification to the requirements. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the Department for review and, if deemed necessary, approval.
11. The permittee shall develop and implement a program for maintenance and repair of the collection system. The recommended guidance is the US EPA's Guide For Evaluating Capacity, Management, Operation, And Maintenance (CMOM) Programs At Sanitary Sewer Collection Systems (Document number EPA 305-B-05-002) or the Departments' CMOM Model located at <http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc>. For additional information regarding the Departments' CMOM Model, see the CMOM Plan Model Guidance document at <http://dnr.mo.gov/pubs/pub2574.htm>.  
  
The permittee shall also submit a report to the Southwest Regional Office annually, by January 28<sup>th</sup>, for the previous calendar year. The report shall contain the following information:
  - (a) A summary of the efforts to locate and eliminate sources of excessive infiltration and inflow into the collection system serving the facility for the previous year.
  - (b) A summary of the general maintenance and repairs to the collection system serving the facility for the previous year.
  - (c) A summary of any planned maintenance and repairs to the collection system serving the facility for the upcoming calendar year. This list shall include locations (GPS, 911 address, manhole number, etc.) and actions to be taken.
12. Bypasses are not authorized at this facility unless they meet the criteria in 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3), and with Standard Condition Part I, Section B, subsection 2.b. Bypasses are to be reported to the Southwest Regional Office or by using the online Sanitary Sewer Overflow/Facility Bypass Application, located at: <http://dnr.mo.gov/modnrcag/> during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. Blending, which is the practice of combining a partially-treated wastewater process stream with a fully-treated wastewater process stream prior to discharge, is not considered a form of bypass. If the permittee wishes to utilize blending, the permittee shall file an application to modify this permit to facilitate the inclusion of appropriate monitoring conditions.
13. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
14. At least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain closed except when temporarily opened by; the permittee to access the facility, perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department. The gate shall be closed and locked when the facility is not staffed.
15. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
16. An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.
17. An all-weather access road shall be provided to the treatment facility.
18. The discharge from the wastewater treatment facility shall be conveyed to the receiving stream via a closed pipe or a paved or rip-rapped open channel. Sheet or meandering drainage is not acceptable. The outfall sewer shall be protected against the effects of floodwater, ice or other hazards as to reasonably insure its structural stability and freedom from stoppage. The outfall shall be maintained so that a sample of the effluent can be obtained at a point after the final treatment process and before the discharge mixes with the receiving waters.
19. Land application of biosolids shall be conducted in accordance with Standard Conditions III and a Department approved biosolids management plan. Land application of biosolids during frozen, snow covered, or saturated soil conditions in accordance with the additional requirements specified in WQ426 shall occur only with prior approval from the Department.

**D. SPECIAL CONDITIONS (continued)**

20. Receiving Water Monitoring Conditions
- (a) Downstream receiving water samples should be taken at the location(s) specified on Page 2 of this permit. In the event that a safe, accessible location is not present at the location(s) listed, a suitable location can be negotiated with the Department. Samples should be taken at least four feet from the bank or from the middle of the stream (whichever is less) and 6-inches below the surface. The upstream receiving water sample should be collected at a point upstream from any influence of the effluent, where the water is visibly flowing down stream.
  - (b) When conducting in-stream monitoring, the permittee shall record observations that include: the time of day, weather conditions, unusual stream characteristics (e.g., septic conditions, algae growth, etc.), the stream segment (e.g., riffle, pool or run) from where the sample was collected. These observations shall be submitted with the sample results.
  - (c) Samples shall not be collected from areas with especially turbulent flow, still water or from the stream bank, unless these conditions are representative of the stream reach or no other areas are available for sample collection. Sampling should not be made when significant precipitation has occurred recently. The sampling event should be terminated and rescheduled if any of the following conditions occur:
    - If turbidity in the stream increases notably; or
    - If rainfall over the past two weeks exceeds 2.5 inches or exceeds 1 inch in the last 24 hours
  - (d) Always use the correct sampling technique and handling procedure specified for the parameter of interest. Please refer to the latest edition of Standard Methods for the Examination of Water and Wastewater for further discussion of proper sampling techniques. All analyses must be conducted in accordance with an approved EPA method. Meters shall be calibrated immediately (within 1 hour) prior to the sampling event.
  - (e) Please contact the Department if you need additional instructions or assistance.
21. The permittee shall implement and enforce its approved pretreatment program in accordance with the requirements of 10 CSR 20-6.100. The approved pretreatment program is hereby incorporated by reference.

The permittee shall submit to the Department on or before March 31<sup>st</sup> of each year a report briefly describing its pretreatment activities during the previous calendar year. At a minimum, the report shall include the following:

- (a) An updated list of the Permittee's Industrial Users, including their names and addresses, or a list of deletions and additions keyed to a previously submitted list. The Permittee shall provide a brief explanation of each deletion. This list shall identify which Industrial Users are subject to categorical pretreatment Standards and specify which Standards are applicable to each Industrial User. The list shall indicate which Industrial Users are subject to local standards that are more stringent than the categorical Pretreatment Standards. The Permittee shall also list the Industrial Users that are subject only to local Requirements;
- (b) A summary of the status of Industrial User compliance over the reporting period;
- (c) A summary of compliance and enforcement activities (including inspections) conducted by the Permittee during the reporting period; and
- (d) Any other relevant information requested by the Department.

Pursuant to 40 CFR 122.44(j)(2)(ii), the permittee shall submit to the Department a written technical evaluation of the need to revise local limits under 40 CFR 403.5(c)(1) along with the application for renewal of this permit.

22. Stormwater Pollution Prevention Plan (SWPPP): A SWPPP must be developed and implemented within 180 days of the effective date of the permit. Through implementation of the SWPPP, the permittee shall minimize the release of pollutants in stormwater from the facility to the waters of the state. The SWPPP shall be developed in consultation with the concepts and methods described in the following document: Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.
- (a) The SWPPP must identify any stormwater outfall from the facility and Best Management Practices (BMPs) used to prevent or reduce the discharge of contaminants in stormwater. The stormwater outfalls shall either be marked in the field or clearly marked on a map and maintained with the SWPPP.
  - (b) The SWPPP must include a schedule and procedures for a once per month routine site inspection.
    - (1) The monthly routine inspection shall be documented in a brief written report, which shall include:
      - i. The person(s) conducting the inspection.
      - ii. The inspection date and time.
      - iii. Weather information for the day of the inspection.
      - iv. Precipitation information for the entire period since the last inspection.
      - v. Description of the discharges observed, including visual quality of the discharges (sheen, turbid, etc.).
      - vi. Condition of BMPs

**D. SPECIAL CONDITIONS (continued)**

- vii. If BMPs were replaced or repaired.
  - viii. Observations and evaluations of BMP effectiveness.
  - ii. Any deficiency observed during the routine inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
  - iii. The routine inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
  - iv. The routine inspection reports shall be made available to Department personnel upon request.
  - (c) The SWPPP must include a schedule and procedures for a once per year comprehensive site inspection.
    - (1) The annual comprehensive inspection shall be documented in a written report, which shall include:
      - i. The person(s) conducting the inspection.
      - ii. The inspection date and time.
      - iii. Findings from the areas of your facility that were examined;
      - iv. All observations relating to the implementation of your control measures including:
        - 1. Previously unidentified discharges from the site,
        - 2. Previously unidentified pollutants in existing discharges,
        - 3. Evidence of, or the potential for, pollutants entering the drainage system;
        - 4. Evidence of pollutants discharging to receiving waters at all facility outfall(s), and the condition of and around the outfall, and
        - 5. Additional control measures needed to address any conditions requiring corrective action identified during the inspection.
      - v. Any required revisions to the SWPPP resulting from the inspection;
      - vi. Any incidence of noncompliance observed or a certification stating that the facility is in compliance with Special Condition D.22.
    - (2) Any deficiency observed during the comprehensive inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
    - (3) The comprehensive inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
    - (4) The comprehensive inspection reports shall be made available to Department personnel upon request.
  - (d) The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested.
  - (e) The SWPPP must be reviewed and updated at a minimum once per permit cycle, as site conditions or control measures change.
23. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP.
- (b) Permittee shall adhere to the following minimum Best Management Practices (BMPs):
    - (1) Minimize the exposure of industrial material storage areas, loading and unloading areas, dumpsters and other disposal areas, maintenance activities, and fueling operations to rain, snow, snowmelt, and runoff, by locating industrial materials and activities inside or protecting them with storm resistant coverings, if warranted and practicable.
    - (2) Provide good housekeeping practices on the site to prevent potential pollution sources from coming into contact with stormwater and provide collection facilities and arrange for proper disposal of waste products, including sludge.
    - (3) Implement a maintenance program to ensure that the structural control measures and industrial equipment is kept in good operating condition and to prevent or minimize leaks and other releases of pollutants.
    - (4) Prevent or minimize the spillage or leaks of fluids, oil, grease, fuel, etc. from equipment and vehicle maintenance, equipment and vehicle cleaning, or activities.
    - (5) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of straw bales, silt fences, or sediment basins, if needed.
    - (6) Provide stormwater runoff controls to divert, infiltrate, reuse, contain, or otherwise minimize pollutants in the stormwater discharge.
    - (7) Enclose or cover storage piles of salt or piles containing salt, used for deicing or other commercial or industrial purposes.
    - (8) Provide training to all employees who; work in areas where industrial materials or activities are exposed to stormwater, are responsible for stormwater inspections, are members of the Pollution Prevention Team. Training must cover the specific control measures and monitoring, inspection, planning, reporting and documentation requirements of this permit. Training is recommended annually for any applicable staff and whenever a new employee is hired who meets the description above.
    - (9) Eliminate and prevent unauthorized non-stormwater discharges at the facility.
    - (10) Minimize generation of dust and off-site tracking of raw, final, or waste materials by implementing appropriate control measures.

**D. SPECIAL CONDITIONS (continued)**

24. Acute Whole Effluent Toxicity (WET) tests shall be conducted as follows:
- (a) Freshwater Species and Test Methods: Species and short-term test methods for estimating the acute toxicity of NPDES effluents are found in the most recent edition of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA/821/R-02/012; Table IA, 40 CFR Part 136). The permittee shall concurrently conduct 48-hour, static, non-renewal toxicity tests with the following species:
    - o The fathead minnow, *Pimephales promelas* (Acute Toxicity EPA Test Method 2000.0).
    - o The daphnid, *Ceriodaphnia dubia* (Acute Toxicity EPA Test Method 2002.0).
  - (b) Chemical and physical analysis of the upstream control sample and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping. Where upstream receiving water is not available or known to be toxic, other approved control water may be used.
  - (c) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
  - (d) The Allowable Effluent Concentration (AEC) for this facility is 100% with the dilution series being: 100%, 50%, 25%, 12.5%, and 6.25%.
  - (e) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
  - (f) The facility must submit a full laboratory report for all toxicity testing. The report must include a quantification of acute toxic units ( $TU_a = 100/LC_{50}$ ) reported according to the test methods manual chapter on report preparation and test review. The Lethal Concentration 50 Percent ( $LC_{50}$ ) is the effluent concentration that would cause death in 50 percent of the test organisms at a specific time.
25. Chronic Whole Effluent Toxicity (WET) tests shall be conducted as follows:
- (a) Freshwater Species and Test Methods: Species and short-term test methods for estimating the chronic toxicity of NPDES effluents are found in the most recent edition of *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013; Table IA, 40 CFR Part 136). The permittee shall concurrently conduct 7-day, static, renewal toxicity tests with the following species:
    - o The fathead minnow, *Pimephales promelas* (Survival and Growth Test Method 1000.0).
    - o The daphnid, *Ceriodaphnia dubia* (Survival and Reproduction Test Method 1002.0).
  - (b) Chemical and physical analysis of the upstream control sample and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping. Where upstream receiving water is not available or known to be toxic, other approved control water may be used.
  - (c) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
  - (d) The Allowable Effluent Concentration (AEC) is 100%, the dilution series is: 100%, 50%, 25%, 12.5%, and 6.25%.
  - (e) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
  - (f) The facility must submit a full laboratory report for all toxicity testing. The report must include a quantification of chronic toxic units ( $TU_c = 100/IC_{25}$ ) reported according to the *Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* chapter on report preparation and test review. The 25 percent Inhibition Effect Concentration ( $IC_{25}$ ) is the toxic or effluent concentration that would cause 25 percent reduction in mean young per female or in growth for the test populations.
26. **Electronic Discharge Monitoring Report (eDMR) Submission System.**
- The permittee shall submit an eDMR Permit Holder and Certifier Registration form **within 90 days of the effective date** of this permit. Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure a timely, complete, accurate, and nationally-consistent set of data. Visit <http://dnr.mo.gov/pubs/pub2474.pdf> to access the Facility Participation Package which contains the eDMR Permit Holder and Certifier Registration form.

Once the permittee is activated in the eDMR system:

- (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. In regards to Standard Conditions Part I, Section B, #7, the eDMR system is currently the only Department approved reporting method for this permit.
- (b) Programmatic Reporting Requirements. The following reports (if required by this permit) must be electronically submitted as an attachment to the eDMR system until such a time when the current or a new system is available to allow direct input of the data:
  - (1) Collection System Maintenance Annual Reports;
  - (2) Schedule of Compliance Progress Reports;

#### **D. SPECIAL CONDITIONS (continued)**

- (3) Sludge/Biosolids Annual Reports;
    - i. In addition to the annual Sludge/Biosolids report submitted to the department, the permittee must submit Sludge/Biosolids Annual Reports electronically using EPA's NPDES Electronic Reporting Tool ("NeT")
  - (4) Pretreatment Program Reports;
  - (5) Any additional report required by the permit excluding bypass reporting.
- After such a system has been made available by the department, required data shall be directly input into the system by the next report due date.
- (c) Other actions. The following shall be submitted electronically after such a system has been made available by the department:
    - (1) Notices of Termination (NOTs);
    - (2) Bypass reporting. See Special Condition #12 for 24-hr. bypass reporting requirements.
  - (d) Electronic Submissions. To access the eDMR system, use the following link in your web browser: <https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx>.
  - (e) Waivers from Electronic Reporting. The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: <http://dnr.mo.gov/forms/780-2692-f.pdf>. The department will either approve or deny this electronic reporting waiver request within 120 calendar days. Only permittees with an approved waiver request may submit monitoring data and reports on paper to the Department for the period that the approved electronic reporting waiver is effective.

#### **E. SCHEDULE OF COMPLIANCE**

##### **Outfall #001:**

Ammonia. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than one (1) year of the effective date of this permit. The existing oxidation ditch facility employs technology capable of meeting the proposed final effluent limitations for ammonia, but discharge monitoring reports indicate the facility has not always been in compliance with the proposed limitations. Therefore this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

Phenol, Total Recoverable Cadmium, Total Recoverable Iron, & Total Recoverable Selenium. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than one (1) year of the effective date of this permit. As a result of a Reasonable Potential Analysis (RPA), it has been determined that the facility has a reasonable potential to exceed water quality standards for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

##### **Outfall #002:**

Total Phosphorus. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than five (5) years of the effective date of this permit.

1. The permittee shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits every 12 months from effective date.
2. Within 5 years of the effective date of this permit, the permittee shall attain compliance with the final effluent limits.

Please submit progress reports to the Missouri Department of Natural Resources via the Electronic Discharge Monitoring Report (eDMR) Submission System.

##### **Outfall #002 & Internal Monitoring Point #IP2:**

Total Recoverable Chromium (III), Dissolved Chromium (VI), Total Recoverable Copper, Total Recoverable Lead, Total Recoverable Mercury, Total Recoverable Nickel, & Total Recoverable Zinc. The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than one (1) year of the effective date of this permit. As a result of technical mistakes noticed by the permit writer, this permit includes new and more stringent effluent limitations than those of the previous permit for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations and the limited amount of effluent data related to the above listed parameters, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

**MISSOURI DEPARTMENT OF NATURAL RESOURCES  
FACT SHEET  
FOR THE PURPOSE OF RENEWAL  
OF  
MO-0104906  
NEOSHO WASTEWATER TREATMENT PLANT**

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of stormwater from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Major.

**Part I – Facility Information**

Facility Type: POTW - SIC #4952

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

☒ - No.

Application Date: 07/18/16

Expiration Date: 12/11/16

**PERMITTED FEATURE(S) TABLE:**

| PERMITTED FEATURE                 | DESIGN FLOW (CFS)                                                                                                                                                                                | TREATMENT LEVEL         | EFFLUENT TYPE |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|
| Outfall #001                      | 4.65                                                                                                                                                                                             | Secondary               | Domestic      |
| Outfall #002                      | 4.65                                                                                                                                                                                             | Equivalent to Secondary | Domestic      |
| Outfall #003                      | <i>Discharge point to the Golf Course Irrigation Storage Ponds. No effluent limitations as effluent quality is monitored at Internal Monitoring Point #IP2.</i>                                  |                         |               |
| Internal Monitoring Point #IP1    | <i>Internal Monitoring Point – Location influent samples from Neosho Crowder WWTP are collected.</i>                                                                                             |                         |               |
| Internal Monitoring Point #IP2    | <i>Internal Monitoring Point – Location following full treatment from Neosho Crowder WWTP where monitoring of effluent sent to the Golf Course Irrigation Storage Ponds occurs.</i>              |                         |               |
| Internal Monitoring Point #IP3    | <i>Internal Monitoring Point – Location following full treatment from Neosho Crowder WWTP where monitoring of effluent sent to the Neosho Shoal Creek WWTP occurs prior to effluents mixing.</i> |                         |               |
| Internal Monitoring Point #IP4    | <i>Internal Monitoring Point – Location influent samples from Neosho Shoal Creek WWTP are collected.</i>                                                                                         |                         |               |
| Internal Monitoring Point #IP5    | <i>Internal Monitoring Point – Location following full treatment from Neosho Shoal Creek WWTP where monitoring of effluent occurs prior to effluents mixing.</i>                                 |                         |               |
| Instream Monitoring Location #SM1 | <i>Instream Monitoring Location – Upstream</i>                                                                                                                                                   |                         |               |
| Instream Monitoring Location #SM2 | <i>Instream Monitoring Location – Downstream</i>                                                                                                                                                 |                         |               |



### **Facility Description:**

This permit includes two wastewater treatment facilities which serve the City of Neosho. These facilities were previously permitted separately – Neosho Crowder WWTP (MO-0039926) and Neosho Shoal Creek WWTP (MO-0104906). During normal operations at the Neosho Crowder WWTP, effluent is sent to the Neosho Shoal Creek WWTP, where effluent from the two plants mix together prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Therefore, it has been determined by the permit writer that combining the two permits into one permit is appropriate.

#### **Outfall #001 – Main Facility Outfall at Neosho Shoal Creek WWTP**

Flow equalization basin / bar screen / 2 oxidation ditches / 2 final clarifiers / ultraviolet disinfection / aerobic sludge digester / 2 aerated sludge holding basins / sludge is land applied.

Design population equivalent is 30,000.

Design flow is 3.0 MGD.

Actual flow is 1.7 MGD.

Design sludge production is 630 dry tons/year.

#### **Outfall #002 – Discharge at Neosho Crowder WWTP (previously permitted as Outfall #001 in MO-0039926)**

Discharges at Outfall #002 occur only during high flow events. Typically flow from the Neosho Crowder WWTP is sent to the Neosho Shoal Creek WWTP.

Flow equalization basin / bar screen / 2 pre-aeration basins / 2 primary clarifiers / 3 trickling filters / recirculation basin / 3 secondary clarifiers / chlorine disinfection / chlorine contact basin / dechlorination / 2 primary aerobic sludge digesters / sludge drying bed / sludge is land applied.

Design population equivalent is 29,000.

Design flow is 3.0 MGD.

Actual flow is 0.92 MGD.

Design sludge production is 812 dry tons/year.

#### **Outfall #003 - Discharge Point to the Golf Course Irrigation Storage Ponds**

Outfall #003 has been identified in the permit in order to document the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds.

#### **Internal Monitoring Points #IP1 - #IP5**

It has been determined by the permit writer that the previous permit for Neosho Crowder WWTP (MO-0039926) be combined with the permit for Neosho Shoal Creek WWTP. In doing this, Internal Monitoring Points were created so that compliance with various requirements could be demonstrated.

- Internal Monitoring Point #IP1: location where Neosho Crowder WWTP influent monitoring occurs for the purposes of determining removal efficiency for the Neosho Crowder WWTP.
- Internal Monitoring Point #IP2: location where Neosho Crowder WWTP effluent monitoring occurs when the facility sends effluent to the golf course irrigation storage ponds.
- Internal Monitoring Point #IP3: location where Neosho Crowder WWTP effluent monitoring occurs when the facility sends effluent to the Neosho Shoal Creek WWTP. Internal Monitoring Point #IP3 is located at the Neosho Shoal Creek WWTP prior to the mixing of effluents from both plants before the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP.
- Internal Monitoring Point #IP4: location where Neosho Shoal Creek WWTP influent monitoring occurs for the purposes of determining removal efficiency for the Neosho Shoal Creek WWTP.
- Internal Monitoring Point #IP5: location where Neosho Shoal Creek WWTP effluent monitoring occurs prior to the mixing of effluents from both plants.

#### **Instream Monitoring Locations #SM1 & #SM2**

- #SM1: monitoring location in Shoal Creek (P) (3222) upstream of Outfall #001 at the Neosho Shoal Creek WWTP.
- #SM2: monitoring location in Shoal Creek (P) (3222) approximately ¼ mile downstream of Outfall #001 at the Neosho Shoal Creek WWTP to ensure samples are taken outside of the mixing zone.

#### **Previous Outfalls / Permitted Features from Neosho Crowder WWTP (previously permitted under MO-0039926)**

The previous permit for the Neosho Crowder WWTP included permitted features which have not been included in this permit. The previous permit required monitoring of fully treated effluent that is pumped from Neosho Crowder WWTP to the golf course irrigation storage ponds (previously identified as Outfall #002 in MO-0039926) for the purposes of land application of water from the ponds. The permit writer has determined that the land application of water from the golf course irrigation storage ponds does not need to be monitored in this permit, as the effluent sent to the golf course irrigation storage ponds is fully treated (including disinfection). Additionally, any sample that would be collected from the storage ponds would not be representative of the Neosho Crowder WWTP effluent quality as the sample would not be exclusively made up of Neosho Crowder WWTP effluent.

**Facility Description (continued):**

**Previous Outfalls / Permitted Features from Neosho Crowder WWTP (previously permitted under MO-0039926) (continued)**

The previous permit for the Neosho Crowder WWTP also required monitoring of water from the golf course irrigation storage ponds in the event of an overflow from the storage ponds (previously identified as Outfall #003 in MO-0039926). The permit writer has determined that water discharged during an overflow from the golf course irrigation storage ponds does not need to be monitored in this permit, as an overflow these ponds is not exclusively water sent to the storage ponds by the Neosho Crowder WWTP. Therefore, any overflow samples collected from the storage ponds would not be representative of the Neosho Crowder WWTP effluent quality as the sample would not be exclusively made up of Neosho Crowder WWTP effluent. Additionally, the permit writer has included Internal Monitoring Point #IP2 so that monitoring of the Neosho Crowder WWTP effluent can occur to demonstrate compliance with water quality standards before effluent enters the golf course irrigation storage ponds. This will ensure that if the ponds overflow, data relating to the Neosho Crowder WWTP effluent will be available. This permit also identifies the location where Neosho Crowder WWTP effluent enters the golf course irrigation storage ponds as Outfall #003.

The previous permit for the Neosho Crowder WWTP also required monitoring of fully treated effluent in the chlorine contact basin for the purposes of removal efficiency (previously identified as Outfall #004 in MO-0039926). The permit writer has included effluent monitoring at Outfall #002, Internal Monitoring Point #IP2, and Internal Monitoring Point #IP3 in order to monitor the Neosho Crowder WWTP effluent during different operational circumstances. To determine removal efficiency for the Neosho Crowder WWTP, the facility should collect a sample of influent and effluent samples at the same time, with influent samples being collected at Internal Monitoring Point #IP1 and effluent samples being collected at one of the locations specified in this permit depending on where effluent is being sent at the time of sample collection.

**Facility Performance History:**

The Neosho Shoal Creek WWTP was last inspected on April 18-19, 2012. The inspection showed the following unsatisfactory features; review of Discharge Monitoring Reports (DMR) showed the facility had not always met effluent limitations of the permit, laboratory procedures did not conform to Standards Conditions Part I, review of the 2011 Form S for biosolids disposal showed the form had not been sufficiently completed, failure to record the volume of screenings, operation and maintenance failures, and showed operational tests were not being performed at the proper frequency. The inspection also mentioned maintaining all information on samples collected or analyzed.

The Neosho Crowder WWTP was last inspected on March 26, 2008. The inspection showed the following unsatisfactory features; no all Sanitary Sewer Overflows (SSOs) have been reported, failure to maintain all information for sampling and analysis conducted, failure to have a quality assurance program for pH, it was unknown at the time of the inspection if weights were ASTM Class I certified, failure to have a certified thermometer, laboratory chemicals were outdated, one clarifier was out of service at the time of the inspection, and the flow meter is not certified annually by a factory authorized representative.

**Permit Comments:**

Special conditions were updated to include the addition of reporting of Non-detects, addition of instream monitoring requirements, addition of Stormwater Pollution Prevention Plan, and addition of requirements to submit to the department via the Electronic Discharge Monitoring Report (eDMR) Submission System. Other special conditions which have changed from the previous permit include inflow and infiltration reporting requirements, bypass reporting requirements, and pretreatment requirements.

The design flow of each facility is 3.0 MGD individually, as reflected in the permit. However, the ultraviolet disinfection unit located at the Neosho Shoal Creek WWTP is designed to treat 6.0 MGD in order to disinfect effluent from both WWTPs prior to the discharge from Outfall #001. Therefore, design flows of 6.0 MGD for Outfall #001 and 3.0 MGD for Outfall #002 were used in effluent limitation derivations.

**Outfall #001 Comments:**

Changes at this location include the addition of monitoring requirements for total nitrogen, total phosphorus, and requirements to conduct a Chronic Whole Effluent Toxicity (WET). This permit also includes the addition of a schedule of compliance to meet final effluent limitations at Outfall #001 for the following parameters; total ammonia nitrogen, phenol, total recoverable cadmium, total recoverable iron, and total recoverable selenium. Other changes in effluent limitations include pH, total recoverable chromium (III), and dissolved chromium (VI). Please see Part VII of the Fact Sheet for further information regarding the addition and removal of effluent parameters. Sampling and reporting frequency was changed from once/month to once/quarter for total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), and total recoverable selenium and from once/week to twice/month for ammonia. The reduction in sampling for all of the above listed parameters is due to the consistency of the data submitted for each parameter. This determination will be reevaluated during the next renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

**Outfall #002 Comments (previously identified as Outfall #001 in MO-0039926 – which has been combined with this permit):**

During normal conditions, Outfall #002 typically has no discharge. However, discharges may occur from Outfall #002 during high flow events when the effluent pumps cannot send all the Neosho Crowder WWTP effluent to the Neosho Shoal Creek WWTP. Changes at this location include the addition of monitoring requirements for total nitrogen, total recoverable iron, and total recoverable selenium and the removal of requirements to conduct Acute Whole Effluent Toxicity (WET). Other changes in effluent limitations include ammonia, *E. coli*, nitrates, pH, 1,2-dichloroethane, 1,1,2-trichloroethane, cyanide, phenol, sulfates, and total dissolved boron. See Part VII of the Fact Sheet for further information regarding the addition and removal of effluent parameters. Sampling and reporting frequency was changed from once/week to twice/month for ammonia and nitrates, from once/week to once/quarter for total hardness, oil & grease, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, cyanide amenable to chlorination, phenol, sulfates, total dissolved boron, total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc. These changes in sampling and reporting frequency are due to the infrequency of the discharge at these locations along with the determination made by the permit writer that the effluent concentrations for the above listed parameters consistency of the discharges. This determination will be reevaluated upon renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

This permit also includes the addition of a schedule of compliance to meet final effluent limitations at Outfall #002 for total phosphorus as a result of a TMDL as demonstrated in Tables A-5 and A-6 of the permit.

This facility adds chemicals to dechlorinate the effluent prior to discharge at Outfall #002. Dechlorination chemicals have the potential to reduce dissolved oxygen concentrations in the discharge, resulting in an anoxic discharge, unless carefully controlled. However, Outfall #002 rarely discharges and when a discharge does occur, it is due to high flow events caused by Inflow and Infiltration (I&I). Due to the receiving stream condition and the effluent condition at the time of discharges from Outfall #002, it has been determined by the permit writer that there is no reasonable potential to violate water quality standards for dissolved oxygen and therefore no monitoring requirements have been included in this permit.

**Internal Monitoring Point #IP2 Comments:**

The permit writer has created Internal Monitoring Point #IP2 in order to monitoring effluent that is sent to the golf course irrigation storage ponds, as the last storage pond has the ability to overflow. As a result, the permit writer has determined that these interconnected ponds act as a receiving stream as opposed to a permanent storage structure. In the previous permit, monitoring of the storage pond overflow was required, in turn, creating a point of compliance following the combination of the Neosho Crowder WWTP effluent with other water stored in the ponds. This permit, however, creates a point of compliance which is located prior to this mixing of effluent and receiving water in order to collect samples which are representative of the Neosho Crowder WWTP effluent. This location is identified as Internal Monitoring Point #IP2, located in the chlorine contact basin where effluent has been fully treated, including disinfection, at the Neosho Crowder WWTP. This location was established due to the fact that there is no opportunity to sample effluent once routed to the golf course irrigation ponds.

Internal Monitoring Point #IP2 includes quarterly monitoring only requirements for total phosphorus as demonstrated in Table A-7 of the permit.

**Combined Outfall #002 and Internal Monitoring Point #IP2 Comments:**

Due to the fact that this permit includes identical requirement for Outfall #002 and Internal Monitoring Point #IP2 for certain parameters, the permit writer has included both of these permitted features in Tables A-8, A-9, and A-10. Although the two permitted features are included in Tables A-8, A-9, and A-10 together, the requirements identified in these tables apply to the two permitted features separately. This means that if a discharge occurs from both Outfall #002 and Internal Monitoring Point #IP2 during a sampling period, the facility will be required to sample and report effluent results from both permitted feature locations separately. Sample results are not to be averaged between Outfall #002 and Internal Monitoring Point #IP2.

This permit includes the addition of a schedule of compliance to meet final effluent limitations at Outfall #002 and Internal Monitoring Point #IP2 for total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc.

It has been determined by the permit writer that expanded effluent testing requirements of the renewal application are not required for Outfall #002 or Internal Monitoring Point #IP2. Expanded effluent testing allows the permit writer to make determinations regarding potential effluent limitation or monitoring requirements, which will not be a result of this sampling at Outfall #002 or Internal Monitoring Point #IP2. Discharges from Outfall #002 historically are rare in frequency and occur during high flow events due to Inflow and Infiltration (I&I) into the collection system. As a result, samples taken from Outfall #002 would not be representative of the seasonal variation in the discharge since they will occur during the same stream and effluent conditions. Expanded effluent testing is required by the application for renewal at Outfall #001, which will include effluent from both wastewater plants and will allow for the permittee to collect samples representative of seasonal variation.

**EFFLUENT TABLE REQUIREMENTS BY PERMITTED FEATURE:**

| PERMITTED FEATURE                             | ASSOCIATED TABLE(S) IN PERMIT | COMMENTS                                                                                        |
|-----------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|
| Outfall #001                                  | Table A-1                     | Interim Effluent Limitations and Monitoring Requirements – Monthly Submittal.                   |
|                                               | Table A-2                     | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
|                                               | Table A-3                     | Interim Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                 |
|                                               | Table A-4                     | Final Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                   |
|                                               | Table A-13                    | Final Effluent Limitations and Monitoring Requirements – Whole Effluent Toxicity (WET) Testing. |
| Outfall #002                                  | Table A-5                     | Interim Effluent Limitations and Monitoring Requirements – Monthly Submittal.                   |
|                                               | Table A-6                     | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
| Internal Monitoring Point #IP2                | Table A-7                     | Final Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                   |
| Outfall #002 & Internal Monitoring Point #IP2 | Table A-8                     | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
|                                               | Table A-9                     | Interim Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                 |
|                                               | Table A-10                    | Final Effluent Limitations and Monitoring Requirements – Quarterly Submittal.                   |
| Internal Monitoring Point #IP3                | Table A-11                    | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
| Internal Monitoring Point #IP1                |                               |                                                                                                 |
| Internal Monitoring Point #IP5                | Table A-12                    | Final Effluent Limitations and Monitoring Requirements – Monthly Submittal.                     |
| Internal Monitoring Point #IP4                |                               |                                                                                                 |
| Instream Monitoring Location #SM1             | Table B-1                     | Instream Monitoring Requirements – Quarterly Submittal.                                         |
| Instream Monitoring Location #SM2             | Table B-2                     | Instream Monitoring Requirements – Quarterly Submittal.                                         |

**Part II – Operator Certification Requirements**

☒ - This facility is required to have a certified operator.

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], the permittee shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Owned or operated by or for a

☒ - Municipalities

☐ - Federal agency

☐ - County

☐ - Public Sewer District

☐ - State agency

☐ - Private Sewer Company regulated by the Public Service Commission

☐ - Public Water Supply Districts

Each of the above entities are only applicable if they have a Population Equivalent greater than two hundred (200) or fifty (50) or more service connections.

This facility currently requires an operator with an A Certification Level based on the Neosho WWTP as a whole (both the Neosho Crowder WWTP and Neosho Shoal Creek WWTP) due to the definition of wastewater treatment systems in 10 CSR 20-9.020(1)(A). Please see **Appendix - Classification Worksheet**. Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator's Name: Tim E. Parvin  
Certification Number: 9806  
Certification Level: A

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

### **Part III– Operational Monitoring**

☒ - As per [10 CSR 20-9.010(4)], the facility is required to conduct operational monitoring.

### **Part IV – Receiving Stream Information**

**RECEIVING STREAM(S) TABLE: OUTFALL #001**

| WATER-BODY NAME | CLASS | WBID | DESIGNATED USES*                              | 12-DIGIT HUC  | DISTANCE TO CLASSIFIED SEGMENT (MI) |
|-----------------|-------|------|-----------------------------------------------|---------------|-------------------------------------|
| Shoal Creek     | P     | 3222 | AQL, CLF, DWS, HHP, IND, IRR, LWW, SCR, WBC-A | 11070207-0804 | Directly Discharges                 |

**RECEIVING STREAM(S) TABLE: OUTFALL #002**

| WATER-BODY NAME            | CLASS | WBID | DESIGNATED USES*                    | 12-DIGIT HUC  | DISTANCE TO CLASSIFIED SEGMENT (MI)                         |
|----------------------------|-------|------|-------------------------------------|---------------|-------------------------------------------------------------|
| Tributary to Buffalo Creek | --    | ---- | General Criteria                    | 11070208-0401 | To Losing: Directly Discharges<br>To First Classified: 0.05 |
| 8-20-13 MUDD V1.0          | C     | 3960 | AQL, HHP, IRR, LWW, SCR, WBC-B      |               |                                                             |
| Buffalo Creek              | C     | 3276 | AQL, HHP, IRR, LWW, SCR, WBC-B      |               | 3.2                                                         |
| Buffalo Creek              | P     | 3273 | AQL, CLF, HHP, IRR, LWW, SCR, WBC-A |               | 5.6                                                         |

**RECEIVING STREAM(S) TABLE: OUTFALL #003** – Stream information below refers to the location where the Neosho Crowder WWTP effluent enters the golf course irrigation storage ponds.

| WATER-BODY NAME            | CLASS | WBID | DESIGNATED USES*                    | 12-DIGIT HUC  | DISTANCE TO CLASSIFIED SEGMENT (MI)        |
|----------------------------|-------|------|-------------------------------------|---------------|--------------------------------------------|
| Tributary to Buffalo Creek | --    | ---- | General Criteria                    | 11070208-0401 | To Losing: 0.4<br>To First Classified: 1.3 |
| 8-20-13 MUDD V1.0          | C     | 3960 | AQL, HHP, IRR, LWW, SCR, WBC-B      |               |                                            |
| Buffalo Creek              | C     | 3276 | AQL, HHP, IRR, LWW, SCR, WBC-B      |               | 3.0                                        |
| Buffalo Creek              | P     | 3273 | AQL, CLF, HHP, IRR, LWW, SCR, WBC-A |               | 5.4                                        |

\* As per 10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1<sup>st</sup> classified receiving stream's beneficial water uses to be maintained are in the receiving stream table in accordance with [10 CSR 20-7.031(1)(C)].

Uses which may be found in the receiving streams table, above:  
10 CSR 20-7.031(1)(C)1.:

**AQL** = Protection of aquatic life (Current narrative use(s) are defined to ensure the protection and propagation of fish shellfish and wildlife, which is further subcategorized as: **WWH** = Warm Water Habitat; **CDF** = Cold-water fishery (Current narrative use is cold-water habitat.); **CLF** = Cool-water fishery (Current narrative use is cool-water habitat); **EAH** = Ephemeral Aquatic Habitat; **MAH** = Modified Aquatic Habitat; **LAH** = Limited Aquatic Habitat. This permit uses AQL effluent limitations in 10 CSR 20-7.031 Table A for all habitat designations unless otherwise specified.)

10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

**WBC** = Whole Body Contact recreation where the entire body is capable of being submerged;

**WBC-A** = Whole body contact recreation that supports swimming uses and has public access;

**WBC-B** = Whole body contact recreation that supports swimming;

**SCR** = Secondary Contact Recreation (like fishing, wading, and boating).

10 CSR 20-7.031(1)(C)3. to 7.:

**HHP** (formerly HHF) = Human Health Protection as it relates to the consumption of fish;

**IRR** = Irrigation for use on crops utilized for human or livestock consumption;

**LWW** = Livestock and wildlife watering (Current narrative use is defined as LWP = Livestock and Wildlife Protection);

**DWS** = Drinking Water Supply;

**IND** = Industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Table A currently does not have corresponding habitat use criteria for these defined uses)

**WSA** = Storm- and flood-water storage and attenuation; **WHP** = Habitat for resident and migratory wildlife species;

**WRC** = Recreational, cultural, educational, scientific, and natural aesthetic values and uses; **WHC** = Hydrologic cycle maintenance.

10 CSR 20-7.031(6): **GRW** = Groundwater

### RECEIVING STREAM(S) LOW-FLOW VALUES:

#### **OUTFALL #001**

| RECEIVING STREAM | LOW-FLOW VALUES (CFS) |      |       |
|------------------|-----------------------|------|-------|
|                  | 1Q10                  | 7Q10 | 30Q10 |
| Shoal Creek (P)  | 0.1                   | 0.1  | 1.0   |

#### **OUTFALL #002 & OUTFALL #003**

| RECEIVING STREAM           | LOW-FLOW VALUES (CFS) |      |       |
|----------------------------|-----------------------|------|-------|
|                            | 1Q10                  | 7Q10 | 30Q10 |
| Tributary to Buffalo Creek | 0.0                   | 0.0  | 0.0   |

### MIXING CONSIDERATIONS TABLE:

#### **OUTFALL #001**

| MIXING ZONE (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(II)(a)] |       |       | ZONE OF INITIAL DILUTION (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(II)(b)] |        |       |
|---------------------------------------------------------|-------|-------|----------------------------------------------------------------------|--------|-------|
| 1Q10                                                    | 7Q10  | 30Q10 | 1Q10                                                                 | 7Q10   | 30Q10 |
| 0.025                                                   | 0.025 | 0.25  | 0.0025                                                               | 0.0025 | N/A   |

#### **OUTFALL #002 & OUTFALL #003**

| MIXING ZONE (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(I)(a)] |      |       | ZONE OF INITIAL DILUTION (CFS)<br>[10 CSR 20-7.031(5)(A)4.B.(I)(b)] |      |       |
|--------------------------------------------------------|------|-------|---------------------------------------------------------------------|------|-------|
| 1Q10                                                   | 7Q10 | 30Q10 | 1Q10                                                                | 7Q10 | 30Q10 |
| 0.0                                                    | 0.0  | 0.0   | 0.0                                                                 | 0.0  | N/A   |

### RECEIVING STREAM MONITORING REQUIREMENTS:

#### **OUTFALL #001**

Facilities with a design flow greater than 100,000 gallons per day are required to sample their effluent quarterly for total nitrogen and total phosphorus per 10 CSR 20-7.015(9)(D)7. Instream (Permitted Feature #SM1 – Upstream) monitoring for these parameters is necessary to determine background concentrations in order to complete calculations related to future effluent limit derivation where necessary or appropriate. Instream (Permitted Feature #SM2 – Downstream) total hardness data collected will be used to establish a site-specific hardness value which may be used in effluent limitations derivation calculations for hardness dependent metals.

#### **OUTFALL #002 & OUTFALL #003**

No receiving water monitoring requirements recommended at this time.



### **RECEIVING WATER BODY'S WATER QUALITY:**

#### **OUTFALL #001**

Outfall #001 discharges to a 303(d) listed stream. Shoal Creek (P) (3222) is listed on the 2016, originally 2014, Missouri 303(d) List for Zinc (S). The 2016 Missouri 303(d) List identifies the source of the impairment as Mill Tailings. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Shoal Creek (P) (3222). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

#### **OUTFALL #002**

Outfall #002 discharges approximately 5.6 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments/Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

The Neosho Crowder WWTP discharges to a stream with an EPA approved TMDL. The majority of the time, the Neosho Crowder WWTP does not discharge to the Elk River basin and was therefore not included in the TMDL calculation. During normal flows, the effluent is piped from the Neosho Crowder WWTP to the Neosho Shoal Creek WWTP before being discharged into the Shoal Creek basin. Outfall #002, however, continues to exist in the Elk River basin and may discharge under high flow conditions. The TMDL states that if the City of Neosho chooses to maintain this potential discharge to the Elk River basin, a discharge limitation of 1.5 mg/L as a daily maximum for total phosphorus will be included in the permit. The TMDL also states that the alternative would be for the City of Neosho to eliminate Outfall #002. This requirement is reflected in this permit as a load-based daily maximum final effluent limitation in lbs/day.

#### **OUTFALL #003**

Effluent monitored at Internal Monitoring Point #IP2 discharges from Outfall #003, which is approximately 5.4 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments / Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

#### **Comments:**

Outfall #003 is the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds. These ponds and the potential discharge from these ponds are located within the same watershed as Outfall #002. However, Outfall #003 is not listed in the TMDL for the Elk River basin. Therefore, it has been determined by the permit writer that the requirements and assumption of the Elk River basin TMDL do not apply to Outfall #003 or the monitoring location Internal Monitoring Point #002.

## **Part V – Rationale and Derivation of Effluent Limitations & Permit Conditions**

### **ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:**

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

☒ - The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

### **ANTI-BACKSLIDING:**

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(o); 40 CFR Part 122.44(l)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

☒ - Limitations in this operating permit for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.

### **Outfall #001:**

☒ - Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance.

- **pH.** The previous permit included final effluent limitations of 6.5-9.0 SU. However, pH limitations [10 CSR 20-7.015] are protective of the water quality standard [10 CSR 20-7.031(5)(E)], due to the buffering capacity of the mixing zone. Therefore, it has been determined by the permit writer that final effluent limitations of 6.0-9.0 SU be included in the permit.

- **Chromium (III), Total Recoverable.** The previous permit included final effluent limitations of 976.2 µg/L as a daily maximum and 389.3 µg/L as a monthly average. Over the previous five years, the permittee has reported non-detects which are less than the water quality standards. It has been determined by the permit writer that at this time no reasonable potential exists for this facility to exceed water quality criteria therefore, monitoring only requirements are included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Chromium (VI), Dissolved.** The previous permit included final effluent limitations of 20.3 µg/L as a daily maximum and 8.1 µg/L as a monthly average. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Whole Effluent Toxicity (WET) test.** WET testing requirements were changed from pass/fail to monitoring only for toxic units. This change reflects modifications to Missouri's Effluent Regulation found at 10 CSR 20-7.015. 40 CFR 122.44(d)(1)(ii) requiring the department to establish effluent limitations to control all parameters which have the reasonable potential to cause or contribute to an excursion above any state water quality standard, including state narrative criteria. The previous permit imposed a pass/fail limitation without collecting sufficient numerical data to conduct an analytical reasonable potential analysis. The permit writer has made a reasonable potential determination which concluded the facility does not have reasonable potential at this time but monitoring is required. Implementation of the toxic unit monitoring requirement will allow the department to effect numeric criteria in accordance with water quality standards established under §303 of the CWA.

**Outfall #002:**

- ☒ - Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance.
- **Escherichia coli (E. coli).** The previous permit included final effluent limitations of 126 #/100 mL as a daily maximum and monthly average. Discharges to losing streams shall not exceed 126 #/100 mL as a daily maximum at any time, as per 10 CSR 20-7.031(5)(C) and monitoring only for a monthly average, as no more than 10% of samples over the course of the calendar year shall exceed 126 #/100 mL daily maximum as per 10 CSR 20-7.015(9)(B)1.G. Therefore, this permit includes final effluent limitations of 126 #/100 mL as a daily maximum and monitoring only requirements as a monthly average.
  - **Nitrates as N.** The previous permit included final effluent limitations of 20 mg/L as a daily maximum and 10 mg/L as a monthly average in order to protect both groundwater and drinking water. After review of discharge monitoring reports over the previous five years, the permit writer made a reasonable potential determination that there is no reasonable potential to exceed the water quality standard for nitrates at this time. However, monitoring only requirements have been included in the permit in order to verify this determination. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality.
  - **Whole Effluent Toxicity (WET) test.** The previous permit included requirements to conduct an Acute WET test once every year at the Neosho Crowder WWTP (Outfall #002). However, when a discharge occurs at Outfall #002, it is due to high flow events caused by Inflow and Infiltration (I&I). These discharges have been determined to not be representative of the facility's performance by the permit writer due to dilution of the effluent. Additionally, WET testing should occur during critical low flow scenarios, which will not be the conditions of the receiving stream at the time of a discharge from Outfall #002. During normal flow conditions, the effluent from Outfall #002 is sent to the Neosho Shoal Creek WWTP (Outfall #001) where the effluents combine prior to sample collection for WET test purposes. This means that when the permittee collects a sample at Outfall #001 for WET test requirements, effluent from the Neosho Crowder WWTP, which is representative of normal flow conditions, will be included in the sample for compliance with WET test requirements of Outfall #001. Therefore, it has been determined by the permit writer that WET testing requirements be removed for Outfall #002 in this permit.
- ☒ - The Department determines that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).
- **1,2-dichloroethane, 1,1,2-trichloroethane, Cyanide (Amenable to Chlorination), Phenol, Total Dissolved Boron, & Total Recoverable Lead.** It has been determined by the permit writer that derivation of final effluent limitations for the above listed parameters were done so incorrectly. Therefore, effluent limitations have been reevaluated for the purposes of this permit renewal. As a result, final effluent limitations included in this permit are less stringent than previously established. These effluent limitations are still protective of water quality standards. Data collected will be reviewed upon renewal to verify these determinations.

**ANTIDEGRADATION:**

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(3)], for domestic wastewater discharge with new, altered, or expanding discharges, the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the department prior to establishing, altering, or expanding discharges. See <http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm>

☒ - No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

For stormwater discharges with new, altered, or expanding discharges, the stormwater BMP chosen for the facility, through the antidegradation analysis performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

**AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:**

As per [10 CSR 20-6.010(3)(B)], ...An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

**BIOSOLIDS & SEWAGE SLUDGE:**

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: <http://extension.missouri.edu/main/DisplayCategory.aspx?C=74>, items WQ422 through WQ449.

☒ - Permittee has and a Department approved biosolids management plan, and is authorized to land applies biosolids in accordance with Standard Conditions III.

**COMPLIANCE AND ENFORCEMENT:**

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

☒ - The facility is not currently under Water Protection Program enforcement action.

**ELECTRONIC DISCHARGE MONITORING REPORT (EDMR) SUBMISSION SYSTEM:**

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by converting to an electronic data reporting system. This final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a permittee must first submit an eDMR Waiver Request Form: <http://dnr.mo.gov/forms/780-2692-f.pdf>. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is non-transferable.

The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so and electronically submit the data to the EPA on behalf of the facility.

☒ - The permittee/facility is not currently using the eDMR data reporting system. The permittee shall submit an eDMR Permit Holder and Certifier Registration form **within 90 days of the effective date** of this permit.

**PRETREATMENT PROGRAM:**

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Several special conditions pertaining to the permittee's pretreatment program may be included in the permit, and are as follows:

- Implementation and enforcement of the program,
- Annual pretreatment report submittal,
- Submittal of list of industrial users,
- Technical evaluation of need to establish local limitations, and
- Submittal of the results of the evaluation

☒ - This permittee has an approved pretreatment program in accordance with the requirements of [40 CFR Part 403] and [10 CSR 20-6.100] and is expected to implement and enforce its approved program.

**REASONABLE POTENTIAL ANALYSIS (RPA):**

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(1)(iii)] if the permit writer determines that any given pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

☒ - A RPA was conducted on appropriate parameters. Please see **APPENDIX – RPA RESULTS**.

**REMOVAL EFFICIENCY:**

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

**Outfall #001:** Secondary Treatment is 85% removal [40 CFR Part 133.102(a)(3) & (b)(3)].

**Outfall #002:** Equivalent to Secondary Treatment is 65% removal [40 CFR Part 133.105(a)(3) & (b)(3)].

**SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):**

Sanitary Sewer Overflows (SSOs) are defined as untreated sewage releases and are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSOs result from a variety of causes including blockages, line breaks, and sewer defects that can either allow wastewater to backup within the collection system during dry weather conditions or allow excess stormwater and groundwater to enter and overload the collection system during wet weather conditions. SSOs can also result from lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs include overflows out of manholes, cleanouts, broken pipes, and other into waters of the state and onto city streets, sidewalks, and other terrestrial locations.

Inflow and Infiltration (I&I) is defined as unwanted intrusion of stormwater or groundwater into a collection system. This can occur from points of direct connection such as sump pumps, roof drain downspouts, foundation drains, and storm drain cross-connections or through cracks, holes, joint failures, faulty line connections, damaged manholes, and other openings in the collection system itself. I&I results from a variety of causes including line breaks, improperly sealed connections, cracks caused by soil erosion/settling, penetration of vegetative roots, and other sewer defects. In addition, excess stormwater and groundwater entering the collection system from line breaks and sewer defects have the potential to negatively impact the treatment facility.

Missouri RSMo §644.026.1.(13) mandates that the Department issue permits for discharges of water contaminants into the waters of this state, and also for the operation of sewer systems. Such permit conditions shall ensure compliance with all requirements as established by sections 644.006 to 644.141. Standard Conditions Part I, referenced in the permit, contains provisions requiring proper operation and maintenance of all facilities and systems of treatment and control. Missouri RSMo §644.026.1.(15) instructs the Department to require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities. To ensure that public health and the environment are protected, any noncompliance which may endanger public health or the environment must be reported to the Department within 24 hours of the time the permittee becomes

aware of the noncompliance. Standard Conditions Part I, referenced in the permit, contains the reporting requirements for the permittee when bypasses and upsets occur. The permit also contains requirements for permittees to develop and implement a program for maintenance and repair of the collection system. The permit requires that the permittee submit an annual report to the Department for the previous calendar year that contains a summary of efforts taken by the permittee to locate and eliminate sources of excess I & I, a summary of general maintenance and repairs to the collection system, and a summary of any planned maintenance and repairs to the collection system for the upcoming calendar year.

☒ - At this time, the Department recommends the US EPA's Guide for Evaluating Capacity, Management, Operation and Maintenance (CMOM) Programs At Sanitary Sewer Collection Systems (Document # EPA 305-B-05-002) or the Departments' CMOM Model located at <http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc>. For additional information regarding the Departments' CMOM Model, see the CMOM Plan Model Guidance document at <http://dnr.mo.gov/pubs/pub2574.htm>. The CMOM identifies some of the criteria used to evaluate a collection system's management, operation, and maintenance and was intended for use by the EPA, state, regulated community, and/or third party entities. The CMOM is applicable to small, medium, and large systems; both public and privately owned; and both regional and satellite collection systems. The CMOM does not substitute for the Clean Water Act, the Missouri Clean Water Law, and both federal and state regulations, as it is not a regulation.

#### **SCHEDULE OF COMPLIANCE (SOC):**

Per 644.051.4 RSMo, a permit may be issued with a Schedule of Compliance (SOC) to provide time for a facility to come into compliance with new state or federal effluent regulations, water quality standards, or other requirements. Such a schedule is not allowed if the facility is already in compliance with the new requirement, or if prohibited by other statute or regulation. A SOC includes an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. *See also* Section 502(17) of the Clean Water Act, and 40 CFR §122.2. For new effluent limitations, the permit includes interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(11), compliance must occur as soon as possible. If the permit provides a schedule for meeting new water quality based effluent limits, a SOC must include an enforceable, final effluent limitation in the permit even if the SOC extends beyond the life of the permit.

A SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed. 40 CFR § 125.3.
- For a newly constructed facility in most cases. Newly constructed facilities must meet applicable effluent limitations when discharge begins, because the facility has installed the appropriate control technology as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit that was not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be granted for conducting these activities.

In order to provide guidance to Permit Writers in developing SOC's, and attain a greater level of consistency, on April 9, 2015 the Department issued an updated policy on development of SOC's. This policy provides guidance to Permit Writers on the standard time frames for schedules for common activities, and guidance on factors that may modify the length of the schedule such as a Cost Analysis for Compliance.

☒ - The time given for effluent limitations of this permit listed under Interim Effluent Limitation and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(11)].

#### **Outfall #001:**

The facility has been given a schedule of compliance to meet final effluent limits for ammonia, phenol, total recoverable cadmium, total recoverable iron, and total recoverable selenium. The existing oxidation ditch facility employs technology capable of meeting the proposed final effluent limitations for ammonia, but discharge monitoring reports indicate the facility has not always been in compliance with the proposed limitations. Therefore this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001. As a result of a Reasonable Potential Analysis (RPA), it has been determined that the facility has a reasonable potential to exceed water quality standards for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

**Outfall #002:**

The facility has been given a schedule of compliance to meet final effluent limits for total phosphorus. The five (5) year schedule of compliance allowed for this facility should provide adequate time to evaluate operations, obtain an engineering report, obtain a construction permit and implement upgrades required to meet effluent limits. Due to the economic burden on this community of the cost of compliance and associated difficulty in raising the necessary funding, the schedule has been established at five (5) years in accordance with the Department's "Schedule of Compliance, Policy for Staff Drafting Operating Permits". Please see the Cost Analysis for Compliance attached as an appendix to the permit for further detail on how the socio-economic status of the community has impacted this SOC.

**Outfall #002 and Internal Monitoring Point #IP2:**

The facility has been given a schedule of compliance to meet final effluent limits for total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc. As a result of technical mistakes noticed by the permit writer, this permit includes new and more stringent effluent limitations than those of the previous permit for the above listed parameters. Due to the fact that these are new and more stringent effluent limitations and the limited amount of effluent data related to the above listed parameters, the facility has requested a schedule of compliance to meet final effluent limitations. Therefore, this permit includes a one (1) year schedule of compliance to make sufficient operational changes so that consistent compliance with final effluent limitations for ammonia is attained at Outfall #001.

**SEWER EXTENSION AUTHORITY SUPERVISED PROGRAM:**

In accordance with [10 CSR 20-6.010(6)(A)], the department may grant approval of a permittee's Sewer Extension Authority Supervised Program. These approved permittees regulate and approve construction of sanitary sewers and pump stations, which are tributary to this wastewater treatment facility. The permittee shall act as the continuing authority for the operation, maintenance, and modernization of the constructed collection system. See <http://dnr.mo.gov/env/wpp/permits/sewer-extension.htm>.

☒ - The permittee does not have a department approved Sewer Extension Authority Supervised Program.

**STORMWATER POLLUTION PREVENTION PLAN (SWPPP):**

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of stormwater discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of stormwater discharges. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff. Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the permittee should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and re-evaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

For new, altered, or expanded stormwater discharges, the SWPPP shall identify reasonable and effective BMPs while accounting for environmental impacts of varying control methods. The antidegradation analysis must document why no discharge or no exposure options are not feasible. The selection and documentation of appropriate control measures shall serve as an alternative analysis of



technology and fulfill the requirements of antidegradation [10 CSR 20-7.031(3)]. For further guidance, consult the antidegradation implementation procedure (<http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf>).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs that are reasonable and cost effective. The AA evaluation should include practices that are designed to be: 1) non-degrading; 2) less degrading; or 3) degrading water quality. The glossary of AIP defines these three terms. The chosen BMP will be the most reasonable and effective management strategy while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The AA evaluation must demonstrate why “no discharge” or “no exposure” is not a feasible alternative at the facility. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.031(3) Water Quality Standards and *Antidegradation Implementation Procedure* (AIP), Section II.B.

If parameter-specific numeric exceedances continue to occur and the permittee feels there are no practicable or cost-effective BMPs which will sufficiently reduce a pollutant concentration in the discharge to the benchmark values established in the permit, the permittee can submit a request to re-evaluate the benchmark values. This request needs to include 1) a detailed explanation of why the facility is unable to comply with the permit conditions and unable to establish BMPs to achieve the benchmark values; 2) financial data of the company and documentation of cost associated with BMPs for review and 3) the SWPPP, which should contain adequate documentation of BMPs employed, failed BMPs, corrective actions, and all other required information. This will allow the department to conduct a cost analysis on control measures and actions taken by the facility to determine cost-effectiveness of BMPs. The request shall be submitted in the form of an operating permit modification; the application is found at: <http://dnr.mo.gov/forms/index.html>.

☒ - 10 CSR 20-6.200 and 40 CFR 122.26 includes treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that is located within the confines of the facility, with a design flow of 1.0 mgd or more, or are required to have an approved pretreatment program under 40 CFR part 403, as an industrial activity in which permit coverage is required.

In lieu of requiring sampling in the site-specific permit, the facility is required to develop and implement a Stormwater Pollution Prevention Plan. A facility can apply for conditional exclusion for “no exposure” of industrial activities and materials to stormwater by submitting to the Department a completed NPDES Form 3510-11 – No Exposure Certification for Exclusion from NPDES Stormwater Permitting. That document can be found at [https://www3.epa.gov/npdes/pubs/msgp2008\\_appendixk.pdf](https://www3.epa.gov/npdes/pubs/msgp2008_appendixk.pdf) and additional information may be found at <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#exclusion>. Upon approval of the “No Exposure”, the permit can be modified to remove the SWPPP requirements. If the facility chooses to retain the conditional exclusion for “no exposure”, the facility is required to renew the “No Exposure” exemption during the permit renewal period by submitting NPDES Form 3510-11 with Form B2.

#### **VARIANCE:**

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

☒ - This operating permit is not drafted under premises of a petition for variance.

#### **WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:**

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

☒ - Wasteload allocations were calculated where applicable using water quality criteria or water quality model results and the dilution equation below:

$$C_e = \frac{(Q_e + Q_s)C - (Q_s \times C_s)}{(Q_e)} \quad (\text{EPA/505/2-90-001, Section 4.5.5})$$

Where C = downstream concentration      C<sub>e</sub> = effluent concentration  
Cs = upstream concentration              Q<sub>e</sub> = effluent flow  
Q<sub>s</sub> = upstream flow

Chronic wasteload allocations were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ). Acute wasteload allocations were

determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

**Number of Samples "n":**

Additionally, in accordance with the TSD for water quality-based permitting, effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying distribution or treatment performance, which should be, at a minimum, be targeted to comply with the values dictated by the WLA. Therefore, it is recommended that the actual planned frequency of monitoring normally be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4" at a minimum. For Total Ammonia as Nitrogen, "n = 30" is used.

**WLA MODELING:**

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

☒ - A WLA study was either not submitted or determined not applicable by Department staff.

**WATER QUALITY STANDARDS:**

Per [10 CSR 20-7.031(4)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

**WHOLE EFFLUENT TOXICITY (WET) TEST:**

**Outfall #001:** The permittee is required to conduct WET test for this facility.

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A)7. and the Water Quality Standards 10 CSR 20-7.031(4)(D),(F),(G),(I)2.A & B are being met. Under [10 CSR 20-6.010(8)(A)4], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§644.051.3 requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc...); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by facilities meeting the following criteria:

- ☒ Facility is a designated Major.
- ☐ Facility continuously or routinely exceeds its design flow.
- ☐ Facility that exceeds its design population equivalent (PE) for BOD<sub>5</sub> whether or not its design flow is being exceeded.
- ☐ Facility (whether primarily domestic or industrial) that alters its production process throughout the year.
- ☒ Facility handles large quantities of toxic substances, or substances that are toxic in large amounts.
- ☒ Facility has Water Quality-based Effluent Limitations for toxic substances (other than NH<sub>3</sub>).
- ☒ Facility is a municipality with a Design Flow ≥ 22,500 gpd.

**Outfall #002:** At this time, the permittee is not required to conduct WET test for this facility.

**40 CFR 122.41(M) - BYPASSES:**

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-7.015(9)(G) states a bypass means the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending, to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR

122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

☒ - This facility does not anticipate bypassing.

### **303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):**

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

**Outfall #001:** Outfall #001 discharges to a 303(d) listed stream. Shoal Creek (P) (3222) is listed on the 2016, originally 2014, Missouri 303(d) List for Zinc (S). The 2016 Missouri 303(d) List identifies the source of the impairment as Mill Tailings. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Shoal Creek (P) (3222). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

**Outfall #002:** Outfall #002 discharges approximately 5.6 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments/Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

The Neosho Crowder WWTP discharges to a stream with an EPA approved TMDL. The majority of the time, the Neosho Crowder WWTP does not discharge to the Elk River basin and was therefore not included in the TMDL calculation. During normal flows, the effluent is piped from the Neosho Crowder WWTP to the Neosho Shoal Creek WWTP before being discharged into the Shoal Creek basin. Outfall #002, however, continues to exist in the Elk River basin and may discharge under high flow conditions. The TMDL states that if the City of Neosho chooses to maintain this potential discharge to the Elk River basin, a discharge limitation of 1.5 mg/L as a daily maximum for total phosphorus will be included in the permit. The TMDL also states that the alternative would be for the City of Neosho to eliminate Outfall #002. This requirement is reflected in this permit as a load-based daily maximum final effluent limitation in lbs/day.

**Outfall #003:** Effluent monitored at Internal Monitoring Point #IP2 discharges from Outfall #003, which is approximately 5.4 miles from a 303(d) listed stream. Buffalo Creek (P) (3273) is listed on the 2016, originally 2012, Missouri 303(d) List for Fishes Bioassessments / Unknown. It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Buffalo Creek (P) (3273). Once a TMDL is developed, the permit may be modified to include WLAs from the TMDL.

Outfall #003 is the location at which effluent from the Neosho Crowder WWTP is discharged to the golf course irrigation storage ponds. These ponds and the potential discharge from these ponds are located within the same watershed as Outfall #002. However, Outfall #003 is not listed in the TMDL for the Elk River basin. Therefore, it has been determined by the permit writer that the requirements and assumption of the Elk River basin TMDL do not apply to Outfall #003 or the monitoring location Internal Monitoring Point #002.

## **Part VI –2013 Water Quality Criteria for Ammonia**

Upcoming changes to the Water Quality Standard for ammonia may require significant upgrades to wastewater treatment facilities.

On August 22, 2013, the U.S. Environmental Protection Agency (EPA) finalized new water quality criteria for ammonia, based on toxicity studies of mussels and gill breathing snails. Missouri's current ammonia criteria are based on toxicity testing of several species, but did not include data from mussels or gill breathing snails. Missouri is home to 69 of North America's mussel species, which are spread across the state. According to the Missouri Department of Conservation nearly two-thirds of the mussel species in Missouri are considered to be "of conservation concern". Nine species are listed as federally endangered, with an additional species currently proposed as endangered and another species proposed as threatened.

The adult forms of mussels that are seen in rivers, lakes, and streams are sensitive to pollutants because they are sedentary filter feeders. They vacuum up many pollutants with the food they bring in and cannot escape to new habitats, so they can accumulate

toxins in their bodies and die. But very young mussels, called glochidia, are exceptionally sensitive to ammonia in water. As a result of a citizen suit, the EPA was compelled to conduct toxicity testing and develop ammonia water quality criteria that would be protective if young mussels may be present in a waterbody. These new criteria will apply to any discharge with ammonia levels that may pose a reasonable potential to violate the standards. Nearly all discharging domestic wastewater treatment facilities (cities, subdivisions, mobile home parks, etc.), as well as certain industrial and stormwater dischargers with ammonia in their effluent, will be affected by this change in the regulations.

When new water quality criteria are established by the EPA, states must adopt them into their regulations in order to keep their authorization to issue permits under the National Pollutant Discharge Elimination System (NPDES). States are required to review their water quality standards every three years, and if new criteria have been developed they must be adopted. States may be more protective than the Federal requirements, but not less protective. Missouri does not have the resources to conduct the studies necessary for developing new water quality standards, and therefore our standards mirror those developed by the EPA; however, we will utilize any available flexibility based on actual species of mussels that are native to Missouri and their sensitivity to ammonia.

Many treatment facilities in Missouri are currently scheduled to be upgraded to comply with the current water quality standards. But these new ammonia standards may require a different treatment technology than the one being considered by the permittee. It is important that permittees discuss any new and upcoming requirements with their consulting engineers to ensure that their treatment systems are capable of complying with the new requirements. The Department encourages permittees to construct treatment technologies that can attain effluent quality that supports the EPA ammonia criteria.

Ammonia toxicity varies by temperature and by pH of the water. Assuming a stable pH value, but taking into account winter and summer temperatures, Missouri includes two seasons of ammonia effluent limitations.

#### **Outfall #001:**

Current effluent limitations in this permit for summer are – 6.1 mg/L daily maximum, 1.2 mg/L monthly average.

Current effluent limitations in this permit for winter are – 11.9 mg/L daily maximum, 2.2 mg/L monthly average.

Under the new EPA criteria, where mussels of the family Unionidae are present or expected to be present, the estimated effluent limitations for a facility in a location such as this that discharges to a receiving stream with the mixing consideration listed in Part IV of the Fact Sheet will be:

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen CCC (mg/L) | Total Ammonia Nitrogen CMC (mg/L) |
|--------|-----------|---------|-----------------------------------|-----------------------------------|
| Summer | 26        | 7.8     | 0.7                               | 3.4                               |
| Winter | 6         | 7.8     | 2.3                               | 13                                |

#### **Summer: April 1 – September 30**

$$\text{Chronic WLA: } C_e = ((9.3 + 0.25)0.7 - (0.25 * 0.01))/9.3$$

$$C_e = 0.72 \text{ mg/L}$$

$$\text{Acute WLA: } C_e = ((9.3 + 0.0025)3.4 - (0.0025 * 0.01))/9.3$$

$$C_e = 3.40 \text{ mg/L}$$

$$\text{LTA}_c = 0.72 \text{ mg/L } (0.425) = 0.31 \text{ mg/L}$$

$$[\text{CV} = 2.30, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$$

$$\text{LTA}_a = 3.40 \text{ mg/L } (0.107) = 0.36 \text{ mg/L}$$

$$[\text{CV} = 2.30, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 0.31 \text{ mg/L } (9.34) = 2.9 \text{ mg/L}$$

$$[\text{CV} = 2.30, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 0.31 \text{ mg/L } (1.79) = 0.5 \text{ mg/L}$$

$$[\text{CV} = 2.30, 95^{\text{th}} \text{ Percentile, } n = 30]$$

#### **Winter: October 1 – March 31**

$$\text{Chronic WLA: } C_e = ((9.3 + 0.25)2.3 - (0.25 * 0.01))/9.3$$

$$C_e = 2.36 \text{ mg/L}$$

$$\text{Acute WLA: } C_e = ((9.3 + 0.0025)13 - (0.0025 * 0.01))/9.3$$

$$C_e = 13.00 \text{ mg/L}$$

$$\text{LTA}_c = 2.36 \text{ mg/L } (0.345) = 0.82 \text{ mg/L}$$

$$[\text{CV} = 3.01, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$$

$$\text{LTA}_a = 13.00 \text{ mg/L } (0.093) = 1.20 \text{ mg/L}$$

$$[\text{CV} = 3.01, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 0.82 \text{ mg/L (10.80)} = 8.8 \text{ mg/L}$$

$$\text{AML} = 0.82 \text{ mg/L (2.04)} = 1.7 \text{ mg/L}$$

$$[\text{CV} = 3.01, 99^{\text{th}} \text{ Percentile}]$$

$$[\text{CV} = 3.01, 95^{\text{th}} \text{ Percentile, } n = 30]$$

Summer – 2.9 mg/L daily maximum, 0.5 mg/L monthly average.

Winter – 8.8 mg/L daily maximum, 1.7 mg/L monthly average.

#### **Outfall #002 & Internal Monitoring Point #IP2:**

Current effluent limitations in this permit for summer are – 3.6 mg/L daily maximum, 1.4 mg/L monthly average.

Current effluent limitations in this permit for winter are – 7.5 mg/L daily maximum, 2.9 mg/L monthly average.

Under the new EPA criteria, where mussels of the family Unionidae are present or expected to be present, the estimated effluent limitations for a facility in a location such as this that discharges to a receiving stream with no mixing will be:

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen CCC (mg/L) | Total Ammonia Nitrogen CMC (mg/L) |
|--------|-----------|---------|-----------------------------------|-----------------------------------|
| Summer | 26        | 7.8     | 0.7                               | 3.4                               |
| Winter | 6         | 7.8     | 2.3                               | 13                                |

#### **Summer: April 1 – September 30**

Chronic WLA:  $C_e = ((4.65 + 0.0)0.7 - (0.0 * 0.01))/4.65$   
 $C_e = 0.70 \text{ mg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)3.4 - (0.0 * 0.01))/4.65$   
 $C_e = 3.40 \text{ mg/L}$

$$\text{LTA}_c = 0.70 \text{ mg/L (0.780)} = 0.55 \text{ mg/L}$$

$$\text{LTA}_a = 3.40 \text{ mg/L (0.321)} = 1.09 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 0.55 \text{ mg/L (3.11)} = 1.7 \text{ mg/L}$$

$$\text{AML} = 0.55 \text{ mg/L (1.19)} = 0.6 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 30]$$

#### **Winter: October 1 – March 31**

Chronic WLA:  $C_e = ((4.65 + 0.0)2.3 - (0.0 * 0.01))/4.65$   
 $C_e = 2.30 \text{ mg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)13 - (0.0 * 0.01))/4.65$   
 $C_e = 13.00 \text{ mg/L}$

$$\text{LTA}_c = 2.30 \text{ mg/L (0.780)} = 1.79 \text{ mg/L}$$

$$\text{LTA}_a = 13.00 \text{ mg/L (0.321)} = 4.17 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile, 30 day avg.}]$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 1.79 \text{ mg/L (3.11)} = 5.6 \text{ mg/L}$$

$$\text{AML} = 1.79 \text{ mg/L (1.19)} = 2.1 \text{ mg/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 30]$$

Summer – 1.7 mg/L daily maximum, 0.6 mg/L monthly average.

Winter – 5.6 mg/L daily maximum, 2.1 mg/L monthly average.

These estimated limits above are based in part on the actual performance of the plant at the time of the drafting of this permit and should not be construed as future effluent limitations. Future effluent limits, based on the EPA's 2013 water quality criteria for ammonia, will depend in part on the actual performance of the facility at the time the permit is renewed.

Operating permits for facilities in Missouri must be written based on current statutes and regulations. Therefore permits will be written with the existing effluent limitations until the new standards are adopted. To aid permittees in decision making, an advisory will be added to permit Fact Sheets notifying permittees of the expected effluent limitations for ammonia. When setting schedules of compliance for ammonia effluent limitations, consideration will be given to facilities that have recently constructed upgraded facilities to meet the current ammonia limitations.

For more information on this topic feel free to contact the Missouri Department of Natural Resources, Water Protection Program, Water Pollution Control Branch, Operating Permits Section at (573) 751-1300.

## Part VII – Effluent Limits Determination

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

### OUTFALL #001 – MAIN FACILITY OUTFALL AT NEOSHO SHOAL CREEK WWTP

#### APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section. For this permitted feature, please see; All Other Waters [10 CSR 20-7.015(8)].

#### EFFLUENT LIMITATIONS TABLE:

| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum | Weekly Average | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|-----------------------------------|---------|------------------|---------------|----------------|-----------------|-----------------------|--------------------|---------------------|------------------|
| Flow                              | MGD     | 1                | *             |                | _*              | _*/*                  | _1/day             | _monthly            | _T               |
| Ammonia as N (Apr 1 – Sep 30)     | mg/L    | 2, 3             | 6.1           |                | _1.2            | _*/*                  | _2/month           | monthly             | _G               |
| Ammonia as N (Oct 1 – Mar 31)     | mg/L    | 2, 3             | 11.9          |                | _2.2            | _*/*                  | _2/month           | monthly             | _G               |
| <i>Escherichia coli</i> **        | #/100mL | 1, 3             |               | 630            | 126             | _630/126              | _1/week            | monthly             | _G               |
| PARAMETER                         | Unit    | Basis for Limits | Minimum       |                | Maximum         | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| pH                                | SU      | 1                | _6.0          |                | _9.0            | 6.5-9.0               | _1/week            | monthly             | G                |
| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum |                | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
| Oil & Grease                      | mg/L    | 1, 3             | 15            |                | _10             | 15/10                 | _1/quarter         | _quarterly          | _G               |
| Total Nitrogen                    | mg/L    | 1                | *             |                | _*              | _****                 | _1/quarter         | _quarterly          | _G               |
| Total Phosphorus                  | mg/L    | 1                | *             |                | _*              | _****                 | _1/quarter         | _quarterly          | _G               |
| Phenol                            | µg/L    | 2, 3             | 4,200.5       |                | _1,316.3        | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Cadmium, Total Recoverable        | µg/L    | 2, 3             | 0.6           |                | _0.3            | 2.9/1.0               | _1/quarter         | _quarterly          | _C               |
| Chromium (III), Total Recoverable | µg/L    | 2, 3             | *             |                | _*              | _976.2 / 389.3        | _1/quarter         | _quarterly          | _C               |
| Chromium (VI), Dissolved          | µg/L    | 2, 3             | *             |                | _*              | 20.3/8.1              | _1/quarter         | _quarterly          | _G               |
| Copper, Total Recoverable         | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Iron, Total Recoverable           | µg/L    | 2, 3             | 1,849.6       |                | _702.5          | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Lead, Total Recoverable           | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Mercury, Total Recoverable        | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Nickel, Total Recoverable         | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Selenium, Total Recoverable       | µg/L    | 2, 3             | 9.2           |                | _3.2            | 36/17.1               | _1/quarter         | _quarterly          | _C               |
| Zinc, Total Recoverable           | µg/L    | 2, 3             | *             |                | _*              | _*/*                  | _1/quarter         | _quarterly          | _C               |
| Acute Whole Effluent Toxicity     | TUa     | 1, 9             | *             |                |                 | _pass/fail            | _1/year            | _annually           | _C               |
| Chronic Whole Effluent Toxicity   | TUc     | 1, 9             | *             |                |                 | _****                 | _1/permit cycle    | _1/permit cycle     | _C               |



|     |   |                                                                          |      |   |                        |
|-----|---|--------------------------------------------------------------------------|------|---|------------------------|
| _*  | - | Monitoring requirement only.                                             | **** | - | .C = 24-hour composite |
| **  | - | #/100mL; the Monthly Average for <i>E. coli</i> is a geometric mean.     |      |   | G = Grab               |
| *** | - | Parameter not previously established in previous state operating permit. |      |   | T = 24-hr. total       |

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**OUTFALL #001 – MAIN FACILITY OUTFALL AT NEOSHO SHOAL CREEK WWTP – DERIVATION AND DISCUSSION OF LIMITS:**

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Total Ammonia Nitrogen.** Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(5)(B)7.C. & Table B3]. Background total ammonia nitrogen = 0.01 mg/L.

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen<br>CCC (mg/L) | Total Ammonia Nitrogen<br>CMC (mg/L) |
|--------|-----------|---------|--------------------------------------|--------------------------------------|
| Summer | 26        | 7.8     | 1.5                                  | 12.1                                 |
| Winter | 6         | 7.8     | 3.1                                  | 12.1                                 |

**Summer: April 1 – September 30**

Chronic WLA:  $C_e = ((9.3 + 0.25)1.5 - (0.25 * 0.01))/9.3$   
 $C_e = 1.54 \text{ mg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)12.1 - (0.0025 * 0.01))/9.3$   
 $C_e = 12.10 \text{ mg/L}$

$LTA_c = 1.54 \text{ mg/L} (0.425) = 0.65 \text{ mg/L}$   
 $LTA_a = 12.10 \text{ mg/L} (0.107) = 1.30 \text{ mg/L}$

[CV = 2.30, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 2.30, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL =  $0.65 \text{ mg/L} (9.34) = 6.1 \text{ mg/L}$   
AML =  $0.65 \text{ mg/L} (1.79) = 1.2 \text{ mg/L}$

[CV = 2.30, 99<sup>th</sup> Percentile]  
[CV = 2.30, 95<sup>th</sup> Percentile, n =30]

**Winter: October 1 – March 31**

Chronic WLA:  $C_e = ((9.3 + 0.25)3.1 - (0.25 * 0.01))/9.3$   
 $C_e = 3.18 \text{ mg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)12.1 - (0.0025 * 0.01))/9.3$   
 $C_e = 12.10 \text{ mg/L}$

$LTA_c = 3.18 \text{ mg/L} (0.345) = 1.10 \text{ mg/L}$   
 $LTA_a = 12.10 \text{ mg/L} (0.093) = 1.12 \text{ mg/L}$

[CV = 3.12, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 3.12, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL =  $1.10 \text{ mg/L} (10.80) = 11.9 \text{ mg/L}$   
AML =  $1.10 \text{ mg/L} (2.04) = 2.2 \text{ mg/L}$

[CV = 3.12, 99<sup>th</sup> Percentile]  
[CV = 3.12, 95<sup>th</sup> Percentile, n =30]

- **Escherichia coli (E. coli).** Monthly average of 126 per 100 mL as a geometric mean and weekly average of 630 per 100 mL as a geometric mean during the recreational season (April 1 – October 31), to protect Whole Body Contact Recreation (A) designated use of the receiving stream, as per 10 CSR 20-7.031(5)(C). An effluent limit for both monthly average and weekly average is required by 40 CFR 122.45(d). The Geometric Mean is calculated by multiplying all of the data points and then taking the nth root of this product, where n = # of samples collected. For example: Five *E. coli* samples were collected with results of 1, 4, 6, 10, and 5 (#/100mL). Geometric Mean = 5<sup>th</sup> root of (1)(4)(6)(10)(5) = 5<sup>th</sup> root of 1,200 = 4.1 #/100mL.
- **pH.** 6.0-9.0 SU. pH limitations [10 CSR 20-7.015] are protective of the water quality standard [10 CSR 20-7.031(5)(E)], due to the buffering capacity of the mixing zone.
- **Oil & Grease.** Effluent limitations of 15 mg/L as a daily maximum and 10 mg/L as a monthly average have been retained from the previous permit. Oil & grease is a conventional pollutant, and effluent limitation will ensure the protection of aquatic life.
- **Total Nitrogen and Total Phosphorus.** Monitoring for total nitrogen and total phosphorus is required for facilities that have a design flow greater than 100,000 gpd per 10 CSR 20-7.015(9)(D)7. Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and nitrate + nitrite and reporting the sum of the results (reported as N). Nitrate + nitrite can be analyzed together or separately.

- **Phenol.** Protection of Aquatic Life Chronic Criteria = 2,560 µg/L, Acute Criteria = 10,200 µg/L.

Chronic WLA:  $C_e = ((9.3 + 0.25)2,560 - (0.25 * 0.0))/9.3$   
 $C_e = 2,566.9 \text{ µg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)10,200 - (0.0025 * 0.0))/9.3$   
 $C_e = 10,202.7 \text{ µg/L}$

$LTA_c = 2,566.9 (0.165) = 424.12 \text{ µg/L}$  [CV = 2.54, 99<sup>th</sup> Percentile]  
 $LTA_a = 10,202.7 (0.101) = 1,030.3 \text{ µg/L}$  [CV = 2.54, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 424.12 (9.90) = 4,200.5 µg/L [CV = 2.54, 99<sup>th</sup> Percentile]  
 AML = 424.12 (3.10) = 1,316.3 µg/L [CV = 2.54, 95<sup>th</sup> Percentile, n = 4]

### **Metals**

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the “Technical Support Document for Water Quality-based Toxic Controls” (EPA/505/2-90-001) and “The Metals Translator: Guidance For Calculating a Total Recoverable Permit Limit from a Dissolved Criterion” (EPA 823-B-96-007). General warm-water fishery criteria apply and a water hardness of 162 mg/L is used in the conversion below.

Due to the absence of contemporaneous effluent and instream data for total recoverable metals, dissolved metals, hardness, and total suspended solids with which to calculate metals translators, partitioning between the dissolved and absorbed phases was assumed to be minimal (Section 5.7.3, EPA/505/2-90-001). Freshwater criteria conversion factors for dissolved metals were used as the metals translator as recommended in guidance (Section 1.3, 1.5.3, and Table 1, EPA 823-B-96-007). If concurrent site-specific data for total recoverable metals, dissolved metals, hardness, and total suspended solids are provided to the Department, partitioning evaluations may be considered and site-specific translators developed.

| METAL        | CONVERSION FACTORS |         |
|--------------|--------------------|---------|
|              | ACUTE              | CHRONIC |
| Cadmium      | 0.924              | 0.889   |
| Chromium III | 0.316              | 0.860   |
| Chromium VI  | N/A                | N/A     |
| Copper       | 0.960              | 0.960   |
| Iron         | N/A                | N/A     |

| METAL    | CONVERSION FACTORS |         |
|----------|--------------------|---------|
|          | ACUTE              | CHRONIC |
| Lead     | 0.721              | 0.721   |
| Mercury  | 0.85               | N/A     |
| Nickel   | 0.998              | 0.997   |
| Selenium | N/A                | N/A     |
| Zinc     | 0.978              | 0.986   |

Conversion factors for Cd and Pb are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 162 mg/L.

- **Cadmium, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 0.3 µg/L, Acute Criteria = 7.6 µg/L.

Chronic =  $0.3/0.889 = 0.39 \text{ µg/L}$   
 Acute =  $7.6/0.924 = 8.23 \text{ µg/L}$

Chronic WLA:  $C_e = ((9.3 + 0.25)0.39 - (0.25 * 0.0))/9.3$   
 $C_e = 0.4 \text{ µg/L}$

Acute WLA:  $C_e = ((9.3 + 0.0025)8.23 - (0.0025 * 0.0))/9.3$   
 $C_e = 8.23 \text{ µg/L}$

$LTA_c = 0.4 (0.597) = 0.23 \text{ µg/L}$  [CV = 0.47, 99<sup>th</sup> Percentile]  
 $LTA_a = 8.23 (0.389) = 3.2 \text{ µg/L}$  [CV = 0.47, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 0.23 (2.57) = 0.6 µg/L [CV = 0.47, 99<sup>th</sup> Percentile]  
 AML = 0.23 (1.43) = 0.3 µg/L [CV = 0.47, 95<sup>th</sup> Percentile, n = 4]

- **Chromium (III), Total Recoverable.** The previous permit included final effluent limitations of 976.2 µg/L as a daily maximum and 389.3 µg/L as a monthly average. Over the previous five years, the permittee has reported non-detects which are less than the water quality standards. It has been determined by the permit writer that at this time no reasonable potential exists for this facility to exceed water quality criteria therefore, monitoring only requirements are included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Chromium (VI), Dissolved.** The previous permit included final effluent limitations of 20.3 µg/L as a daily maximum and 8.1 µg/L as a monthly average. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Copper, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Iron, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 1,000 µg/L.

$$\text{Chronic WLA: } C_e = ((9.3 + 0.25)1,000 - (0.25 * 0.0))/9.3$$

$$C_e = 1,002.69 \text{ µg/L}$$

$$\text{LTA}_c = 1,002.69 (0.340) = 340.92 \text{ µg/L} \quad [\text{CV} = 1.12, 99^{\text{th}} \text{ Percentile}]$$

$$\text{MDL} = 340.92 (5.43) = 1,849.6 \text{ µg/L} \quad [\text{CV} = 1.12, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 340.92 (2.06) = 702.5 \text{ µg/L} \quad [\text{CV} = 1.12, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Lead, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Mercury, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Nickel, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.
- **Selenium, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 5 µg/L.

$$\text{Chronic WLA: } C_e = ((9.3 + 0.25)5 - (0.25 * 0.0))/9.3$$

$$C_e = 5.01 \text{ µg/L}$$

$$\text{LTA}_c = 5.01 (0.259) = 1.3 \text{ µg/L} \quad [\text{CV} = 1.54, 99^{\text{th}} \text{ Percentile}]$$

$$\text{MDL} = 1.3 (7.06) = 9.2 \text{ µg/L} \quad [\text{CV} = 1.54, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 1.3 (2.43) = 3.2 \text{ µg/L} \quad [\text{CV} = 1.54, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Zinc, Total Recoverable.** Monitoring only requirements have been retained from the previous permit. As a result of a reasonable potential analysis, it has been determined that there is no reasonable potential to violate water quality standards. Therefore, it has been determined by the permit writer that monitoring only requirements be included in this permit. Upon renewal, data collected will be reviewed to conduct a reasonable potential analysis in order to reevaluate this determination.

### **Whole Effluent Toxicity**

- **Acute Whole Effluent Toxicity.** Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.

Acute and/or Chronic Allowable Effluent Concentrations (AECs) for facilities that discharge to Waters of the State lacking designated uses, Class C, Class P (with default Mixing Considerations), or Lakes [10 CSR 20-7.031(5)(A)4.B.(IV)(b)] are 100%, 50%, 25%, 12.5%, & 6.25%.

- **Chronic Whole Effluent Toxicity.** Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.

Acute and/or Chronic Allowable Effluent Concentrations (AECs) for facilities that discharge to Waters of the State lacking designated uses, Class C, Class P (with default Mixing Considerations), or Lakes [10 CSR 20-7.031(5)(A)4.B.(IV)(b)] are 100%, 50%, 25%, 12.5%, & 6.25%.

### **Sampling Frequency Justification:**

Sampling and reporting frequency was changed from once/month to once/quarter for total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), and total recoverable selenium and from once/week to twice/month for ammonia. The reduction in sampling for all of the above listed parameters is due to the consistency of the data submitted for each parameter. This determination will be reevaluated during the next renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

**WET Test Sampling Frequency Justification.** WET Testing schedules and intervals are established in accordance with the Department's Permit Manual; Section 5.2 *Effluent Limits / WET Testing for Compliance Bio-monitoring*. It is recommended that WET testing be conducted during the period of lowest stream flow.

### **Acute Whole Effluent Toxicity**

- ☒ - No less than **ONCE/YEAR:**
  - ☒ -Facility is designated as a Major facility or has a design flow  $\geq 1.0$  MGD.
  - ☐ - Facility incorporates a pretreatment program and dilution of the receiving stream is 100x or greater.
  - ☐ - Facility continuously or routinely exceeds their design flow.
  - ☐ -Facility exceeds its design population equivalent (PE) for BOD<sub>5</sub> whether or not its design flow is being exceeded.
  - ☒ -Facility has Water Quality-based effluent limitations for toxic substances (other than NH<sub>3</sub>).

### **Chronic Whole Effluent Toxicity**

- ☒ -No less than **ONCE/PERMIT CYCLE:**
  - ☒ -POTW facilities with a design flow of greater than 1.0 million gallons per day, but less than 10 million gallons per day, shall conduct and submit to the Department a chronic WET test no less than once per five years.

### **Sampling Type Justification:**

As per 10 CSR 20-7.015, BOD<sub>5</sub>, TSS, and WET test samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH, Ammonia as N, *E. coli*, Oil & Grease, and Total Phosphorus. This is due to the holding time restriction for *E. coli*, the volatility of Ammonia, and the fact that pH cannot be preserved and must be sampled in the field. As Ammonia, Oil & Grease, and Total Phosphorus samples must be immediately preserved, these samples are to be collected as a grab.

**OUTFALL #002 (DISCHARGE AT NEOSHO CROWDER WWTP)**

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

For these permitted features, please see; Losing [10 CSR 20-7.015(4)]

**EFFLUENT LIMITATIONS TABLE:**

| PARAMETER        | Unit    | Basis for Limits | Daily Maximum |  | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|------------------|---------|------------------|---------------|--|-----------------|-----------------------|--------------------|---------------------|------------------|
| Total Phosphorus | lbs/day | 8                | 12.51         |  |                 | ***                   | 1/day              | monthly             | G                |

\* - Monitoring requirement only.

\*\*\*\* - G = Grab

\*\*\* - Parameter not previously established in previous state operating permit.

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**OUTFALL #002 – DERIVATION AND DISCUSSION OF LIMITS:**

- **Total Phosphorus.** The Neosho Crowder WWTP discharges to a stream with an EPA approved TMDL. The majority of the time, the Neosho Crowder WWTP does not discharge to the Elk River basin and was therefore not included in the TMDL calculation. During normal flows, the effluent is piped from the Neosho Crowder WWTP to the Neosho Shoal Creek WWTP before being discharged into the Shoal Creek basin. Outfall #002, however, continues to exist in the Elk River basin and may discharge under high flow conditions. The TMDL states that if the City of Neosho chooses to maintain this potential discharge to the Elk River basin, a discharge limitation of 1.5 mg/L as a daily maximum for total phosphorus will be included in the permit. The TMDL also states that the alternative would be for the City of Neosho to eliminate Outfall #002. It has been determined by the permit writer that a load-based effluent limitation is appropriate as the pollutant is total phosphorus and not a toxic pollutant. Therefore, the calculation below derives lbs/day load-based effluent limitations from the concentration based effluent limitation of 1.5 mg/L.

$$1.5 \text{ mg/L} \times 1.0 \text{ MGD} \times 8.34 \text{ lbs/gallon} = 12.51 \text{ lbs/day}$$

The actual average flow from Outfall #002 of 1.0 MGD has been used as discharges from this outfall are intermittent and dependent on the amount of flow coming to the facility. As a result of this calculation, a final effluent limitation of 12.51 lbs/day as a daily maximum has been included in this permit.

**Sampling Frequency Justification:**

Sampling frequency of once/day and reporting frequency of once/month have been established by the permit writer in order to obtain adequate data regarding the amount of total phosphorus that is being discharged during a high flow event. Absent of once/day monitoring, the department would be unable to determine compliance with the load based daily maximum effluent limitation established in the permit. This determination will be reevaluated upon renewal.

**Sampling Type Justification:**

Grab samples must be collected for total phosphorus due to the fact these samples must be immediately preserved.

**Comments:**

- **Dissolved Oxygen.** This facility adds chemicals to dechlorinate the effluent prior to discharge at Outfall #002. Dechlorination chemicals have the potential to reduce dissolved oxygen concentrations in the discharge, resulting in an anoxic discharge, unless carefully controlled. However, Outfall #002 rarely discharges and when a discharge does occur, it is due to high flow events caused by Inflow and Infiltration (I&I). Due to the receiving stream condition and the effluent condition at the time of discharges from Outfall #002, it has been determined by the permit writer that there is no reasonable potential to violate water quality standards for dissolved oxygen and therefore no monitoring requirements have been included in this permit.
- **Whole Effluent Toxicity (WET) test.** The previous permit included requirements to conduct an Acute WET test once every year at the Neosho Crowder WWTP (Outfall #002). However, when a discharge occurs at Outfall #002, it is due to high flow events caused by Inflow and Infiltration (I&I). These discharges have been determined to not be representative of the facility's performance by the permit writer due to dilution of the effluent. Additionally, WET testing should occur during critical low flow scenarios, which will not be the conditions of the receiving stream at the time of a discharge from Outfall #002. During normal flow conditions, the effluent from Outfall #002 is sent to the Neosho Shoal Creek WWTP (Outfall #001) where the effluents combine prior to sample collection for WET test purposes. This means that when the permittee collects a sample at Outfall #001 for WET test requirements, effluent from the Neosho Crowder WWTP, which is representative of normal flow conditions, will be included in the sample for compliance with WET test requirements of Outfall #001. Therefore, it has been determined by the permit writer that WET testing requirements be removed for Outfall #002 in this permit.





**OUTFALL #002 & INTERNAL MONITORING POINT #IP2**

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

For these permitted features, please see; Losing [10 CSR 20-7.015(4)]

**EFFLUENT LIMITATIONS TABLE:**

| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum | Weekly Average | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|-----------------------------------|---------|------------------|---------------|----------------|-----------------|-----------------------|--------------------|---------------------|------------------|
| Flow                              | MGD     | 1                | *             |                | _*              | _*/_*                 | _1/day             | _monthly            | _T               |
| BOD <sub>5</sub>                  | mg/L    | 1                |               | 15             | _10             | _15/10                | _1/week            | monthly             | _C               |
| TSS                               | mg/L    | 1                |               | 20             | _15             | _20/15                | _1/week            | monthly             | _C               |
| Ammonia as N (Apr 1 – Sep 30)     | mg/L    | 2, 3             | 3.6           |                | _1.4            | _3.7/1.4              | 2/month            | monthly             | _G               |
| Ammonia as N (Oct 1 – Mar 31)     | mg/L    | 2, 3             | 7.5           |                | _2.9            | _7.5/2.9              | 2/month            | monthly             | _G               |
| <i>Escherichia coli</i> **        | #/100mL | 1, 3             | 126           |                | _*              | _126/126              | _1/week            | monthly             | _G               |
| Chlorine, Total Residual          | µg/L    | 1, 3             | < 130         |                | _< 130          | _<130/<130            | _1/week            | monthly             | _G               |
| Nitrates as N                     | mg/L    | 7                | *             |                | _*              | _20/10                | _1/month           | _monthly            | _G               |
| PARAMETER                         | Unit    | Basis for Limits | Minimum       |                | Maximum         | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| pH                                | SU      | 1                | 6.5           |                | _9.0            | 6.5-9.0               | _1/week            | monthly             | G                |
| PARAMETER                         | Unit    | Basis for Limits | Daily Maximum |                | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
| Total Hardness                    | mg/L    | 7                | *             |                | _*              | _*/_*                 | _1/quarter         | _quarterly          | _G               |
| Oil & Grease                      | mg/L    | 1, 3             | 15            |                | _10             | _15/10                | _1/quarter         | _quarterly          | _G               |
| Total Nitrogen                    | mg/L    | 1                | *             |                | _*              | _***                  | _1/quarter         | _quarterly          | _G               |
| 1,2-dichloroethane                | µg/L    | 3, 7             | 10.05         |                | 5.00            | 10/5                  | _1/quarter         | _quarterly          | G                |
| 1,1,1-trichloroethane             | µg/L    | 3, 7             | 402.0         |                | _200.0          | _402/200              | _1/quarter         | _quarterly          | G                |
| 1,1,2-trichloroethane             | µg/L    | 3, 7             | 10.05         |                | 5.00            | 10/5                  | _1/quarter         | _quarterly          | G                |
| Cyanide, Amenable to Chlorination | µg/L    | 3, 7             | < 10          |                | _< 10           | _8/4                  | _1/quarter         | _quarterly          | G                |
| Phenol                            | µg/L    | 3, 7             | 201.0         |                | _100.0          | _164/82               | _1/quarter         | _quarterly          | C                |
| Sulfates                          | µg/L    | 3, 7             | 502.5         |                | _250.0          | 503/250               | _1/quarter         | _quarterly          | C                |
| Boron, Total Dissolved            | µg/L    | 3, 7             | 4,020.0       |                | 2,000.0         | 4,000/2,000           | _1/quarter         | _quarterly          | C                |
| Cadmium, Total Recoverable        | µg/L    | 3, 7             | 0.6           |                | _0.3            | _0.6/0.3              | _1/quarter         | _quarterly          | C                |
| Chromium (III), Total Recoverable | µg/L    | 3, 7             | 210.2         |                | _104.8          | 348/174               | _1/quarter         | _quarterly          | C                |
| Chromium (VI), Dissolved          | µg/L    | 3, 7             | 15.0          |                | _7.5            | 16/8                  | _1/quarter         | _quarterly          | G                |
| Copper, Total Recoverable         | µg/L    | 3, 7             | 22.0          |                | _11.0           | _24/12                | _1/quarter         | _quarterly          | C                |
| Iron, Total Recoverable           | µg/L    | 3, 7             | *             |                | _*              | _***                  | _1/quarter         | _quarterly          | C                |
| Lead, Total Recoverable           | µg/L    | 3, 7             | 9.7           |                | 4.8             | _9/5                  | _1/quarter         | _quarterly          | C                |
| Mercury, Total Recoverable        | µg/L    | 3, 7             | 0.8           |                | 0.4             | 0.9/0.5               | _1/quarter         | _quarterly          | C                |
| Nickel, Total Recoverable         | µg/L    | 3, 7             | 128.9         |                | 64.3            | _131/65               | _1/quarter         | _quarterly          | C                |
| Selenium, Total Recoverable       | µg/L    | 3, 7             | *             |                | _*              | _***                  | _1/quarter         | _quarterly          | C                |
| Zinc, Total Recoverable           | µg/L    | 3, 7             | 180.7         |                | 90.1            | 295/147               | _1/quarter         | _quarterly          | C                |

|  |  |  |  |  |  |  |   |   |  |
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|--|--|--|--|--|--|--|---|---|--|

- |     |   |                                                                                                           |      |   |                        |
|-----|---|-----------------------------------------------------------------------------------------------------------|------|---|------------------------|
| _*  | - | Monitoring requirement only.                                                                              | **** | - | .C = 24-hour composite |
| **  | - | No more than 10% of samples over the course of the calendar year shall exceed 126 #/100 mL daily maximum. |      |   | G = Grab               |
| *** | - | Parameter not previously established in previous state operating permit.                                  |      |   | T = 24-hr. total       |

- Basis for Limitations Codes:**
- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**OUTFALL #002 (DISCHARGE AT NEOSHO CROWDER WWTP) & INTERNAL MONITORING POINT #IP2 (EFFLUENT MONITORING LOCATION FOR NEOSHO CROWDER WWTP – GOLF COURSE IRRIGATION STORAGE PONDS) – DERIVATION AND DISCUSSION OF LIMITS:**

- **Flow**. In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>)**. Effluent limitations of 15 mg/L as a weekly average and 10 mg/L as a monthly average, as per [10 CSR 20-7.015] have been retained from previous state operating permit. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Effluent Limits Determination**.
- **Total Suspended Solids (TSS)**. Effluent limitations of 20 mg/L as a weekly average and 15 mg/L as a monthly average, as per [10 CSR 20-7.015] have been retained from previous state operating permit. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Effluent Limits Determination**.
- **Total Ammonia Nitrogen**. Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(5)(B)7.C. & Table B3]. Background total ammonia nitrogen = 0.01 mg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

| Season | Temp (°C) | pH (SU) | Total Ammonia Nitrogen<br>CCC (mg/L) | Total Ammonia Nitrogen<br>CMC (mg/L) |
|--------|-----------|---------|--------------------------------------|--------------------------------------|
| Summer | 26        | 7.8     | 1.5                                  | 12.1                                 |
| Winter | 6         | 7.8     | 3.1                                  | 12.1                                 |

**Summer: April 1 – September 30**

Chronic WLA:  $C_e = ((4.65 + 0.0)1.5 - (0.0 * 0.01))/4.65$   
 $C_e = 1.5 \text{ mg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)12.1 - (0.0 * 0.01))/4.65$   
 $C_e = 12.1 \text{ mg/L}$

$LTA_c = 1.5 \text{ mg/L (0.780)} = 1.17 \text{ mg/L}$   
 $LTA_a = 12.1 \text{ mg/L (0.321)} = 3.89 \text{ mg/L}$

[CV = 0.6, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 1.17 mg/L (3.11) = 3.6 mg/L  
AML = 1.17 mg/L (1.19) = 1.4 mg/L

[CV = 0.6, 99<sup>th</sup> Percentile]  
[CV = 0.6, 95<sup>th</sup> Percentile, n = 30]

**Winter: October 1 – March 31**

Chronic WLA:  $C_e = ((4.65 + 0.0)3.1 - (0.0 * 0.01))/4.65$   
 $C_e = 3.1 \text{ mg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)12.1 - (0.0 * 0.01))/4.65$   
 $C_e = 12.1 \text{ mg/L}$

$LTA_c = 3.1 \text{ mg/L (0.780)} = 2.42 \text{ mg/L}$   
 $LTA_a = 12.1 \text{ mg/L (0.321)} = 3.89 \text{ mg/L}$

[CV = 0.6, 99<sup>th</sup> Percentile, 30 day avg.]  
[CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 2.42 mg/L (3.11) = 7.5 mg/L  
AML = 2.42 mg/L (1.19) = 2.9 mg/L

[CV = 0.6, 99<sup>th</sup> Percentile]  
[CV = 0.6, 95<sup>th</sup> Percentile, n = 30]

- **Escherichia coli (E. coli)**. Discharges to losing streams shall not exceed 126 per 100 mL as a Daily Maximum at any time, as per 10 CSR 20-7.031(5)(C). Monitoring only for a monthly average. No more than 10% of samples over the course of the calendar year shall exceed 126 #/100 mL daily maximum as per 10 CSR 20-7.015(9)(B)1.G.

- **Total Residual Chlorine (TRC).** Warm-water Protection of Aquatic Life CCC = 10 µg/L, CMC = 19 µg/L [10 CSR 20-7.031, Table A]. Background TRC = 0.0 µg/L.

Chronic WLA:  $C_e = ((4.65 + 0.0)10 - (0.0 * 0.0))/4.65$   
 $C_e = 10 \text{ µg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)19 - (0.0 * 0.0))/4.65$   
 $C_e = 19 \text{ µg/L}$

$LTA_c = 10 (0.527) = 5.3 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $LTA_a = 19 (0.321) = 6.1 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

$MDL = 5.3 (3.11) = 17 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $AML = 5.3 (1.55) = 8 \text{ µg/L}$  [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be 17 µg/L (daily maximum limit) and 8 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 µg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/L will be considered to be in compliance with the permit limitation.

- **Nitrates as N.** The previous permit included final effluent limitations of 20 mg/L as a daily maximum and 10 mg/L as a monthly average in order to protect both groundwater and drinking water. After review of discharge monitoring reports over the previous five years, the permit writer made a reasonable potential determination that there is no reasonable potential to exceed the water quality standard for nitrates at this time. However, monitoring only requirements have been included in the permit in order to verify this determination. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality.
- **pH.** 6.5-9.0 SU. pH limitations of 6.0-9.0 SU [10 CSR 20-7.015] are not protective of the in-stream Water Quality Standard, which states that water contaminants shall not cause pH to be outside the range of 6.5-9.0 SU. No mixing zone is allowed due to the classification of the receiving stream, therefore the water quality standard must be met at the outfall.
- **Total Hardness.** The previous permit included monitoring only requirements, which have been retained in this permit. Due to the fact that the receiving stream is designated as losing and is effluent dominated, it has been determined by the permit writer that monitoring of the effluent for total hardness as opposed to monitoring in the receiving stream is appropriate and representative. Data collected will be used to establish a site-specific hardness value which may be used in effluent limitations derivation calculations for hardness dependent metals.
- **Oil & Grease.** Effluent limitations of 15 mg/L as a daily maximum and 10 mg/L as a monthly average have been retained from the previous permit. Oil & grease is a conventional pollutant, and effluent limitation will ensure the protection of aquatic life.
- **Total Nitrogen.** Monitoring for total nitrogen is required for facilities that have a design flow greater than 100,000 gpd per 10 CSR 20-7.015(9)(D)7. Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and nitrate + nitrite and reporting the sum of the results (reported as N). Nitrate + nitrite can be analyzed together or separately.

- **1,2-dichloroethane**. The previous permit included final effluent limitations of 10 µg/L as a daily maximum and 5 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Human Health Protection – Fish Consumption (HHP) Chronic Criteria = 99 µg/L, Protection of Drinking Water Supply (DWS) and Groundwater (GRW) Chronic Criteria = 5 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 5.0 µg/L

MDL = 5.0 (2.01) = 10.05 µg/L

[CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]

AML = WLA = 5.0 µg/L

[TSD, EPA/505/2-90-001, Section 5.4.4]

- **1,1,1-trichloroethane**. The previous permit included final effluent limitations of 402 µg/L as a daily maximum and 200 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Drinking Water Supply (DWS) and Groundwater (GRW) Chronic Criteria = 200 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 200.0 µg/L

MDL = 200.0 (2.01) = 402.0 µg/L

[CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]

AML = WLA = 200.0 µg/L

[TSD, EPA/505/2-90-001, Section 5.4.4]

- **1,1,2-trichloroethane**. The previous permit included final effluent limitations of 10 µg/L as a daily maximum and 5 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Human Health Protection – Fish Consumption (HHP) Chronic Criteria = 42 µg/L, Protection of Drinking Water Supply (DWS) and Groundwater (GRW) Chronic Criteria = 5 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 5.0 µg/L

MDL = 5.0 (2.01) = 10.05 µg/L

[CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]

AML = WLA = 5.0 µg/L

[TSD, EPA/505/2-90-001, Section 5.4.4]



- **Cyanide, Amenable to Chlorination.** Protection of Aquatic Life CCC = 5 µg/L, CMC = 22 µg/L, Background CN = 0 µg/L

Chronic WLA:  $C_e = ((4.65 + 0.0)5 - (0.0 * 0.0))/4.65$   
 $C_e = 5 \text{ µg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)22 - (0.0 * 0.0))/4.65$   
 $C_e = 22 \text{ µg/L}$

$LTA_c = 5 (0.527) = 2.6 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $LTA_a = 22 (0.321) = 7.1 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

$MDL = 2.6 (3.11) = 8.2 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $AML = 2.6 (1.55) = 4.1 \text{ µg/L}$  [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

The Water Quality Based Effluent Limit for Cyanide amenable to chlorination was calculated to be 8.2 µg/L (daily maximum limit) and 4.1 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved Cyanide amenable to chlorination methods. The Department has determined the current acceptable ML of Cyanide Amenable to Chlorination (CATC) to be 10 µg/L when using SM 4500-CN<sup>-</sup>G. Cyanides Amenable to Chlorination after Distillation in Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup>. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 10 µg/L will be considered violations of the permit and values less than the minimum quantification level of 10 µg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of cyanide in excess of the effluent limits stated in the permit.

- **Phenol.** The previous permit included final effluent limitations of 164 µg/L as a daily maximum and 82 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Aquatic Life (AQL) Chronic Criteria = 2,560 µg/L, Acute Criteria = 10,200 µg/L, Protection of Drinking Water Supply (DWS) Chronic Criteria = 100 µg/L, and Protection of Groundwater (GRW) Chronic Criteria = 300 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 100.0 µg/L

$MDL = 100.0 (2.01) = 201.0 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
 $AML = WLA = 100.0 \text{ µg/L}$  [TSD, EPA/505/2-90-001, Section 5.4.4]

- **Sulfates.** The previous permit included final effluent limitations of 503 µg/L as a daily maximum and 250 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Drinking Water Supply (DWS) Chronic Criteria = 250 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 250.0 µg/L

$MDL = 250.0 (2.01) = 502.5 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
 $AML = WLA = 250.0 \text{ µg/L}$  [TSD, EPA/505/2-90-001, Section 5.4.4]

### Metals.

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the “Technical Support Document for Water Quality-based Toxic Controls” (EPA/505/2-90-001) and “The Metals Translator: Guidance For Calculating a Total Recoverable Permit Limit from a Dissolved Criterion” (EPA 823-B-96-007). General warm-water fishery criteria apply and a water hardness of 162 mg/L is used in the conversion below.

Due to the absence of contemporaneous effluent and instream data for total recoverable metals, dissolved metals, hardness, and total suspended solids with which to calculate metals translators, partitioning between the dissolved and absorbed phases was assumed to be minimal (Section 5.7.3, EPA/505/2-90-001). Freshwater criteria conversion factors for dissolved metals were used as the metals translator as recommended in guidance (Section 1.3, 1.5.3, and Table 1, EPA 823-B-96-007). If concurrent site-specific data for total recoverable metals, dissolved metals, hardness, and total suspended solids are provided to the Department, partitioning evaluations may be considered and site-specific translators developed.

| METAL        | CONVERSION FACTORS |         |
|--------------|--------------------|---------|
|              | ACUTE              | CHRONIC |
| Boron        | N/A                | N/A     |
| Cadmium      | 0.924              | 0.889   |
| Chromium III | 0.316              | 0.860   |
| Chromium VI  | N/A                | N/A     |
| Copper       | 0.960              | 0.960   |
| Iron         | N/A                | N/A     |

| METAL    | CONVERSION FACTORS |         |
|----------|--------------------|---------|
|          | ACUTE              | CHRONIC |
| Lead     | 0.721              | 0.721   |
| Mercury  | 0.85               | N/A     |
| Nickel   | 0.998              | 0.997   |
| Selenium | N/A                | N/A     |
| Zinc     | 0.978              | 0.986   |

Conversion factors for Cd and Pb are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 162 mg/L.

- **Boron, Total Dissolved.** The previous permit included final effluent limitations of 4,000 µg/L as a daily maximum and 2,000 µg/L as a monthly average. Over the previous five years, due to the lack of discharge, the permit writer does not have sufficient data to make a reasonable potential determination to either replace the effluent limitations with a monitoring only requirement or to remove the parameter requirements entirely. Therefore, it has been determined by the permit writer that the effluent limitations are still appropriate. The permit writer has developed final effluent limitations following the EPA Technical Support Document for Water Quality-based Toxics Control (TSD, EPA/505/2-90-001).

Protection of Irrigation (IRR) Chronic Criteria = 2,000 µg/L and Protection of Groundwater (GRW) Chronic Criteria = 2,000 µg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

Chronic WLA = 2,000.0 µg/L

MDL = 2,000.0 (2.01) = 4,020.0 µg/L  
AML = WLA = 2,000.0 µg/L

[CV = 0.6, 99<sup>th</sup> Percentile – TSD, EPA/505/2-90-001, Table 5-3]  
[TSD, EPA/505/2-90-001, Section 5.4.4]

- **Cadmium, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 0.3 µg/L, Acute Criteria = 7.6 µg/L.

Chronic = 0.3/0.889 = 0.39 µg/L  
Acute = 7.6/0.924 = 8.23 µg/L

Chronic WLA:  $C_e = ((4.65 + 0.0)0.39 - (0.0 * 0.0))/4.65$   
 $C_e = 0.39 \mu\text{g/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)8.23 - (0.0 * 0.0))/4.65$   
 $C_e = 8.23 \mu\text{g/L}$

$LTA_c = 0.39 (0.527) = 0.20 \mu\text{g/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]  
 $LTA_a = 8.23 (0.321) = 2.64 \mu\text{g/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL = 0.20 (3.11) = 0.6 µg/L [CV = 0.6, 99<sup>th</sup> Percentile]  
AML = 0.20 (1.55) = 0.3 µg/L [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

- **Chromium (III), Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 110 µg/L, Acute Criteria = 846 µg/L.

$$\text{Chronic} = 110/0.860 = 127.96 \text{ µg/L}$$

$$\text{Acute} = 846/0.316 = 2,676.88 \text{ µg/L}$$

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)127.96 - (0.0 * 0.0))/4.65$$

$$C_e = 127.96 \text{ µg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)2,676.88 - (0.0 * 0.0))/4.65$$

$$C_e = 2,676.88 \text{ µg/L}$$

$$\text{LTA}_c = 127.96 (0.527) = 67.49 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 2,676.88 (0.321) = 859.50 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 67.49 (3.11) = 210.2 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 67.49 (1.55) = 104.8 \text{ µg/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Chromium (VI), Dissolved.** Protection of Aquatic Life Chronic Criteria = 10.0 µg/L, Acute Criteria = 15.0 µg/L.

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)10.0 - (0.0 * 0.0))/4.65$$

$$C_e = 10.0 \text{ µg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)15.0 - (0.0 * 0.0))/4.65$$

$$C_e = 15.0 \text{ µg/L}$$

$$\text{LTA}_c = 10.0 (0.527) = 5.27 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 15.0 (0.321) = 4.82 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 4.82 (3.11) = 15.0 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 4.82 (1.55) = 7.5 \text{ µg/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Copper, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 13.5 µg/L, Acute Criteria = 21.1 µg/L.

$$\text{Chronic} = 13.5/0.960 = 14.09 \text{ µg/L}$$

$$\text{Acute} = 21.1/0.960 = 22.05 \text{ µg/L}$$

$$\text{Chronic WLA: } C_e = ((4.65 + 0.0)14.09 - (0.0 * 0.0))/4.65$$

$$C_e = 14.09 \text{ µg/L}$$

$$\text{Acute WLA: } C_e = ((4.65 + 0.0)22.05 - (0.0 * 0.0))/4.65$$

$$C_e = 22.05 \text{ µg/L}$$

$$\text{LTA}_c = 14.09 (0.527) = 7.43 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{LTA}_a = 22.05 (0.321) = 7.08 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

Use most protective number of  $\text{LTA}_c$  or  $\text{LTA}_a$ .

$$\text{MDL} = 7.08 (3.11) = 22.0 \text{ µg/L} \quad [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 7.08 (1.55) = 11.0 \text{ µg/L} \quad [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]$$

- **Iron, Total Recoverable.** Monitoring only requirements have been added to this permit in order to determine if the facility has a reasonable potential to cause a violation of water quality standards in the receiving stream. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality. The protection of Aquatic Life Chronic Criteria = 1,000 µg/L. This is listed so the permittee may test sensitive enough to demonstrate the facility is discharging below the criteria.

- **Lead, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 4.2 µg/L, Acute Criteria = 109 µg/L.

$$\begin{aligned}\text{Chronic} &= 4.2/0.721 = 5.88 \text{ µg/L} \\ \text{Acute} &= 109/0.721 = 150.82 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{Chronic WLA: } C_e &= ((4.65 + 0.0)5.88 - (0.0 * 0.0))/4.65 \\ C_e &= 5.88 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{Acute WLA: } C_e &= ((4.65 + 0.0)150.82 - (0.0 * 0.0))/4.65 \\ C_e &= 150.82 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{LTA}_c &= 5.88 (0.527) = 3.10 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}] \\ \text{LTA}_a &= 150.82 (0.321) = 48.42 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]\end{aligned}$$

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

$$\begin{aligned}\text{MDL} &= 3.10 (3.11) = 9.7 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}] \\ \text{AML} &= 3.10 (1.55) = 4.8 \text{ µg/L} & [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]\end{aligned}$$

- **Mercury, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 0.5 µg/L, Acute Criteria = 2.4 µg/L.

$$\text{Acute} = 2.4/0.85 = 2.82 \text{ µg/L}$$

$$\begin{aligned}\text{Chronic WLA: } C_e &= ((4.65 + 0.0)0.5 - (0.0 * 0.0))/4.65 \\ C_e &= 0.5 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{Acute WLA: } C_e &= ((4.65 + 0.0)2.82 - (0.0 * 0.0))/4.65 \\ C_e &= 2.82 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{LTA}_c &= 0.5 (0.527) = 0.26 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}] \\ \text{LTA}_a &= 2.82 (0.321) = 0.91 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]\end{aligned}$$

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

$$\begin{aligned}\text{MDL} &= 0.26 (3.11) = 0.8 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}] \\ \text{AML} &= 0.26 (1.55) = 0.4 \text{ µg/L} & [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]\end{aligned}$$

- **Nickel, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 78.3 µg/L, Acute Criteria = 705 µg/L.

$$\begin{aligned}\text{Chronic} &= 78.3/0.997 = 78.50 \text{ µg/L} \\ \text{Acute} &= 705/0.998 = 706.10 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{Chronic WLA: } C_e &= ((4.65 + 0.0)78.50 - (0.0 * 0.0))/4.65 \\ C_e &= 78.50 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{Acute WLA: } C_e &= ((4.65 + 0.0)706.10 - (0.0 * 0.0))/4.65 \\ C_e &= 706.10 \text{ µg/L}\end{aligned}$$

$$\begin{aligned}\text{LTA}_c &= 78.50 (0.527) = 41.40 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}] \\ \text{LTA}_a &= 706.10 (0.321) = 226.72 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]\end{aligned}$$

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

$$\begin{aligned}\text{MDL} &= 41.40 (3.11) = 128.9 \text{ µg/L} & [\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}] \\ \text{AML} &= 41.40 (1.55) = 64.3 \text{ µg/L} & [\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile, } n = 4]\end{aligned}$$

- **Selenium, Total Recoverable.** Monitoring only requirements have been added to this permit in order to determine if the facility has a reasonable potential to cause a violation of water quality standards in the receiving stream. Data collected will be reviewed upon renewal to determine if an effluent limitation is necessary to protect water quality. The protection of Aquatic Life Chronic Criteria = 5 µg/L. This is listed so the permittee may test sensitive enough to demonstrate the facility is discharging below the criteria.

- **Zinc, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 176.71 µg/L, Acute Criteria = 176.71 µg/L.

Chronic =  $176.71/0.986 = 179.22 \text{ µg/L}$

Acute =  $176.71/0.978 = 180.69 \text{ µg/L}$

Chronic WLA:  $C_e = ((4.65 + 0.0)179.22 - (0.0 * 0.0))/4.65$   
 $C_e = 179.22 \text{ µg/L}$

Acute WLA:  $C_e = ((4.65 + 0.0)180.69 - (0.0 * 0.0))/4.65$   
 $C_e = 180.69 \text{ µg/L}$

$LTA_c = 179.22 (0.527) = 94.53 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

$LTA_a = 180.69 (0.321) = 58.02 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

Use most protective number of  $LTA_c$  or  $LTA_a$ .

MDL =  $58.02 (3.11) = 180.7 \text{ µg/L}$  [CV = 0.6, 99<sup>th</sup> Percentile]

AML =  $58.02 (1.55) = 90.1 \text{ µg/L}$  [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

#### **Sampling Frequency Justification:**

Sampling and reporting frequency was changed from once/week to twice/month for ammonia and nitrates, from once/week to once/quarter for total hardness, oil & grease, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, cyanide amenable to chlorination, phenol, sulfates, total dissolved boron, total recoverable cadmium, total recoverable chromium (III), dissolved chromium (VI), total recoverable copper, total recoverable lead, total recoverable mercury, total recoverable nickel, and total recoverable zinc. These changes in sampling and reporting frequency are due to the infrequency of the discharge at these locations along with the determination made by the permit writer that the effluent concentrations for the above listed parameters consistency of the discharges. This determination will be reevaluated upon renewal. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)6.A.

#### **Sampling Type Justification:**

As per 10 CSR 20-7.015, BOD<sub>5</sub>, TSS, and WET test samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH, Ammonia as N, *E. coli*, TRC, Oil & Grease, and Total Phosphorus. This is due to the holding time restriction for *E. coli*, the volatility of Ammonia and TRC, and the fact that pH cannot be preserved and must be sampled in the field. As Ammonia, Oil & Grease, and Total Phosphorus samples must be immediately preserved, these samples are to be collected as a grab.

#### **Comments:**

- **Monitoring Requirements.** This permit includes both individual and combined requirements for Outfall #002 and Internal Monitoring Point #IP2, as all effluent limitations and monitoring requirements for these permitted features are identical except for total phosphorus. Outfall #002 has been granted a schedule of compliance to meet final effluent limitations for total phosphorus whereas Internal Monitoring Point #IP2 is only required to monitor for total phosphorus. In order to demonstrate this, the permit writer has created Tables A-5 and A-6 for Outfall #002 and Table A-7 for Internal Monitoring Point #IP2 as it relates to total phosphorus. All other requirements for Outfall #002 and Internal Monitoring Point #IP2 can be found on Tables A-8, A-9, and A-10. Although the two permitted features are included in Tables A-8, A-9, and A-10 together, the requirements identified in these tables apply to the two permitted features separately. This means that if a discharge occurs from both Outfall #002 and Internal Monitoring Point #IP2, the facility will be required to sample and report effluent results from both permitted feature locations. Sample results are not to be averaged between the different permitted features.
- **Expanded Effluent Testing.** It has been determined by the permit writer that expanded effluent testing requirements of the renewal application are not required for Outfall #002 or Internal Monitoring Point #IP2. Expanded effluent testing allows the permit writer to make decisions regarding potential effluent limitation or monitoring requirements, which will not be a result of this sampling at Outfall #002 or Internal Monitoring Point #IP2. Discharges from Outfall #002 historically are rare in frequency and occur during high flow events due to Inflow and Infiltration (I&I) into the collection system. As a result, samples taken from Outfall #002 would not be representative of the seasonal variation in the discharge since they will occur during the same stream and effluent conditions. Expanded effluent testing is required by the application for renewal at Outfall #001, which will include effluent from both wastewater plants and will allow for the permittee to collect samples representative of seasonal variation.

### INTERNAL MONITORING POINT #IP3 (TBEL MONITORING LOCATION FOR NEOSHO CROWDER WWTP)

#### EFFLUENT LIMITATIONS TABLE:

| PARAMETER                        | Unit | Basis for Limits | Daily Maximum           | Weekly Average | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|----------------------------------|------|------------------|-------------------------|----------------|-----------------|-----------------------|--------------------|---------------------|------------------|
| Flow                             | MGD  | 1                | *                       |                | .*              | .*/**                 | 1/day              | monthly             | T                |
| BOD <sub>5</sub>                 | mg/L | 1                |                         | 65             | 45              | ***                   | 1/week             | monthly             | C                |
| TSS                              | mg/L | 1                |                         | 65             | 45              | ***                   | 1/week             | monthly             | C                |
| PARAMETER                        | Unit | Basis for Limits | Minimum                 |                | Maximum         | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| pH                               | SU   | 1                | 6.0                     |                | 9.0             | 6.5-9.0               | 1/week             | monthly             | G                |
| PARAMETER                        | Unit | Basis for Limits | Monthly Average Minimum |                |                 | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| BOD <sub>5</sub> Percent Removal | %    | 1                | .65                     |                |                 | .65                   | 1/month            | monthly             | M                |
| TSS Percent Removal              | %    | 1                | .65                     |                |                 | .65                   | 1/month            | monthly             | M                |

\* - Monitoring requirement only.

\*\*\* - Parameter not previously established in previous state operating permit.

\*\*\*\* - C = 24-hour composite

G = Grab

T = 24-hr. total

M = Measured/Calculated

#### **Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

#### INTERNAL MONITORING POINT #IP3 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>).** Technology based effluent limitations [10 CSR 20-7.015] of 65 mg/L as a weekly average and 45 mg/L as a monthly average have been included in the permit due to the fact that effluent at this location is from the Neosho Crowder WWTP, which is a trickling filter.
- **Total Suspended Solids (TSS).** Technology based effluent limitations [10 CSR 20-7.015] of 65 mg/L as a weekly average and 45 mg/L as a monthly average have been included in the permit due to the fact that effluent at this location is from the Neosho Crowder WWTP, which is a trickling filter.
- **pH.** 6.0-9.0 SU. pH limitations of 6.0-9.0 SU [10 CSR 20-7.015] are required at this location in order to demonstrate that the Neosho Crowder WWTP is meeting the requirements of 10 CSR 20-7.015 prior to the mixing of effluents from Neosho Crowder WWTP and Neosho Shoal Creek WWTP.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>) Percent Removal.** In accordance with 40 CFR Part 133.102(a)(3) & (b)(3), removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 65% removal efficiency for BOD<sub>5</sub>.
- **Total Suspended Solids (TSS) Percent Removal.** In accordance with 40 CFR Part 133.105(a)(3) & (b)(3), removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 65% removal efficiency for TSS.

#### Sampling Frequency Justification:

Sampling and reporting frequency has been established to match the sampling frequency in the previous permit.

#### Sampling Type Justification:

As per 10 CSR 20-7.015, BOD<sub>5</sub> and TSS samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH. This is due to the fact that pH cannot be preserved and must be sampled in the field.



**INTERNAL MONITORING POINT #IP5 (TBEL MONITORING LOCATION FOR NEOSHO SHOAL CREEK WWTP)**

**EFFLUENT LIMITATIONS TABLE:**

| PARAMETER                        | Unit | Basis for Limits | Daily Maximum           | Weekly Average | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|----------------------------------|------|------------------|-------------------------|----------------|-----------------|-----------------------|--------------------|---------------------|------------------|
| Flow                             | MGD  | 1                | *                       |                | .*              | ./                    | 1/day              | monthly             | T                |
| BOD <sub>5</sub>                 | mg/L | 1                |                         | 45             | 30              | ***                   | 1/week             | monthly             | C                |
| TSS                              | mg/L | 1                |                         | 45             | 30              | ***                   | 1/week             | monthly             | C                |
| PARAMETER                        | Unit | Basis for Limits | Minimum                 |                | Maximum         | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| pH                               | SU   | 1                | 6.0                     |                | 9.0             | 6.5-9.0               | 1/week             | monthly             | G                |
| PARAMETER                        | Unit | Basis for Limits | Monthly Average Minimum |                |                 | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type      |
| BOD <sub>5</sub> Percent Removal | %    | 1                | .85                     |                |                 | .85                   | 1/month            | monthly             | M                |
| TSS Percent Removal              | %    | 1                | .85                     |                |                 | .85                   | 1/month            | monthly             | M                |

\* - Monitoring requirement only.

\*\*\* - Parameter not previously established in previous state operating permit.

\*\*\*\* - C = 24-hour composite

G = Grab

T = 24-hr. total

M = Measured/Calculated

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**INTERNAL MONITORING POINT #IP5 – DERIVATION AND DISCUSSION OF LIMITS:**

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>).** Technology based effluent limitations [10 CSR 20-7.015] of 45 mg/L as a weekly average and 30 mg/L as a monthly average have been included in the permit due to the fact that effluent at this location is from the Neosho Shoal Creek WWTP.
- **Total Suspended Solids (TSS).** Technology based effluent limitations [10 CSR 20-7.015] of 45 mg/L as a weekly average and 30 mg/L as a monthly average have been included in the permit due to the fact that effluent at this location is from the Neosho Shoal Creek WWTP.
- **pH.** 6.0-9.0 SU. pH limitations of 6.0-9.0 SU [10 CSR 20-7.015] are required at this location in order to demonstrate that the Neosho Shoal Creek WWTP is meeting the requirements of 10 CSR 20-7.015 prior to the mixing of effluents from Neosho Crowder WWTP and Neosho Shoal Creek WWTP.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>) Percent Removal.** In accordance with 40 CFR Part 133.102(a)(3) & (b)(3), removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 85% removal efficiency for BOD<sub>5</sub>.
- **Total Suspended Solids (TSS) Percent Removal.** In accordance with 40 CFR Part 133.105(a)(3) & (b)(3), removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 85% removal efficiency for TSS.

**Sampling Frequency Justification:**

Sampling and reporting frequency has been established to match the sampling frequency in the previous permit.

**Sampling Type Justification:**

As per 10 CSR 20-7.015, BOD<sub>5</sub> and TSS samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH. This is due to the fact that pH cannot be preserved and must be sampled in the field.

**PERMITTED FEATURE #SM1 – INSTREAM MONITORING (UPSTREAM)**

**MONITORING REQUIREMENTS TABLE:**

| PARAMETER        | Unit | Basis for Limits | Daily Maximum |  | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|------------------|------|------------------|---------------|--|-----------------|-----------------------|--------------------|---------------------|------------------|
| Total Nitrogen   | mg/L | 7                | *             |  | _*              | _****                 | _quarterl<br>y     | _quarterl<br>y      | _G               |
| Total Phosphorus | mg/L | 7                | *             |  | _*              | _****                 | _quarterl<br>y     | quarterly           | _G               |

\_\* - Monitoring requirement only.      \_\*\*\*\* - G = Grab  
\_\*\*\* - Parameter not previously established in previous state operating permit.

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**PERMITTED FEATURE #SM1 – DERIVATION AND DISCUSSION OF MONITORING REQUIREMENTS:**

- Total Nitrogen and Total Phosphorus.** Facilities with a design flow greater than 100,000 gallons per day are required to sample their effluent quarterly for total nitrogen and total phosphorus per 10 CSR 20-7.015(9)(D)7. Upstream monitoring for these parameters is necessary to determine background stream concentrations in order to complete calculations that determine instream nutrient loading.

**Sampling Frequency Justification:**

Sampling and reporting frequency for total nitrogen and total phosphorus has been established to match the required sampling frequency of these parameters in the effluent.

**Sampling Type Justification**

As total nitrogen and total phosphorus samples must be immediately preserved; these samples are to be collected as a grab.

**PERMITTED FEATURE #SM2 – INSTREAM MONITORING (DOWNSTREAM)**

**MONITORING REQUIREMENTS TABLE:**

| PARAMETER      | Unit | Basis for Limits | Daily Maximum |  | Monthly Average | Previous Permit Limit | Sampling Frequency | Reporting Frequency | Sample Type **** |
|----------------|------|------------------|---------------|--|-----------------|-----------------------|--------------------|---------------------|------------------|
| Total Hardness | mg/L | 1, 3             | *             |  | _*              | _****                 | _quarterl<br>y     | _quarterl<br>y      | _G               |

\_\* - Monitoring requirement only.      \_\*\*\*\* - G = Grab  
\_\*\*\* - Parameter not previously established in previous state operating permit.

**Basis for Limitations Codes:**

- |                                          |                           |                                   |                                  |
|------------------------------------------|---------------------------|-----------------------------------|----------------------------------|
| 1. State or Federal Regulation/Law       | 4. Antidegradation Review | 7. Best Professional Judgment     | 10. Multiple Discharger Variance |
| 2. Water Quality Standard (includes RPA) | 5. Antidegradation Policy | 8. TMDL or Permit in lieu of TMDL |                                  |
| 3. Water Quality Based Effluent Limits   | 6. Water Quality Model    | 9. WET Test Policy                |                                  |

**PERMITTED FEATURE #SM2 – DERIVATION AND DISCUSSION OF MONITORING REQUIREMENTS:**

- Total Hardness.** Data collected will be used to establish a site-specific hardness value which may be used in effluent limitations derivation calculations for hardness dependent metals.

**Sampling Frequency Justification:**

Sampling and reporting frequency for total hardness has been established to match the required sampling frequency of the metals parameters in the effluent.

**Sampling Type Justification**

As total hardness samples must be immediately preserved; these samples are to be collected as a grab.

## **Part VIII – Cost Analysis for Compliance**

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a “finding of affordability” on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

☒ - The Department is required to determine “findings of affordability” because the permit applies to a combined or separate sanitary sewer system for a publically-owned treatment works.

**Cost Analysis for Compliance** - The Department has made a reasonable search for empirical data indicating the permit is affordable. The search consisted of a review of Department records that might contain economic data on the community, a review of information provided by the applicant as part of the application, and public comments received in response to public notices of this draft permit. If the empirical cost data was used by the permit writer, this data may consist of median household income, any other ongoing projects that the Department has knowledge, and other demographic financial information that the community provided as contemplated by Section 644. 145.3. See **Appendix – Cost Analysis for Compliance**.

## **Part IX – Administrative Requirements**

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

### **PERMIT SYNCHRONIZATION:**

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than 4 years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit. With permit synchronization, this permit will expire in the 4<sup>th</sup> Quarter of calendar year 2017. If the department issues the permit at this time, the effective period of the permit would be less than one year in length. To ensure efficient use of department staff, reduce the department’s permitting back log and to provide better service to the permittee by avoiding another renewal application to be submitted in such a short time period this operating permit will be issued for the maximum timeframe of five years and synched with other permits in the watershed at a later date.

**PUBLIC NOTICE:**

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing. The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit. For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

☐ - The Public Notice period for this operating permit was from February 10, 2017 to March 13, 2017. No responses received.

**DATE OF FACT SHEET:** SEPTEMBER 27, 2016

**REVISED:** JANUARY 18, 2017

**COMPLETED BY:**

**CAMERON EISTERHOLD, ENVIRONMENTAL SPECIALIST  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT  
(573) 751-7326  
cameron.eisterhold@dnr.mo.gov**

## Appendices

### APPENDIX - CLASSIFICATION WORKSHEET:

| ITEM                                                                                                              | POINTS POSSIBLE                            | POINTS ASSIGNED |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------|
| Maximum Population Equivalent (P.E.) served (Max 10 pts.)                                                         | 1 pt./10,000 PE or major fraction thereof. | 6               |
| Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)                                    | 1 pt. / MGD or major fraction thereof.     | 6               |
| EFFLUENT DISCHARGE RECEIVING WATER SENSITIVITY:                                                                   |                                            |                 |
| Missouri or Mississippi River                                                                                     | 0                                          | -               |
| All other stream discharges except to losing streams and stream reaches supporting whole body contact             | 1                                          | -               |
| Discharge to lake or reservoir outside of designated whole body contact recreational area                         | 2                                          | -               |
| Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation            | 3                                          | 3               |
| PRELIMINARY TREATMENT – Headworks                                                                                 |                                            |                 |
| Screening and/or comminution                                                                                      | 3                                          | 3               |
| Grit removal                                                                                                      | 3                                          | -               |
| Plant pumping of main flow (lift station at the headworks)                                                        | 3                                          | -               |
| PRIMARY TREATMENT                                                                                                 |                                            |                 |
| Primary clarifiers                                                                                                | 5                                          | 5               |
| Combined sedimentation/digestion                                                                                  | 5                                          | -               |
| Chemical addition (except chlorine, enzymes)                                                                      | 4                                          | -               |
| REQUIRED LABORATORY CONTROL – performed by plant personnel (highest level only)                                   |                                            |                 |
| Push – button or visual methods for simple test such as pH, Settleable solids                                     | 3                                          | -               |
| Additional procedures such as DO, COD, BOD, titrations, solids, volatile content                                  | 5                                          | 5               |
| More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc. | 7                                          | -               |
| Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph                             | 10                                         | -               |
| ALTERNATIVE FATE OF EFFLUENT                                                                                      |                                            |                 |
| Direct reuse or recycle of effluent                                                                               | 6                                          | -               |
| Land Disposal – low rate                                                                                          | 3                                          | 3               |
| High rate                                                                                                         | 5                                          | -               |
| Overland flow                                                                                                     | 4                                          | -               |
| Total from page <b>ONE (1)</b>                                                                                    | ----                                       | 31              |

**APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):**

| ITEM                                                                                             | POINTS POSSIBLE | POINTS ASSIGNED |
|--------------------------------------------------------------------------------------------------|-----------------|-----------------|
| <b>VARIATION IN RAW WASTE (highest level only) (DMR exceedances and Design Flow exceedances)</b> |                 |                 |
| Variation do not exceed those normally or typically expected                                     | 0               | 0               |
| Recurring deviations or excessive variations of 100 to 200 % in strength and/or flow             | 2               | -               |
| Recurring deviations or excessive variations of more than 200 % in strength and/or flow          | 4               | -               |
| Raw wastes subject to toxic waste discharge                                                      | 6               | -               |
| <b>SECONDARY TREATMENT</b>                                                                       |                 |                 |
| Trickling filter and other fixed film media with secondary clarifiers                            | 10              | 10              |
| Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)   | 15              | 15              |
| Stabilization ponds without aeration                                                             | 5               | -               |
| Aerated lagoon                                                                                   | 8               | -               |
| Advanced Waste Treatment Polishing Pond                                                          | 2               | -               |
| Chemical/physical – without secondary                                                            | 15              | -               |
| Chemical/physical – following secondary                                                          | 10              | -               |
| Biological or chemical/biological                                                                | 12              | -               |
| Carbon regeneration                                                                              | 4               | -               |
| <b>DISINFECTION</b>                                                                              |                 |                 |
| Chlorination or comparable                                                                       | 5               | 5               |
| Dechlorination                                                                                   | 2               | 2               |
| On-site generation of disinfectant (except UV light)                                             | 5               | -               |
| UV light                                                                                         | 4               | 4               |
| <b>SOLIDS HANDLING – SLUDGE</b>                                                                  |                 |                 |
| Solids Handling Thickening                                                                       | 5               | 5               |
| Anaerobic digestion                                                                              | 10              | -               |
| Aerobic digestion                                                                                | 6               | 6               |
| Evaporative sludge drying                                                                        | 2               | 2               |
| Mechanical dewatering                                                                            | 8               | -               |
| Solids reduction (incineration, wet oxidation)                                                   | 12              | -               |
| Land application                                                                                 | 6               | 6               |
| Total from page <b>TWO (2)</b>                                                                   | ----            | 55              |
| Total from page <b>ONE (1)</b>                                                                   | ---             | 31              |
| Grand Total                                                                                      | ---             | 86              |

- ☒ - A: 71 points and greater  
☐ - B: 51 points – 70 points  
☐ - C: 26 points – 50 points  
☐ - D: 0 points – 25 points



**APPENDIX – RPA RESULTS:**

**OUTFALL #001**

| Parameter                               | CMC*                                                                                                                         | RWC<br>Acute* | CCC*   | RWC<br>Chronic* | n**   | Range<br>max/min | CV*** | MF    | RP<br>Yes/No |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------|--------|-----------------|-------|------------------|-------|-------|--------------|
| Total Ammonia as Nitrogen (Summer) mg/L | 12.1                                                                                                                         | 120.45        | 1.5    | 117.33          | 27.00 | 21.9/0.027       | 2.30  | 5.50  | YES          |
| Total Ammonia as Nitrogen (Winter) mg/L | 12.1                                                                                                                         | 123.43        | 3.1    | 120.23          | 28.00 | 22.3/0.025       | 3.01  | 5.54  | YES          |
| Cadmium, Total Recoverable              | 8.2                                                                                                                          | 4.30          | 0.4    | 4.29            | 19.00 | 3.4/0.25         | 0.47  | 1.26  | YES          |
| Chromium (III), Total Recoverable       | <i>Over the previous five years, the permittee has reported non-detects which are less than the water quality standards.</i> |               |        |                 |       |                  |       |       |              |
| Chromium (VI), Dissolved                | 15.0                                                                                                                         | 6.11          | 10.0   | 6.10            | 19.00 | 5/0.005          | 0.40  | 1.22  | NO           |
| Copper, Total Recoverable               | 22.0                                                                                                                         | 11.30         | 14.1   | 11.27           | 17.00 | 7.2/0.5          | 0.39  | 1.57  | NO           |
| Iron, Total Recoverable                 | NA                                                                                                                           | NA            | 1000.0 | 1216.94         | 14.00 | 308/18.5         | 1.12  | 3.96  | YES          |
| Lead, Total Recoverable                 | 150.8                                                                                                                        | 3.05          | 5.9    | 3.04            | 13.00 | 2.5/0.5          | 0.34  | 1.22  | NO           |
| Mercury, Total Recoverable              | 2.8                                                                                                                          | 0.14          | 0.5    | 0.14            | 13.00 | 0.13/0.1         | 0.08  | 1.05  | NO           |
| Nickel, Total Recoverable               | 706.1                                                                                                                        | 6.74          | 78.5   | 6.72            | 17.00 | 4.7/1.3          | 0.29  | 1.43  | NO           |
| Selenium, Total Recoverable             | NA                                                                                                                           | NA            | 5.0    | 13.07           | 47.00 | 7/0.15           | 1.54  | 1.87  | YES          |
| Zinc, Total Recoverable                 | 180.7                                                                                                                        | 178.71        | 179.2  | 178.28          | 20.00 | 94.2/10.6        | 0.52  | 1.90  | NO           |
| Phenol                                  | 10200.0                                                                                                                      | 6612.76       | 2560.0 | 6596.80         | 10.00 | 520/0.025        | 2.54  | 12.72 | YES          |

N/A – Not Applicable

\* - Units are (µg/L) unless otherwise noted.

\*\* - If the number of samples is 10 or greater, then the CV value must be used in the WQBEL for the applicable constituent. If the number of samples is < 10, then the default CV value must be used in the WQBEL for the applicable constituent.

\*\*\* - Coefficient of Variation (CV) is calculated by dividing the Standard Deviation of the sample set by the Mean of the same sample set.

RWC – Receiving Water Concentration. It is the concentration of a toxicant or the parameter toxicity in the receiving water after mixing (if applicable).

n – Is the number of samples.

MF – Multiplying Factor. 99% Confidence Level and 99% Probability Basis.

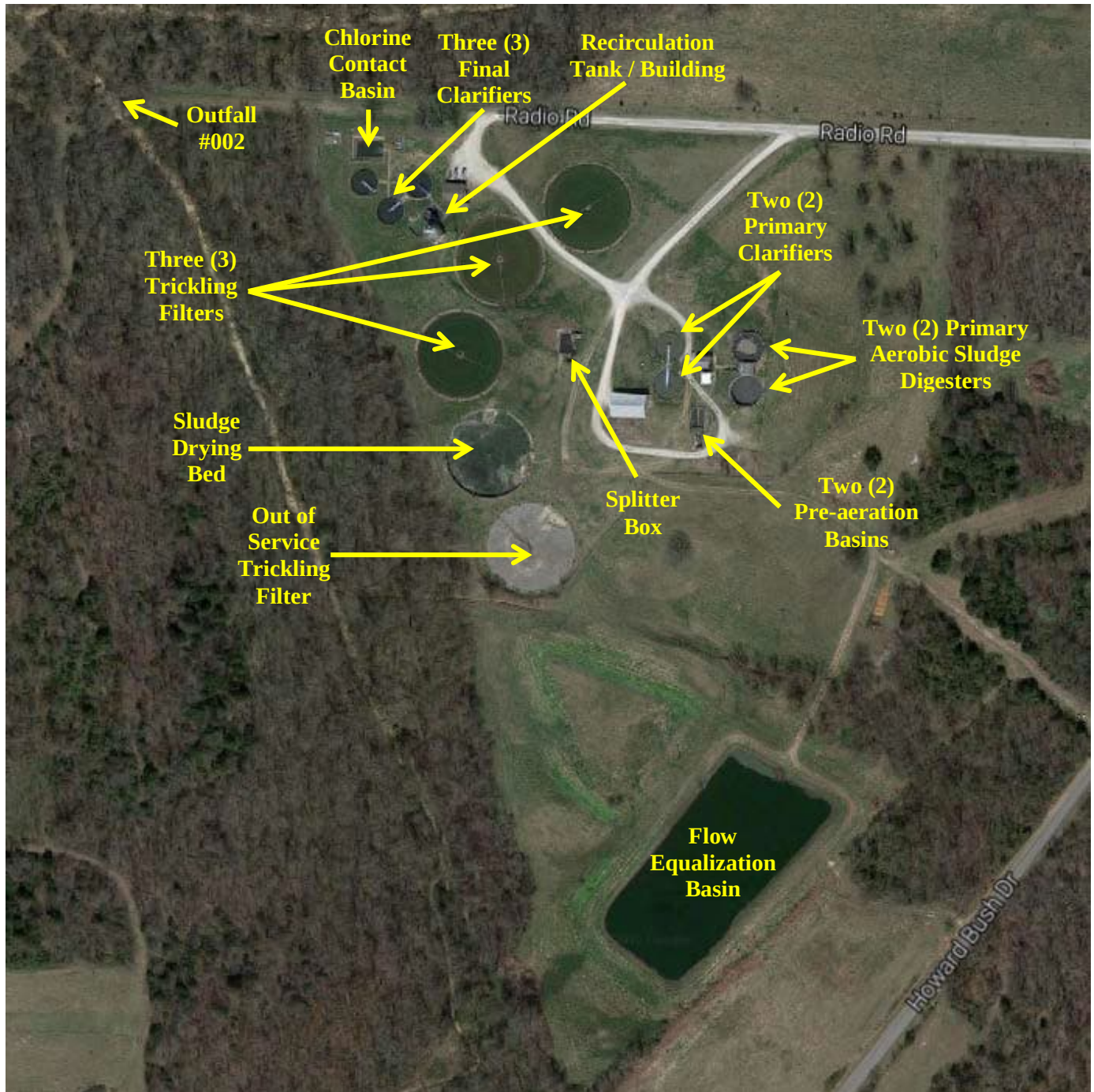
RP – Reasonable Potential. It is where an effluent is projected or calculated to cause an excursion above a water quality standard based on a number of factors including, as a minimum, the four factors listed in 40 CFR 122.44(d)(1)(ii).

Reasonable Potential Analysis is conducted as per (TSD, EPA/505/2-90-001, Section 3.3.2). A more detailed version including calculations of this RPA is available upon request.

**APPENDIX – ALTERNATIVE: FACILITY AERIAL FOR SHOAL CREEK WWTP**

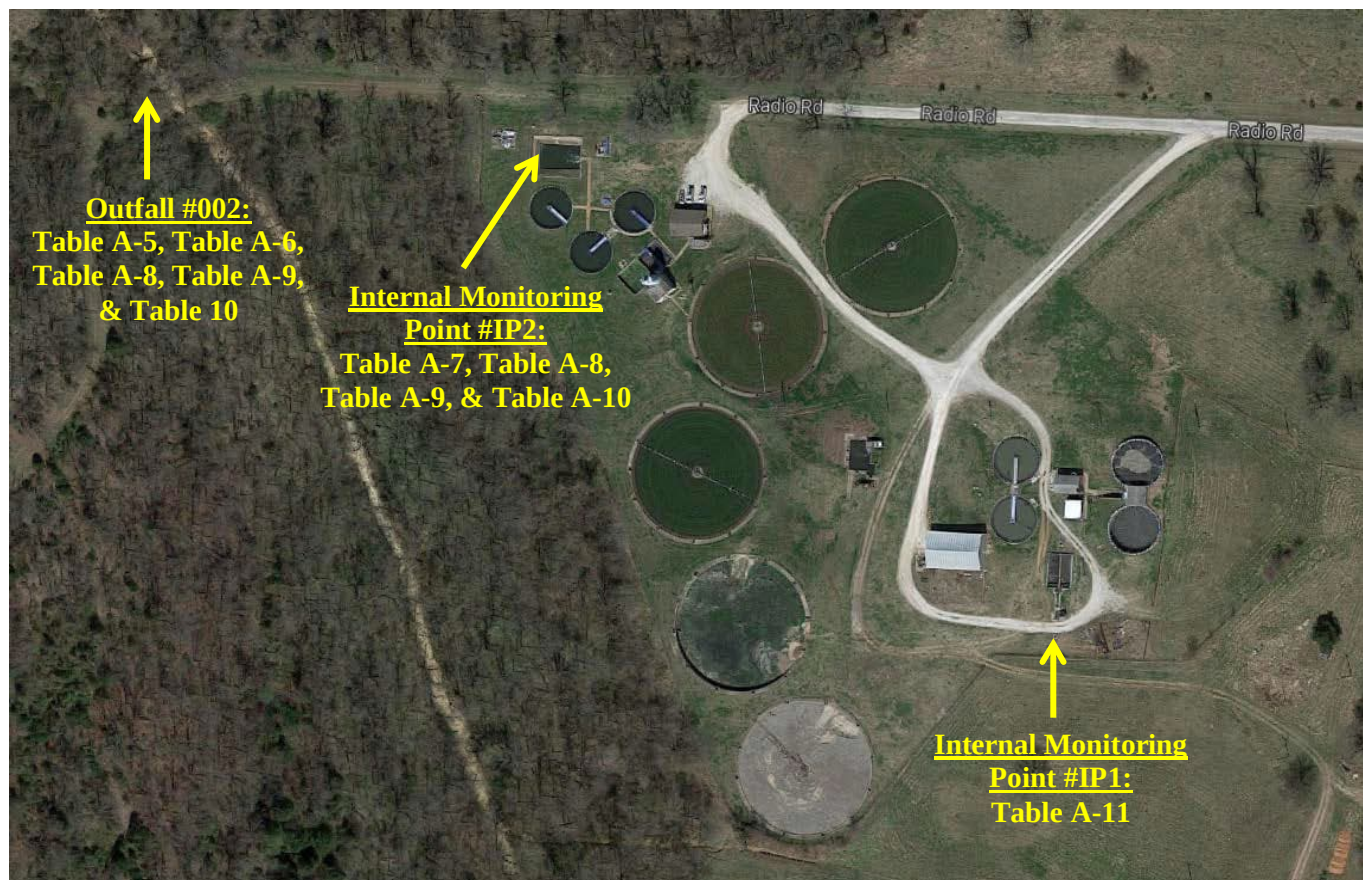


**APPENDIX – ALTERNATIVE: FACILITY AERIAL FOR NEOSHO CROWDER WWTP**



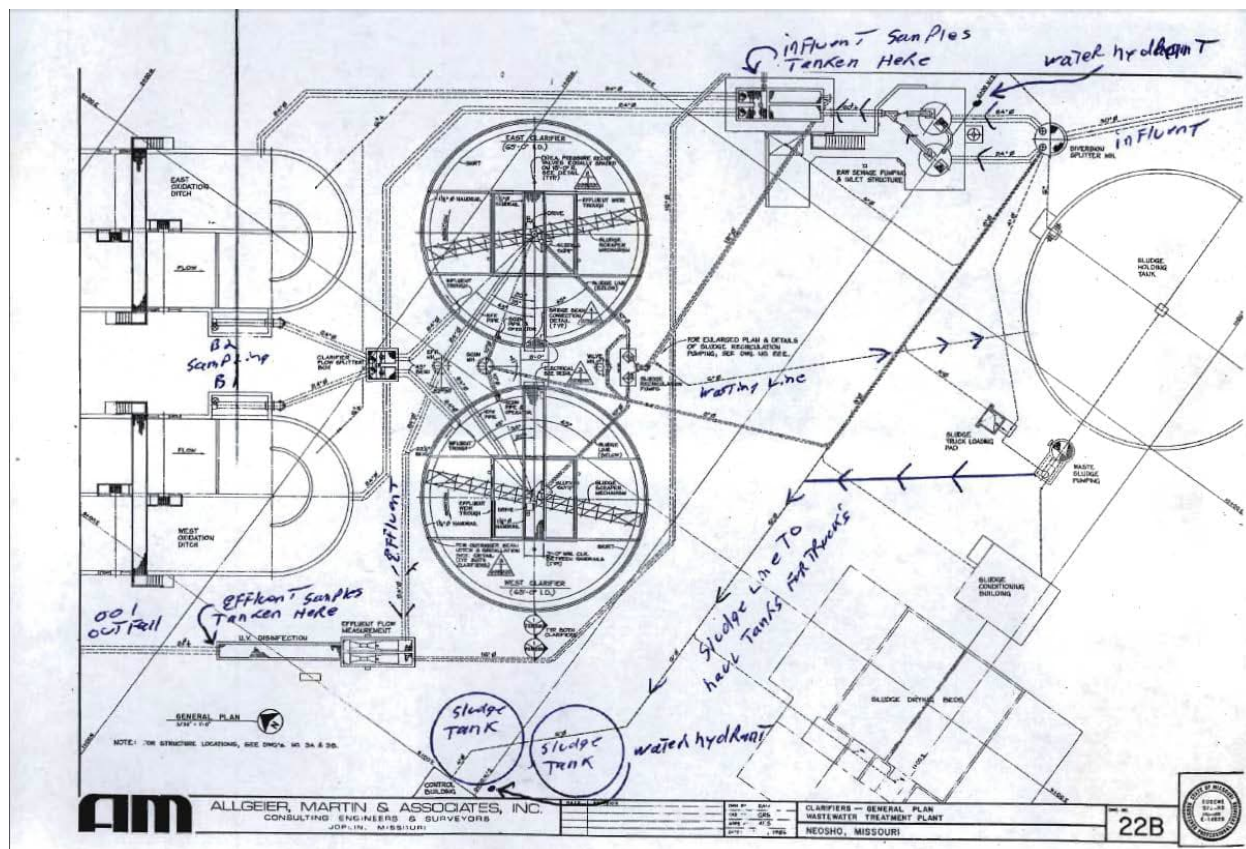


**APPENDIX – ALTERNATIVE: MONITORING LOCATIONS AND ASSOCIATED TABLES**

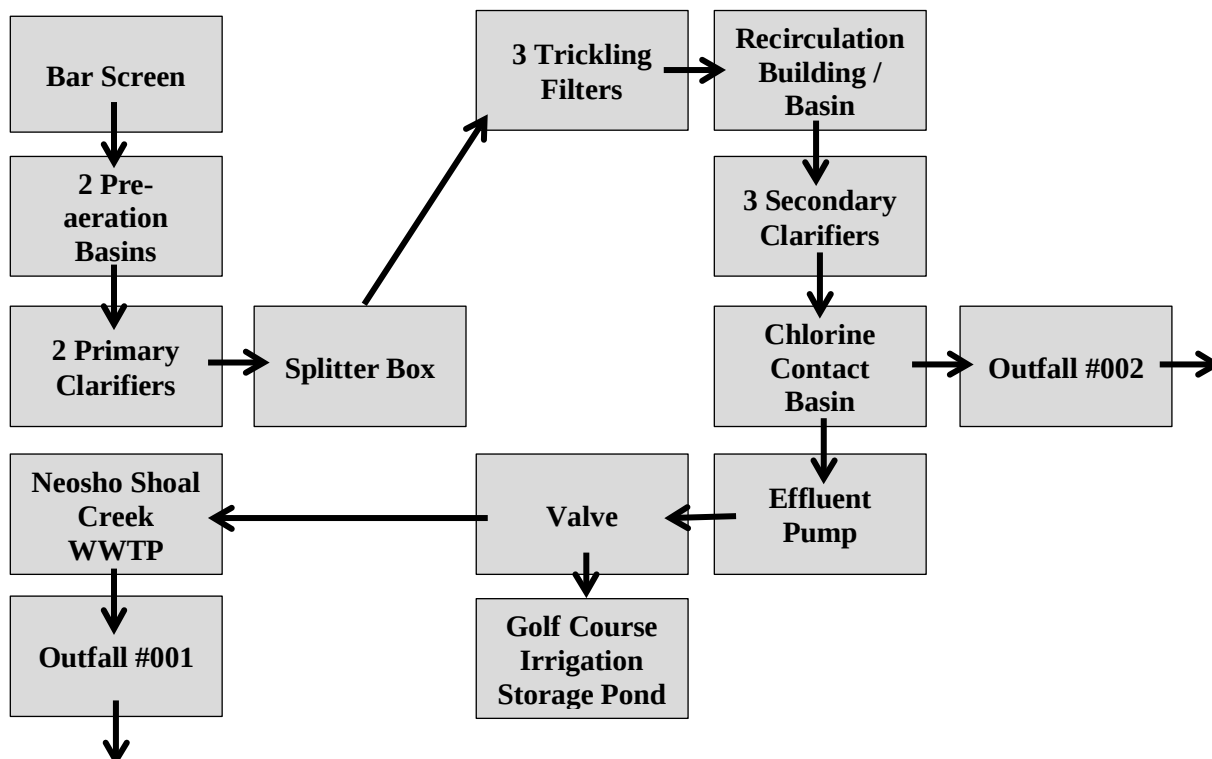




# APPENDIX – ALTERNATIVE: PROCESS FLOW DIAGRAM FOR NEOSHO SHOAL CREEK WWTP



# APPENDIX – ALTERNATIVE: PROCESS FLOW DIAGRAM FOR NEOSHO CROWDER WWTP



**APPENDIX – COST ANALYSIS FOR COMPLIANCE:**

**Missouri Department of Natural Resources  
Water Protection Program  
Cost Analysis for Compliance  
(In accordance with RSMo 644.145)**

**Neosho Wastewater Treatment Plant, Permit Renewal  
City of Neosho  
Missouri State Operating Permit #MO-0104906**

Section 644.145 RSMo requires the Department of Natural Resources (DNR) to make a “finding of affordability” when “issuing permits under” or “enforcing provisions of” state or federal clean water laws “pertaining to any portion of a combined or separate sanitary sewer system for publicly-owned treatment works.”

This cost analysis is based on data available to the Department as provided by the permittee and data obtained from readily available sources. For the most accurate analysis, it is essential that the permittee provides the Department with current information about the City’s financial and socioeconomic situation. The financial questionnaire available to permittees on the DNR website (<http://dnr.mo.gov/forms/780-2511-f.pdf>) should have been submitted with the permit renewal application. If it was not received with the renewal application, the Department sent a request to complete it with the welcome letter. The Department currently uses software to estimate the cost for reconstruction of a treatment plant titled CAPDEWORKS (CapDet). CapDet is a preliminary design and costing software program from Hydromantis<sup>1</sup> for wastewater treatment plants that uses national indices, such as the Marshall and Swift Index and Engineering News Records Cost Index for pricing in development of capital, operating, maintenance, material, and energy costs for each treatment technology. As the program works from national indices and each community is unique in its budget commitments and treatment design, the estimated costs are expected to be higher than actual costs. The cost estimates located within this document are for the construction of a brand new treatment facility or system that is the most practical to facilitate compliance with new requirements. For the most accurate analysis, it is essential that the permittee provides the Department with current information about the City’s financial and socioeconomic situation.

The Department is required to issue a permit with final effluent limits in accordance with 644.051.1.(1) RSMo, 644.051.1.(2) RSMo, and the Clean Water Act. The table below summarizes the results of this cost analysis for the City of Neosho. The practical result of this analysis is to incorporate a long compliance schedule into the permit in order to mitigate adverse impact to distressed populations resulting from the costs of upgrading the wastewater treatment facility.

| <b>Cost Analysis for Compliance Summary Table</b>                                                  |                                                             |                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Estimated present worth for adding chemical addition for phosphorus removal at Outfall #002</b> | <b>Median Household Income (MHI) for the City of Neosho</b> | <b>Estimated monthly cost per user as a percent of MHI (including estimated costs per user per month for additional monitoring requirements)</b> |
| <b>\$841,000</b>                                                                                   | <b>\$36,422</b>                                             | <b>0.79%</b>                                                                                                                                     |

**Facility Description:**

This permit includes two wastewater treatment facilities which serve the City of Neosho. These facilities were previously permitted separately – Neosho Crowder WWTP (MO-0039926) and Neosho Shoal Creek WWTP (MO-0104906). During normal operations at the Neosho Crowder WWTP, effluent is sent to the Neosho Shoal Creek WWTP, where effluent from the two plants mix together prior to the ultraviolet disinfection unit at the Neosho Shoal Creek WWTP. Therefore, it has been determined by the permit writer that combining the two permits into one permit is appropriate.

**Outfall #001 – Main Facility Outfall at Neosho Shoal Creek WWTP – POTW – SIC #4952**

Flow equalization basin / bar screen / 2 oxidation ditches / 2 final clarifiers / ultraviolet disinfection / aerobic sludge digester / 2 aerated sludge holding basins / sludge is land applied.

**Outfall #002 – Discharge at Neosho Crowder WWTP (previously permitted as Outfall #001 in MO-0039926) – POTW – SIC #4952**

Flow equalization basin / bar screen / 2 pre-aeration basins / 2 primary clarifiers / 3 trickling filters / recirculation basin / 3 secondary clarifiers / chlorine disinfection / chlorine contact basin / dechlorination / 2 primary aerobic sludge digesters / sludge drying bed / sludge is land applied.



## Facility Description (continued):

### Flow evaluated for potential construction projects:

Design flow of 3.0 MGD (Neosho Crowder WWTP design flow only – Outfall #002 is the only location required to meet a total phosphorus effluent limitation).

| City of Neosho Total Number of Connections: Neosho Shoal Creek WWTP & Neosho Crowder WWTP |                            |
|-------------------------------------------------------------------------------------------|----------------------------|
| Residential Connections:                                                                  | 4,246                      |
| Commercial Connections:                                                                   | Not provided by applicant. |
| Industrial Connections:                                                                   | 132                        |
| Total Connections for this facility:                                                      | <b>4,378</b>               |

### New Permit Requirements:

The permit requires compliance at Outfall #002 with new effluent limitations for total phosphorus, which may require the design, construction and operation of different treatment technology. The cost assumptions in this cost analysis do not assume the complete replacement of the existing facility, rather that if construction does occur, it will be in addition to the current facility. To calculate the estimated user cost per 5,000 gallons, the Department used the equations currently being used in the Financial Assistance Center's rate calculator. The equations account for replacement of equipment during the life of the treatment facility, debt retirement, capital costs, and an inflation factor. The calculator evaluates multiple technologies through CapDet at a range of flows, then, using a linear interpolation, develops a spreadsheet outlining high and low costs for treatment plants. For this analysis the Department has selected the mechanical treatment technology that could be the most practical solution to meet the new requirements for the community. Because the methods used to derive the analysis estimate costs that are greater than actual costs associated with an upgrade, it reflects a conservative estimate anticipated for a community. An overestimation of costs is due to the fact that it is not possible for the permit writer to determine what existing equipment and structures will be reused in the upgraded facility before an engineer completes a facility design.

This permit also requires compliance with new monitoring requirements illustrated in the table below.

| Permitted Feature                              | New Monitoring Requirements Included in the Permit                                                                                                                                       |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outfall #001                                   | New quarterly monitoring requirements for total nitrogen and total phosphorus and new requirements to conduct a Chronic Whole Effluent Toxicity (WET) test once during the permit cycle. |
| Outfall #002                                   | New daily monitoring for total phosphorus and new quarterly monitoring requirements for total nitrogen, total recoverable iron, and total recoverable selenium.                          |
| Internal Monitoring Point #IP2                 | New quarterly monitoring requirements for total nitrogen, total phosphorus, total recoverable iron, and total recoverable selenium.                                                      |
| Internal Monitoring Point #IP4                 | Increased influent monitoring requirements for Biochemical Oxygen Demand <sub>5</sub> and Total Suspended Solids from once/quarter to once/month.                                        |
| Instream (Upstream) Monitoring Location #SM1   | New quarterly monitoring requirements for total nitrogen and total phosphorus.                                                                                                           |
| Instream (Downstream) Monitoring Location #SM2 | New quarterly monitoring requirements for total hardness.                                                                                                                                |
| Additional Requirements                        | New requirements that the permittee shall implement a Stormwater Pollution Prevention Plan (SWPPP).                                                                                      |

The size of the facility evaluated for upgrades was chosen based on the permitted design flow. If significant population growth is expected in the community, or if a significant portion of the flow is due to I&I, the flows used in the Facility Plan prepared by a consulting engineer may be different than this flow.

### Anticipated Costs Associated with Complying with the New Requirements:

#### Cost associated with chemical addition for phosphorus removal:

The total present worth to add chemical addition treatment for phosphorus removal is estimated at \$841,000 (*CAPDEWORKS cost estimator was used*). This cost, if financed through user fees, might cost each household approximately \$0.97 per month. Due to the design limitations in the CapDet cost estimator, these costs have been over estimated. It is the Department's opinion that chemical addition for phosphorus removal is the most practical treatment technology for your community based on the current design flow. A more detailed engineering and design report conducted for your specific facility will be completed by your hired engineer. This may reflect a different type of treatment option than what is described within this analysis and may include additional collection system work or additional upgrades at the treatment plant.

**Cost associated with new sampling requirements:**

| Permitted Feature                              | Total Annual Cost of New Monitoring Requirements |
|------------------------------------------------|--------------------------------------------------|
| Outfall #001                                   | \$698.00                                         |
| Outfall #002                                   | \$688.00                                         |
| Internal Monitoring Point #IP2                 | \$688.00                                         |
| Internal Monitoring Point #IP4                 | \$684.00                                         |
| Instream (Upstream) Monitoring Location #SM1   | \$388.00                                         |
| Instream (Downstream) Monitoring Location #SM2 | \$188.00                                         |
| Additional Requirements – SWPPP                | \$2,000.00                                       |
| <b>Total Annual Cost</b>                       | <b>\$5,334.00</b>                                |

The total cost estimated for new monitoring requirements is \$5,334.00 annually. This cost, if financed through user fees, might cost each household an extra \$0.10 per month. A community sets their user rates based on several factors. The percentage of the current user rate that is available to cover new debt is unknown to the Department. Therefore, the permit writer has added this additional sampling cost per user per month to the estimated resulting user cost per household per month in Table B below.

This cost analysis does not dictate that a permittee will upgrade their facility, or how they will comply with the new permit requirements. For any questions associated with the *CAPDEWORKS cost estimator*, please contact the Engineering Section at (573) 751-6621.

**(1) A community's financial capability and ability to raise or secure necessary funding;**

|                                                                                                                                                                                                                 |                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Current Monthly User Rates:                                                                                                                                                                                     | \$22.83                        |
| Rate Capacity or Pay as You Go Option:                                                                                                                                                                          | Not provided by the applicant. |
| Municipal Bond Rating (if applicable):                                                                                                                                                                          | Not provided by the applicant. |
| Bonding Capacity:<br><i>(General Obligation Bond capacity allowed by constitution:<br/>cities=up to 20% of taxable tangible property<br/>sewer districts or villages=up to 5% of taxable tangible property)</i> | Not provided by the applicant. |
| Current outstanding debt for the WWTP:                                                                                                                                                                          | Not provided by the applicant. |
| Amount within the current user rate used toward payments on<br>outstanding debt related to the current wastewater infrastructure:                                                                               | Not provided by the applicant. |

Though the Department has made attempts to gather financial information from the City of Neosho; no information has been provided. The Department has relied heavily on readily available data to complete this analysis.

**(2) Affordability of pollution control options for the individuals or households at or below the median household income level of the community;**

**A Current Costs**

|                                                        |                                |
|--------------------------------------------------------|--------------------------------|
| Current annual operating costs (exclude depreciation): | Not provided by the applicant. |
| Current monthly user rate:                             | \$22.83                        |

**B Estimated Costs for Chemical Addition for Phosphorus Removal Control Option**

|                                                                                                                                                                                    |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Estimated total present worth of pollution control:*                                                                                                                               | \$841,000                                                                                             |
| Estimated capital cost of pollution control:**                                                                                                                                     | \$301,000                                                                                             |
| Annual cost of operation and maintenance:***                                                                                                                                       | \$27,000                                                                                              |
| Estimated additional user cost per household per month for chemical addition for phosphorus removal:                                                                               | \$0.97                                                                                                |
| Estimated additional user cost per household per month for new monitoring requirements:                                                                                            | \$0.10                                                                                                |
| Estimated resulting user cost per household per month:****                                                                                                                         | \$23.90                                                                                               |
| Estimated resulting user cost per household per month plus the amount within the current user rate used toward payments on outstanding debt:                                       | The community did not provide the Department with information regarding the current outstanding debt. |
| Median household income(MHI): <sup>2</sup>                                                                                                                                         | \$36,422                                                                                              |
| Cost per household as a percent of median household income: <sup>3</sup>                                                                                                           | 0.79%                                                                                                 |
| Estimated cost per household per month plus the amount within the current user rate used toward payments on outstanding debt as a percent of median household income: <sup>4</sup> | The community did not provide the Department with information regarding the current outstanding debt. |

CAPDET estimates the total present worth to finance the addition of chemical addition for phosphorus removal to be approximately \$841,000. If financed through user costs, the future user costs have the potential to be estimated at \$23.90 per month, which includes the estimated costs per user per month for additional monitoring requirements. These costs assume a 5% interest rate over 20 years. It is the Department's opinion that chemical addition for phosphorus removal is the most practical mechanical treatment option for the design flow of this facility.

The resulting cost per household as a percent of MHI will be used as the residential indicator in Criteria 7 below.

- \* Total Present Worth includes a five percent interest rate to construct and perform annual operation and maintenance of the new treatment plant over the term of the loan.
- \*\* Capital Cost includes project costs from CapDet with design, inspection and contingency costs.
- \*\*\* O&M cost shown in Table B includes operations, maintenance, materials, chemical and electrical costs for the facility on an annual basis. It includes items that are expected to replace during operations, such as pumps. O&M is estimated between 15% and 45% of the user cost.
- \*\*\*\* The Estimated User Cost shown in Table B is composed of the Current User Rate plus Operation & Maintenance (O&M) plus Debt Retirement Costs plus the estimated additional user cost per household per month for new monitoring requirements (\$22.83 + \$0.97 + \$0.10 = \$23.90).

**(3) An evaluation of the overall costs and environmental benefits of the control technologies;**

The investment in wastewater treatment will provide several social, environmental and economic benefits. Improved wastewater provides benefits such as avoided health costs due to water-related illness, enhanced environmental ecosystem quality, and improved natural resources. The preservation of natural resources has been proven to increase the economic value and sustainability of the surrounding communities. Maintaining Missouri's water quality standards fulfill the goals of restoring and maintaining the chemical, physical and biological integrity of the receiving stream; and, where attainable, to achieves a level of water quality that provides for the protection and propagation of fish, shellfish, wildlife and recreation in and on the water.

### **Nutrient Monitoring**

Nutrients are mineral compounds that are required for organisms to grow and thrive. Of the six (6) elemental macronutrients, Nitrogen and Phosphorus are generally not readily available and limit growth of organisms. Excess nitrogen and phosphorus will cause a shift in the ecosystem's food web. Once excess nitrogen and phosphorus are introduced into a waterbody, some species' populations will dramatically increase, while other populations will not be able to sustain life. Competition and productivity are two factors in which nutrients can alter aquatic ecosystems and the designated uses of a waterbody. For example, designated uses, such as drinking water sources and recreational uses become impaired when algal blooms take over a waterbody. These blooms can cause foul tastes and odors in the drinking water, unsightly appearance, and fish mortality in the waterbody. Some algae also produce toxins that may cause serious adverse health conditions such as liver damage, tumor promotion, paralysis, and kidney damage. The monitoring requirements for Nitrogen and Phosphorus have been added to the permit to provide data regarding the health of the receiving stream's aquatic life. A healthy ecosystem is beneficial as it provides reduced impacts on human and aquatic health as well as recreational opportunities.

### **Total Recoverable Metals**

Total recoverable metals can cause water quality issues instream. Monitoring requirements and effluent limitations will ensure the protection and propagation of fish, shellfish, wildlife and recreation in and on the water.

### **Total Hardness**

This permit contains final effluent limitations for total recoverable hardness dependent metals. Quarterly hardness monitoring will ensure the facility does not exceed water quality standards for total recoverable metals by utilizing a site-specific hardness in final effluent limitation derivations.

### **Whole Effluent Toxicity (WET) test**

The WET Test is a quantifiable method of determining if discharge from a facility may be causing toxicity to aquatic life by itself or in combination with receiving stream water. WET tests are required under 10 CSR 20-6.010(8)(A)4 to be performed by specialists properly trained in conducting the test according to 40 CFR 136. This test will help ensure that the existing permit limits are providing adequate protection for aquatic life at minimal expense to the permittee.

### **Stormwater Pollution Prevention Plan**

Stormwater runoff is water from rain or snowmelt that does not immediately infiltrate into the ground and flows over or through natural or man-made storage or conveyance systems. When undeveloped areas are converted to land uses with impervious surfaces such as buildings, parking lots, and roads, the natural hydrology of the land is altered and can result in increased surface runoff rates, volumes, and pollutant loads. Stormwater runoff picks up industrial pollutants and typically discharges them directly into nearby waterbodies or indirectly via storm sewer systems. Runoff from areas where industrial activities occur can contain toxic pollutants (e.g., heavy metals and organic chemicals) and other pollutants such as trash, debris, and oil and grease, when facility practices allow exposure of industrial materials to stormwater. This increased flow and pollutant load can impair waterbodies, degrade biological habitats, pollute drinking water sources, and cause flooding and hydrologic changes to the receiving water, such as channel erosion. Industrial facilities typically perform a portion of their activities in outdoor areas exposed to the elements. This may include activities such as material storage and handling, vehicle fueling and maintenance, shipping and receiving, and salt storage, all of which can result in pollutants being exposed to precipitation and capable of being carried off in stormwater runoff. Also, facilities may have performed industrial activities outdoors in the past and materials from those activities still remain exposed to precipitation. In addition, accidental spills and leaks, improper waste disposal, and illicit connections to storm sewers may also lead to exposure of pollutants to stormwater.

A SWPPP is a written document that identifies the industrial activities conducted at the site, including any structural control practices, which the industrial facility operator will implement to prevent pollutants from making their way into stormwater runoff. The SWPPP also must include descriptions of other relevant information, such as the physical features of the facility, and procedures for spill prevention, conducting inspections, and training of employees. The SWPPP is intended to be a "living" document, updated as necessary, such that when industrial activities or stormwater control practices are modified or replaced, the SWPPP is similarly revised to reflect these changes.

### **(4) Inclusion of ongoing costs of operating and maintaining the existing wastewater collection and treatment system, including payments on outstanding debts for wastewater collection and treatment systems when calculating projected rates:**

The community did not provide the Department with information, nor could it be found through readily available data.

- (5) **An inclusion of ways to reduce economic impacts on distressed populations in the community, including but not limited to low and fixed income populations. This requirement includes but is not limited to:**
- (a) Allowing adequate time in implementation schedules to mitigate potential adverse impacts on distressed populations resulting from the costs of the improvements and taking into consideration local community economic considerations.
  - (b) Allowing for reasonable accommodations for regulated entities when inflexible standards and fines would impose a disproportionate financial hardship in light of the environmental benefits to be gained.

**Socioeconomic Data**<sup>5-13:</sup>

| <b>Potentially Distressed Populations – City of Neosho</b> |          |
|------------------------------------------------------------|----------|
| Total Population (2015)                                    | 12,102   |
| Percent Population Growth/Decline (2000-2015)              | +15.2%   |
| 2015 MHI (in First-Half-of-2016 Dollar)                    | \$36,422 |
| Percent Change in MHI (2000-2015)                          | -15.72%  |
| Median Age (2015)                                          | 34.2     |
| Percent Change in Median Age (2000-2015)                   | -3.1%    |
| Unemployment Rate (2015)                                   | 4.3%     |
| Percent of Households in Poverty (2015)                    | 20.2%    |
| Percent of Households Receiving Food Stamps (2015)         | 19.3%    |

Opportunity for cost savings or cost avoidance:

- If available, connection to a larger centralized sewer system in the area may be more cost effective for the community.
- An opportunity may exist for the relocation of the point of discharge to a receiving stream capable of a greater mixing zone.
- The permittee may apply for State Revolving Fund (SRF) financial support in order to help fund a Capital Improvements Plan. Other loans and grants also exist for which the facility may be eligible. Contact information for the Department's Financial Assistance Center (FAC) and more information can be found on the Department's website at <http://dnr.mo.gov/env/wpp/srf/wastewater-assistance.htm>.

Opportunity for changes to implementation/compliance schedule, new technology, site specific criteria, use attainability analysis:

- The facility may propose changes to the schedule of compliance based on their own cost estimate or financial information.
- An integrated plan may be an appropriate option if they community needs to meet other environmental obligations as well as the new requirements within this permit. The integrated plan needs to be well thought out with specific timeframes built into the management plan that the municipality can reasonably commit to. The plan should be designed that will allow each municipality to meet their Clean Water Act obligations by maximizing their infrastructure improvement dollars through the appropriate sequencing of work.
- If the permittee can demonstrate that the proposed pollution controls result in substantial and widespread economic and social impact, the permittee may use Factor 6 of the Use Attainability Analysis (UAA) 40 CFR 131.10(g)(6) in the form of a variance. This process is completed by determining the treatment type with the highest attainable effluent quality that would not result in a socio-economic hardship. This process could potentially become expensive in itself.

- (6) **An assessment of other community investments and operating costs relating to environmental improvements and public health protection;**

The community did not provide the Department with information, nor could it be found through readily available data.

- (7) An assessment of factors set forth in the United States Environmental Protection Agency's guidance, including but not limited to the "Combined Sewer Overflow Guidance for Financial Capability Assessment and Schedule Development" that may ease the cost burdens of implementing wet weather control plans, including but not limited to small system considerations, the attainability of water quality standards, and the development of wet weather standards;

**Secondary indicators for consideration:**

| Indicators                                                 | Strong<br>(3 points)                        | Mid-Range<br>(2 points)            | Weak<br>(1 point)                           | Score                          |
|------------------------------------------------------------|---------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------|
| Bond Rating Indicator                                      | Above BBB or Baa                            | BBB or Baa                         | Below BBB or Baa                            | Not provided by the applicant. |
| Overall Net Debt as a % of Full Market Property Value      | Below 2%                                    | 2% - 5%                            | Above 5%                                    | Not provided by the applicant. |
| Unemployment Rate                                          | >1 below Missouri average of 8.1%           | ± 1 of Missouri average of 8.1%    | >1 above Missouri average of 8.1%           | 3                              |
| Median Household Income                                    | More than 25% above Missouri MHI (\$48,380) | ± 25% of Missouri MHI (\$48,380)   | More than 25% below Missouri MHI (\$48,380) | 2                              |
| Percent of Households in Poverty*                          | >10% below Missouri average of 15.6%        | ± 10% of Missouri average of 15.6% | >10% above Missouri average of 15.6%        | 2                              |
| Percent of Households Receiving Food Stamps*               | >5% below Missouri average of 13.5%         | ± 5% of Missouri average of 13.5%  | >5% above Missouri average of 13.5%         | 1                              |
| Property Tax Revenues as a % of Full Market Property Value | Below 2%                                    | 2% - 4%                            | Above 4%                                    | Not provided by the applicant. |
| Property Tax Collection Rate                               | Above 98%                                   | 94% - 98%                          | Below 94%                                   | Not provided by the applicant. |

\* Financial Capability Indicators are specific to the State of Missouri

Financial Capability (FCI) Indicators Average Score:

2.0

Chemical Addition for Phosphorus Removal Residential Indicator (RI, from Criteria #2 above):

0.79%

**Financial Capability Matrix:**

| Financial Capability Indicators Score from above ↓ | Residential Indicator (User cost as a % of MHI)                  |                                      |                      |
|----------------------------------------------------|------------------------------------------------------------------|--------------------------------------|----------------------|
|                                                    | Low<br>(Below 1%)                                                | Mid-Range<br>(Between 1.0% and 2.0%) | High<br>(Above 2.0%) |
| Weak (below 1.5)                                   | Medium Burden                                                    | High Burden                          | High Burden          |
| Mid-Range (1.5 – 2.5)                              | <b>Low Burden<br/>(Chemical Addition for Phosphorus Removal)</b> | Medium Burden                        | High Burden          |
| Strong (above 2.5)                                 | Low Burden                                                       | Medium Burden                        | High Burden          |

Estimated Financial Burden for Chemical Addition for Phosphorus Removal:

Low Burden

The resulting financial burden has been determined by comparing the Financial Capability Indicator score (FCI) with the Residential Indicator (RI) stated in Criteria #2. The cost associated with chemical addition for phosphorus removal could result in a Low financial burden placed on the community due to the Mid-Range FCI paired with the Low RI. Please see Criteria #2 for more information on the costs specific this treatment technology.

- (8) An assessment of any other relevant local community economic condition.

The community did not report any other relevant local economic conditions.



## Conclusion and Finding

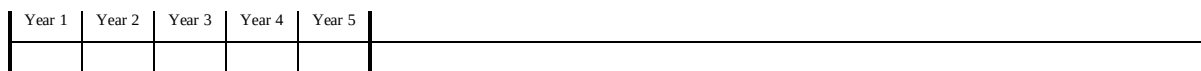
As a result of new regulations, the Department is proposing modifications to the current operating permit that may require the permittee to upgrade the facility, construct new control technologies, and to increase monitoring.

The Department considered the eight (8) criteria presented in subsection 644.145.3 when evaluating the cost associated with the relevant actions. The Department estimates the resulting monthly user costs for adding chemical addition to the existing treatment facility in order to meet new total phosphorus effluent limitations at Outfall #002 plus new and increased monitoring requirements could be \$23.90. Using this analysis, the Department finds that chemical addition for phosphorus removal is the most practical and affordable option for your community. The construction and operation of chemical addition for phosphorus removal will ensure that the individuals within the community will not be required to make unreasonable sacrifices in their essential lifestyle or spending patterns or undergo hardships in order to make the projected monthly payments for sewer connections. The Department finds that chemical addition for phosphorus removal may require user costs to be as high as 0.79% of the community's MHI (shown in Criteria #2).

In accordance with 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(11), compliance must occur as soon as possible. Therefore, based on this analysis the City of Neosho has received a five (5) year schedule of compliance for the design and construction of chemical addition for phosphorus removal. The following timeline illustrates milestones on which the five (5) year schedule of compliance should focus to maintain compliance with the permit requirements.

### Timeline 1: (not drawn to scale)

#### 5 Year Renewal



Five (5) year Schedule of Compliance

20 year Estimated Life of Facility

### Suggested milestones to meet within each year listed below:

- Year 1. Hire an engineer and conduct an evaluation of both the rate structure and the treatment plant.
- Year 2. Hold a bond election, apply for State Revolving Fund loans and/or grants, and submit a facility plan.
- Year 3. Apply for a Construction Permit and close on the loan.
- Year 4. Construction. The facility should also submit an application for renewal of the existing operating permit with new financial and socio-economic data.
- Year 5. Complete construction.

The schedule of compliance allows the community the five years to hire an engineer, evaluate operations and rate structure, obtain an engineering report, hold a bond election, close on a loan, construct the facility upgrades, and complete the project. At this time the community will know what the user rates will be based on the present worth of the chosen treatment type decided on by the community and the design engineer hired by the community. It is anticipated by the Department that rates will be increased at the end of the permit cycle to mitigate the cost of compliance of the new requirements.

The Department is committed to reassessing the cost analysis for compliance at renewal to determine if the initial schedule of compliance will accommodate the socioeconomic data and financial capability of the community at that time. In this longer time frame, the Department will work with you to explore the wastewater treatment options that make the most sense for your community. By working more closely with your community, the Department and permittees will be able to identify opportunities to extend the schedule of compliance, if appropriate. Because each community is unique, we want to make sure that you have the opportunity to consider all your options and tailor solutions to best meet your community's needs. The Department understands the economic challenges associated with achieving compliance, and is committed to using all available tools to make an accurate and practical finding of affordability for the communities in the State. If the community wishes to seek funding from the Department, please contact the Financial Assistance Center for more information. <http://www.dnr.mo.gov/env/Wpp/srf/index.html>

This determination is based on readily available data and may overestimate the financial impact on the community. The community's facility plan that is submitted as a part of the construction permit process includes a discussion of community details, what the community can afford, existing obligations, future growth potential, an evaluation of options available to the community with cost information, and a discussion on no-discharge alternatives. The cost information provided through the facility plan process, which is developed by the community and their engineer, is more comprehensive of the community's individual factors in relation to selected treatment technology and costing information.

## References:

| Additional Information Regarding New Costs                          |                                                                              |
|---------------------------------------------------------------------|------------------------------------------------------------------------------|
| Current User Costs / 5,000 gallons                                  | \$22.83                                                                      |
| Monthly O&M                                                         | $((\$27,000 / 12 \text{ months}) / 4,378 \text{ users}) = \$0.51$            |
| Annual Debt Retirement                                              | \$24,153                                                                     |
| Monthly Debt Retirement per user                                    | $((\$24,153 / 12 \text{ months}) / 4,378 \text{ users}) = \$0.46$            |
| Estimated User Costs / 5,000 gallons                                | $\$0.51 + \$0.46 = \mathbf{\$0.97}$                                          |
| Monthly New Sampling / User                                         | $((\$5,334.00 / 4,378 \text{ users}) / 12 \text{ months}) = \mathbf{\$0.10}$ |
| Estimated User Costs including Monthly New Sampling / 5,000 gallons | $\$22.83 + \$0.97 + \$0.10 = \mathbf{\$23.90}$                               |

- <http://www.hydromantis.com/>
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These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

## Part I – General Conditions

### Section A – Sampling, Monitoring, and Recording

#### 1. Sampling Requirements.

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.

#### 2. Monitoring Requirements.

- a. Records of monitoring information shall include:
  - i. The date, exact place, and time of sampling or measurements;
  - ii. The individual(s) who performed the sampling or measurements;
  - iii. The date(s) analyses were performed;
  - iv. The individual(s) who performed the analyses;
  - v. The analytical techniques or methods used; and
  - vi. The results of such analyses.
- b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.

3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

4. **Test Procedures.** The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is “sufficiently sensitive” when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility’s discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.

5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee’s sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

#### 6. Illegal Activities.

- a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
- b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

### Section B – Reporting Requirements

#### 1. Planned Changes.

- a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
  - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
  - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
  - iii. The alteration or addition results in a significant change in the permittee’s sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
  - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

#### 2. Non-compliance Reporting.

- a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



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- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
    - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
    - ii. Any upset which exceeds any effluent limitation in the permit.
    - iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
  - c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
3. **Anticipated Noncompliance.** The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
  4. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
  5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
  6. **Other Information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.
  7. **Discharge Monitoring Reports.**
    - a. Monitoring results shall be reported at the intervals specified in the permit.
    - b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
    - c. Monitoring results shall be reported to the Department no later than the 28<sup>th</sup> day of the month following the end of the reporting period.
- b. Notice.
    - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
    - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
  - c. Prohibition of bypass.
    - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
      1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      3. The permittee submitted notices as required under paragraph 2. b. of this section.
    - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.
3. **Upset Requirements.**
    - a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
    - b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
      - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
      - ii. The permitted facility was at the time being properly operated; and
      - iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
      - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
    - c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

## Section C – Bypass/Upset Requirements

1. **Definitions.**
  - a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
  - b. *Severe Property Damage*: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
  - c. *Upset*: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
2. **Bypass Requirements.**
  - a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.

## Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
  - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
  - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement





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imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
  - d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.
2. **Duty to Reapply.**
- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
  - b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission

for applications to be submitted later than the expiration date of the existing permit.)

- c. A permittee with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
5. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
6. **Permit Actions.**
- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
    - i. Violations of any terms or conditions of this permit or the law;
    - ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
    - iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
    - iv. Any reason set forth in the Law or Regulations.
  - b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
7. **Permit Transfer.**
- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
  - b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
  - c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.



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10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
  - a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
  - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.
12. **Closure of Treatment Facilities.**
  - a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
  - b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.
13. **Signatory Requirement.**
  - a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
  - b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
  - c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.





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PART II - SPECIAL CONDITIONS – PUBLICLY OWNED  
TREATMENT WORKS  
SECTION A – INDUSTRIAL USERS

**1. Definitions**

Definitions as set forth in the Missouri Clean Water Laws and approved by the Missouri Clean Water Commission shall apply to terms used herein.

Significant Industrial User (SIU). Except as provided in the *General Pretreatment Regulation* 10 CSR 20-6.100, the term Significant Industrial User means:

1. All Industrial Users subject to Categorical Pretreatment Standards; and
2. Any other Industrial User that: discharges an average of 25,000 gallons per day or more of process wastewater to the Publicly-Owned Treatment Works (POTW) (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the Industrial User has a reasonable potential for adversely affecting the POTW's or for violating any Pretreatment Standard or requirement.

Clean Water Act (CWA) is the the federal Clean Water Act of 1972, 33 U.S.C. § 1251 et seq. (2002).

**2. Identification of Industrial Discharges**

Pursuant to 40 CFR 122.44(j)(1), all POTWs shall identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR 403.

**3. Application Information**

Applications for renewal or modification of this permit must contain the information about industrial discharges to the POTW pursuant to 40 CFR 122.21(j)(6)

**4. Notice to the Department**

Pursuant to 40 CFR 122.42(b), all POTWs must provide adequate notice of the following:

1. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging these pollutants; and
2. Any substantial change into the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
3. For purposes of this paragraph, adequate notice shall include information on:
  - i. the quality and quantity of effluent introduced into the POTW, and
  - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

For POTWs without an approved pretreatment program, the notice of industrial discharges which was not included in the permit application shall be made as soon as practicable. For POTWs with an approved pretreatment program, notice is to be included in the annual pretreatment report required in the special conditions of this permit. Notice may be sent to:

Missouri Department of Natural Resources  
Water Protection Program  
Attn: Pretreatment Coordinator  
P.O. Box 176  
Jefferson City, MO 65102

**STANDARD CONDITIONS FOR NPDES PERMITS**  
**ISSUED BY**  
**THE MISSOURI DEPARTMENT OF NATURAL RESOURCES**  
**MISSOURI CLEAN WATER COMMISSION**  
**March 1, 2015**

**PART III – SLUDGE AND BIOSOLIDS FROM DOMESTIC AND INDUSTRIAL WASTEWATER  
TREATMENT FACILITIES**

**SECTION A – GENERAL REQUIREMENTS**

1. This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation for domestic wastewater and industrial process wastewater. This permit also incorporates applicable federal sludge disposal requirements under 40 CFR 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR 503 for domestic wastewater. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address the federal requirements.
2. These PART III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW), privately owned facilities and sludge or biosolids generated at industrial facilities.
3. Sludge and Biosolids Use and Disposal Practices:
  - a. The permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in the facility description of this permit.
  - b. The permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
  - c. The permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.
4. Sludge Received from other Facilities:
  - a. Permittees may accept domestic wastewater sludge from other facilities including septic tank pumpings from residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
  - b. The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source of the sludge
5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.
6. These permit requirements do not supersede nor remove liability for compliance with other environmental regulations such as odor emissions under the Missouri Air Pollution Control Law and regulations.
7. This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act or under Chapter 644 RSMo.
8. In addition to STANDARD CONDITIONS, the Department may include sludge limitations in the special conditions portion or other sections of a site specific permit.
9. Alternate Limits in the Site Specific Permit.

Where deemed appropriate, the Department may require an individual site specific permit in order to authorize alternate limitations:

  - a. A site specific permit must be obtained for each operating location, including application sites.
  - b. To request a site specific permit, an individual permit application, permit fee, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.
10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the Department, as follows:
  - a. The Department will prepare a permit modification and follow permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owner of the property located adjacent to each land application site, where appropriate.
  - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR 503.

## **SECTION B – DEFINITIONS**

1. Best Management Practices include agronomic loading rates, soil conservation practices and other site restrictions.
2. Biosolids means organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge.
3. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
4. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
5. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
6. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a (POTW) or a privately owned facility.
7. Industrial wastewater means any wastewater, also known as process water, not defined as domestic wastewater. Per 40 CFR Part 122, process water means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.
8. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including septic tanks, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological discs, and other similar facilities. It does not include wastewater treatment lagoons and constructed wetlands for wastewater treatment.
9. Operating location as defined in 10 CSR 20-2.010 is all contiguous lands owned, operated or controlled by one (1) person or by two (2) or more persons jointly or as tenants in common.
10. Plant Available Nitrogen (PAN) is the nitrogen that will be available to plants during the growing seasons after biosolids application.
11. Public contact site is land with a high potential for contact by the public. This includes, but is not limited to, public parks, ball fields, cemeteries, plant nurseries, turf farms, and golf courses.
12. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks or equivalent facilities. Sludge does not include carbon coal byproducts (CCBs)
13. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
14. Septage is the material pumped from residential septic tanks and similar treatment works (with a design population of less than 150 people). The standard for biosolids from septage is different from other sludges.

## **SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES**

1. Sludge shall be routinely removed from wastewater treatment facilities and handled according to the permit facility description and sludge conditions of this permit.
2. The permittee shall operate the facility so that there is no sludge discharged to waters of the state.
3. Mechanical treatment plants shall have separate sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove sludge from these storage compartments on the required design schedule is a violation of this permit.

## **SECTION D – SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR CONTRACT HAULER**

1. This section applies to permittees that haul sludge to another treatment facility for disposal or use contract haulers to remove and dispose of sludge.
2. Permittees that use contract haulers are responsible for compliance with all the terms of this permit including final disposal, unless the hauler has a separate permit for sludge or biosolids disposal issued by the Department; or the hauler transports the sludge to another permitted treatment facility.
3. Haulers who land apply septage must obtain a state permit.
4. Testing of sludge, other than total solids content, is not required if sludge is hauled to a municipal wastewater treatment facility or other permitted wastewater treatment facility, unless it is required by the accepting facility.

## **SECTION E – INCINERATION OF SLUDGE**

1. Sludge incineration facilities shall comply with the requirements of 40 CFR 503 Subpart E; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or if the ash is determined to be hazardous with 10 CSR 25.
3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, quantity of sludge incinerated, quantity of ash generated, quantity of ash stored, and ash used or disposal method, quantity, and location. Permittee shall also provide the name of the disposal facility and the applicable permit number.

## **SECTION F – SURFACE DISPOSAL SITES AND SLUDGE LAGOONS**

1. Surface disposal sites of domestic facilities shall comply with the requirements in 40 CFR 503 Subpart C; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
2. Sludge storage lagoons are temporary facilities and are not required to obtain a permit as a solid waste management facility under 10 CSR 80. In order to maintain sludge storage lagoons as storage facilities, accumulated sludge must be removed routinely, but not less than once every two years unless an alternate schedule is approved in the permit. The amount of sludge removed will be dependent on sludge generation and accumulation in the facility. Enough sludge must be removed to maintain adequate storage capacity in the facility.
  - a. In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of sludge on the bottom of the lagoon, upon prior approval of the Department; or
  - b. Permittee shall close the lagoon in accordance with Section H.

## **SECTION G – LAND APPLICATION**

1. The permittee shall not land apply sludge or biosolids unless land application is authorized in the facility description or the special conditions of the issued NPDES permit.
2. Land application sites within a 20 miles radius of the wastewater treatment facility are authorized under this permit when biosolids are applied for beneficial use in accordance with these standard conditions unless otherwise specified in a site specific permit. If the permittee's land application site is greater than a 20 mile radius of the wastewater treatment facility, approval must be granted from the Department.
3. Land application shall not adversely affect a threatened or endangered species or its designated critical habitat.
4. Biosolids shall not be applied unless authorized in this permit or exempted under 10 CSR 20, Chapter 6.
  - a. This permit does not authorize the land application of domestic sludge except for when sludge meets the definition of biosolids.
  - b. This permit authorizes "Class A or B" biosolids derived from domestic wastewater and/or process water sludge to be land applied onto grass land, crop land, timber or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.
5. Public Contact Sites:

Permittees who wish to apply Class A biosolids to public contact sites must obtain approval from the Department after two years of proper operation with acceptable testing documentation that shows the biosolids meet Class A criteria. A shorter length of testing will be allowed with prior approval from the Department. Authorization for land applications must be provided in the special conditions section of this permit or in a separate site specific permit.

  - a. After Class B biosolids have been land applied, public access must be restricted for 12 months.
  - b. Class B biosolids are only land applied to root crops, home gardens or vegetable crops whose edible parts will not be for human consumption.
6. Agricultural and Silvicultural Sites:

Septage – Based on Water Quality guide 422 (WQ422) published by the University of Missouri

  - a. Haulers that land apply septage must obtain a state permit
  - b. Do not apply more than 30,000 gallons of septage per acre per year.
  - c. Septage tanks are designed to retain sludge for one to three years which will allow for a larger reduction in pathogens and vectors, as compared to other mechanical type treatment facilities.
  - d. To meet Class B sludge requirements, maintain septage at 12 pH for at least thirty (30) minutes before land application. 50 pounds of hydrated lime shall be added to each 1,000 gallons of septage in order to meet pathogen and vector stabilization for septage biosolids applied to crops, pastures or timberland.
  - e. Lime is to be added to the pump truck and not directly to the septic tanks, as lime would harm the beneficial bacteria of the septic tank.

Biosolids - Based on Water Quality guide 423, 424, and 425 (WQ423, WQ424, WQ425) published by the University of Missouri;

- a. Biosolids shall be monitored to determine the quality for regulated pollutants
- b. The number of samples taken is directly related to the amount of sludge produced by the facility (See Section I of these Standard Conditions). Report as dry weight unless otherwise specified in the site specific permit. Samples should be taken only during land application periods. When necessary, it is permissible to mix biosolids with lower concentrations of biosolids as well as other suitable Department approved material to reach the maximum concentration of pollutants allowed.
- c. Table 1 gives the maximum concentration allowable to protect water quality standards

**TABLE 1**

| Biosolids ceiling concentration <sup>1</sup> |                                    |
|----------------------------------------------|------------------------------------|
| Pollutant                                    | Milligrams per kilogram dry weight |
| Arsenic                                      | 75                                 |
| Cadmium                                      | 85                                 |
| Copper                                       | 4,300                              |
| Lead                                         | 840                                |
| Mercury                                      | 57                                 |
| Molybdenum                                   | 75                                 |
| Nickel                                       | 420                                |
| Selenium                                     | 100                                |
| Zinc                                         | 7,500                              |

<sup>1</sup> Land application is not allowed if the sludge concentration exceeds the maximum limits for any of these pollutants

- d. The low metal concentration biosolids has reduced requirements because of its higher quality and can safely be applied for 100 years or longer at typical agronomic loading rates. (See Table 2)

**TABLE 2**

| Biosolids Low Metal Concentration <sup>1</sup> |                                    |
|------------------------------------------------|------------------------------------|
| Pollutant                                      | Milligrams per kilogram dry weight |
| Arsenic                                        | 41                                 |
| Cadmium                                        | 39                                 |
| Copper                                         | 1,500                              |
| Lead                                           | 300                                |
| Mercury                                        | 17                                 |
| Nickel                                         | 420                                |
| Selenium                                       | 36                                 |
| Zinc                                           | 2,800                              |

<sup>1</sup> You may apply low metal biosolids without tracking cumulative metal limits, provided the cumulative application of biosolids does not exceed 500 dry tons per acre.

- e. Each pollutant in Table 3 has an annual and a total cumulative loading limit, based on the allowable pounds per acre for various soil categories.

**TABLE 3**

| Pollutant | CEC 15+ |                    | CEC 5 to 15 |                    | CEC 0 to 5 |                    |
|-----------|---------|--------------------|-------------|--------------------|------------|--------------------|
|           | Annual  | Total <sup>1</sup> | Annual      | Total <sup>1</sup> | Annual     | Total <sup>1</sup> |
| Arsenic   | 1.8     | 36.0               | 1.8         | 36.0               | 1.8        | 36.0               |
| Cadmium   | 1.7     | 35.0               | 0.9         | 9.0                | 0.4        | 4.5                |
| Copper    | 66.0    | 1,335.0            | 25.0        | 250.0              | 12.0       | 125.0              |
| Lead      | 13.0    | 267.0              | 13.0        | 267.0              | 13.0       | 133.0              |
| Mercury   | 0.7     | 15.0               | 0.7         | 15.0               | 0.7        | 15.0               |
| Nickel    | 19.0    | 347.0              | 19.0        | 250.0              | 12.0       | 125.0              |
| Selenium  | 4.5     | 89.0               | 4.5         | 44.0               | 1.6        | 16.0               |
| Zinc      | 124.0   | 2,492.0            | 50.0        | 500.0              | 25.0       | 250.0              |

<sup>1</sup> Total cumulative loading limits for soils with equal or greater than 6.0 pH (salt based test) or 6.5 pH (water based test)

**TABLE 4** - Guidelines for land application of other trace substances <sup>1</sup>

| Cumulative Loading |                               |
|--------------------|-------------------------------|
| Pollutant          | Pounds per acre               |
| Aluminum           | 4,000 <sup>2</sup>            |
| Beryllium          | 100                           |
| Cobalt             | 50                            |
| Fluoride           | 800                           |
| Manganese          | 500                           |
| Silver             | 200                           |
| Tin                | 1,000                         |
| Dioxin             | (10 ppt in soil) <sup>3</sup> |
| Other              | <sup>4</sup>                  |

<sup>1</sup> Design of land treatment systems for Industrial Waste, 1979. Michael Ray Overcash, North Carolina State University and Land Treatment of Municipal Wastewater, EPA 1981.)

<sup>2</sup> This applies for a soil with a pH between 6.0 and 7.0 (salt based test) or a pH between 6.5 to 7.5 (water based test). Case-by-case review is required for higher pH soils.

<sup>3</sup> Total Dioxin Toxicity Equivalents (TEQ) in soils, based on a risk assessment under 40 CFR 744, May 1998.

<sup>4</sup> Case by case review. Concentrations in sludge should not exceed the 95<sup>th</sup> percentile of the National Sewage Sludge Survey, EPA, January 2009.

Best Management Practices – Based on Water Quality guide 426 (WQ426) published by the University of Missouri

- a. Use best management practices when applying biosolids.
- b. Biosolids cannot discharge from the land application site
- c. Biosolid application is subject to the Missouri Department of Agriculture State Milk Board concerning grazing restrictions of lactating dairy cattle.
- d. Biosolid application must be in accordance with section 4 of the Endangered Species Act.
- e. Do not apply more than the agronomic rate of nitrogen needed.
- f. The applicator must document the Plant Available Nitrogen (PAN) loadings, available nitrogen in the soil, and crop removal when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) When biosolids are land applied at an application rate greater than two dry tons per acre per year.
  - i. PAN can be determined as follows and is in accordance with WQ426  

$$(\text{Nitrate} + \text{nitrite nitrogen}) + (\text{organic nitrogen} \times 0.2) + (\text{ammonia nitrogen} \times \text{volatilization factor}^1).$$

<sup>1</sup> Volatilization factor is 0.7 for surface application and 1 for subsurface application.
- g. Buffer zones are as follows:
  - i. 300 feet of a water supply well, sinkhole, lake, pond, water supply reservoir or water supply intake in a stream;
  - ii. 300 feet of a losing stream, no discharge stream, stream stretches designated for whole body contact recreation, wild and scenic rivers, Ozark National Scenic Riverways or outstanding state resource waters as listed in the Water Quality Standards, 10 CSR 20-7.031;
  - iii. 150 feet if dwellings;
  - iv. 100 feet of wetlands or permanent flowing streams;
  - v. 50 feet of a property line or other waters of the state, including intermittent flowing streams.
- h. Slope limitation for application sites are as follows;
  - i. A slope 0 to 6 percent has no rate limitation
  - ii. Applied to a slope 7 to 12 percent, the applicator may apply biosolids when soil conservation practices are used to meet the minimum erosion levels
  - iii. Slopes > 12 percent, apply biosolids only when grass is vegetated and maintained with at least 80 percent ground cover at a rate of two dry tons per acre per year or less.
- i. No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
- j. Do not apply biosolids to sites with soil that is snow covered, frozen or saturated with liquid without prior approval by the Department.
- k. Biosolids / sludge applicators must keep detailed records up to five years.



## SECTION H – CLOSURE REQUIREMENTS

1. This section applies to all wastewater facilities (mechanical, industrial, and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids. Mechanical plants, sludge lagoons, ash ponds and other storage structures must obtain approval of a closure plan from the Department. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 – 6. 010 and 10 CSR 20 – 6.015.
3. Residuals that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
  - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
  - b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
  - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre.
    - i. PAN can be determined as follows:
$$(\text{Nitrate} + \text{nitrite nitrogen}) + (\text{organic nitrogen} \times 0.2) + (\text{ammonia nitrogen} \times \text{volatilization factor}^1).$$

<sup>1</sup> Volatilization factor is 0.7 for surface application and 1 for subsurface application.
4. When closing a domestic wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered “septage” under the similar treatment works definition. See Section B of these standard conditions. Under the septage category, residuals may be left in place as follows:
  - a. Testing for metals or fecal coliform is not required
  - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
  - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above. Allowable PAN loading is 300 pounds/acre.
5. Residuals left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berm shall be demolished, and the site shall be graded and contain  $\geq 70\%$  vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
6. Lagoons and/or earthen structure and/or ash pond closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200
7. When closing a mechanical wastewater and/or industrial process wastewater plant; all sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
  - a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain  $\geq 70\%$  vegetative density over 100% of the site, so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
  - b. Per 10 CSR 20-6.015(4)(B)6, Hazardous Waste shall not be land applied or disposed during industrial and mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations under 10 CSR 25.
  - c. After demolition of the mechanical plant / industrial plant, the site must only contain clean fill defined in RSMo 260.200 (5) as uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinderblocks, brick, minimal amounts of wood and metal, and inert solids as approved by rule or policy of the Department for fill or other beneficial use. Other solid wastes must be removed.
8. If sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or H, a landfill permit or solid waste disposal permit must be obtained if the permittee chooses to seek authorization for on-site sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.

## SECTION I – MONITORING FREQUENCY

1. At a minimum, sludge or biosolids shall be tested for volume and percent total solids on a frequency that will accurately represent sludge quantities produced and disposed. Please see the table below.

**TABLE 5**

| Design Sludge Production (dry tons per year) | Monitoring Frequency (See Notes 1, 2, and 3) |                           |                           |                                           |
|----------------------------------------------|----------------------------------------------|---------------------------|---------------------------|-------------------------------------------|
|                                              | Metals, Pathogens and Vectors                | Nitrogen TKN <sup>1</sup> | Nitrogen PAN <sup>2</sup> | Priority Pollutants and TCLP <sup>3</sup> |
| 0 to 100                                     | 1 per year                                   | 1 per year                | 1 per month               | 1 per year                                |
| 101 to 200                                   | biannual                                     | biannual                  | 1 per month               | 1 per year                                |
| 201 to 1,000                                 | quarterly                                    | quarterly                 | 1 per month               | 1 per year                                |
| 1,001 to 10,000                              | 1 per month                                  | 1 per month               | 1 per week                | -- <sup>4</sup>                           |
| 10,001 +                                     | 1 per week                                   | 1 per week                | 1 per day                 | -- <sup>4</sup>                           |

<sup>1</sup> Test total Kjeldahl nitrogen, if biosolids application is 2 dry tons per acre per year or less.

<sup>2</sup> Calculate plant available nitrogen (PAN) when either of the following occurs: 1) when biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.

<sup>3</sup> Priority pollutants (40 CFR 122.21, Appendix D, Tables II and III) and toxicity characteristic leaching procedure (40 CFR 261.24) is required only for permit holders that must have a pre-treatment program.

<sup>4</sup> One sample for each 1,000 dry tons of sludge.

Note 1: Total solids: A grab sample of sludge shall be tested one per day during land application periods for percent total solids.

This data shall be used to calculate the dry tons of sludge applied per acre.

Note 2: Total Phosphorus: Total phosphorus and total potassium shall be tested at the same monitoring frequency as metals.

Note 3: Table 5 is not applicable for incineration and permit holders that landfill their sludge.

2. If you own a wastewater treatment lagoon or sludge lagoon that is cleaned out once a year or less, you may choose to sample only when the sludge is removed or the lagoon is closed. Test one composite sample for each 100 dry tons of sludge or biosolids removed from the lagoon during the year within the lagoon at closing. Composite sample must represent various areas at one-foot depth.
3. Additional testing may be required in the special conditions or other sections of the permit. Permittees receiving industrial wastewater may be required to conduct additional testing upon request from the Department.
4. At this time, the Department recommends monitoring requirements shall be performed in accordance with, "POTW Sludge Sampling and Analysis Guidance Document," United States Environmental Protection Agency, August 1989, and the subsequent revisions.

## SECTION J – RECORD KEEPING AND REPORTING REQUIREMENTS

1. The permittee shall maintain records on file at the facility for at least five years for the items listed in these standard conditions and any additional items in the Special Conditions section of this permit. This shall include dates when the sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
2. Reporting period
  - a. By January 28<sup>th</sup> of each year, an annual report shall be submitted for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and sludge or biosolids disposal facilities.
  - b. Permittees with wastewater treatment lagoons shall submit the above annual report only when sludge or biosolids are removed from the lagoon during the report period or when the lagoon is closed.
3. Report Forms. The annual report shall be submitted on report forms provided by the Department or equivalent forms approved by the Department.
4. Reports shall be submitted as follows:

Major facilities (those serving 10,000 persons or 1 million gallons per day) shall report to both the Department and EPA. Other facilities need to report only to the Department. Reports shall be submitted to the addresses listed as follows:

DNR regional office listed in your permit  
(see cover letter of permit)  
ATTN: Sludge Coordinator

EPA Region VII  
Water Compliance Branch (WACM)  
Sludge Coordinator  
11201 Renner Blvd.  
Lenexa, KS 66219

5. Annual report contents. The annual report shall include the following:
- a. Sludge and biosolids testing performed. Include a copy or summary of all test results, even if not required by the permit.
  - b. Sludge or biosolids quantity shall be reported as dry tons for quantity generated by the wastewater treatment facility, the quantity stored on site at the end of the year, and the quantity used or disposed.
  - c. Gallons and % solids data used to calculate the dry ton amounts.
  - d. Description of any unusual operating conditions.
  - e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
    - i. This must include the name, address for the hauler and sludge facility. If hauled to a municipal wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name of that facility.
    - ii. Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.
  - f. Contract Hauler Activities:  
If contract hauler, provide a copy of a signed contract from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge or biosolids use permit.
  - g. Land Application Sites:
    - i. Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as a legal description for nearest ¼, ¼, Section, Township, Range, and county, or UTM coordinates. The facility shall report PAN when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.
    - ii. If the "Low Metals" criteria are exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative pollutant loading which has been reached at each site.
    - iii. Report the method used for compliance with pathogen and vector attraction requirements.
    - iv. Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.

JUL 18 2016



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

Water Protection Program

**FORM B2 – APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE  
PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS  
PER DAY**

FACILITY NAME

Shoal Creek Neosho MO.

PERMIT NO.

MO 0104906

COUNTY

Newton

**APPLICATION OVERVIEW**

Form B2 has been developed in a modular format and consists of Parts A, B and C and a Supplemental Application Information (Parts D, E, F and G) packet. All applicants must complete Parts A, B and C. Some applicants must also complete parts of the Supplemental Application Information packet. The following items explain which parts of Form B2 you must complete. Submittal of an incomplete application may result in the application being returned.

**BASIC APPLICATION INFORMATION**

- A. Basic Application Information for all Applicants. All applicants must complete Part A.
- B. Additional Application Information for all Applicants. All applicants must complete Part B.
- C. Certification. All applicants must complete Part C.

**SUPPLEMENTAL APPLICATION INFORMATION**

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface water of the United States and meets one or more of the following criteria must complete *Part D - Expanded Effluent Testing Data*:
  - 1. Has a design flow rate greater than or equal to 1 million gallons per day.
  - 2. Is required to have or currently has a pretreatment program.
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete *Part E - Toxicity Testing Data*:
  - 1. Has a design flow rate greater than or equal to 1 million gallons per day.
  - 2. Is required to have or currently has a pretreatment program.
  - 3. Is otherwise required by the permitting authority to provide the information.
- F. Industrial User Discharges and Resource Conservation and Recovery Act / Comprehensive Environmental Response, Compensation and Liability Act Wastes. A treatment works that accepts process wastewater from any significant industrial users, also known as SIUs, or receives a Resource Conservation and Recovery Act or CERCLA wastes must complete *Part F - Industrial User Discharges and Resource Conservation and Recovery Act /CERCLA Wastes*.  
SIUs are defined as:
  - 1. All Categorical Industrial Users, or CIUs, subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations 403.6 and 40 Code of Federal Regulations 403.6 and 40 CFR Chapter 1, Subchapter N.
  - 2. Any other industrial user that meets one or more of the following:
    - i. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions).
    - ii. Contributes a process waste stream that makes up five percent or more of the average dry weather hydraulic or organic capacity of the treatment plant.
    - iii. Is designated as an SIU by the control authority.
    - iv. Is otherwise required by the permitting authority to provide the information.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete *Part G - Combined Sewer Systems*.

**ALL APPLICANTS MUST COMPLETE PARTS A, B and C**



JUL 18 2016



MISSOURI DEPARTMENT OF NATURAL RESOURCES **Water Protection Program**  
 WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH  
**FORM B2 – APPLICATION FOR AN OPERATING PERMIT FOR  
 FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND  
 HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS PER DAY**

**FOR AGENCY USE ONLY**

CHECK NUMBER

DATE RECEIVED

FEE SUBMITTED

7/18/16

08B

**PART A – BASIC APPLICATION INFORMATION****1. THIS APPLICATION IS FOR:**

- ☐ An operating permit for a new or unpermitted facility. Construction Permit # \_\_\_\_\_  
 (Include completed Antidegradation Review or request to conduct an Antidegradation Review, see instructions)  
☒ An operating permit renewal: Permit #MO- 0104906 Expiration Date 12/31/2016  
☐ An operating permit modification: Permit #MO- \_\_\_\_\_ Reason: \_\_\_\_\_

1.1 Is the appropriate fee included with the application (see instructions for appropriate fee)? ☐ YES ☐ NO

**2. FACILITY**

NAME  
Shoal Creek

TELEPHONE NUMBER WITH AREA CODE  
417-451-8080

ADDRESS (PHYSICAL)  
2201 OLD scenic DR

CITY  
Neosho

STATE  
MO

ZIP CODE  
64850

2.1 **LEGAL DESCRIPTION** (Facility Site): NE ¼, NE ¼, ¼, Sec. 13, T 25n, R 32W

COUNTY  
Newton

2.2 UTM Coordinates Easting (X): 377635 Northing (Y): 4083914  
 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

2.3 Name of receiving stream: Shoal Creek

2.4 Number of Outfalls: 1 wastewater outfalls, 1 stormwater outfalls, 0 instream monitoring sites

**3. OWNER**

NAME  
City of Neosho

EMAIL ADDRESS

TELEPHONE NUMBER WITH AREA CODE  
417-451-8080

ADDRESS  
203 East Main St

CITY  
Neosho

STATE  
MO

ZIP CODE  
64850

3.1 Request review of draft permit prior to Public Notice? ☒ YES ☐ NO

3.2 Are you a Publically Owned Treatment Works (POTW)? ☒ YES ☐ NO  
 If yes, is the Financial Questionnaire attached? ☐ YES ☐ NO

3.3 Are you a Privately Owned Treatment Facility? ☐ YES ☒ NO

3.4 Are you a Privately Owned Treatment Facility regulated by the Public Service Commission (PSC)? ☐ YES ☒ NO

**4. CONTINUING AUTHORITY: Permanent organization which will serve as the continuing authority for the operation, maintenance and modernization of the facility.**

NAME  
City of Neosho

EMAIL ADDRESS  
kbrady@alliancewater.com

TELEPHONE NUMBER WITH AREA CODE  
417-451-8080

ADDRESS  
203 E Main

CITY  
Neosho

STATE  
MO

ZIP CODE  
64850

If the Continuing Authority is different than the Owner, include a copy of the contract agreement between the two parties and a description of the responsibilities of both parties within the agreement.

**5. OPERATOR**

NAME  
Tim E Parvin

TITLE  
Operator

CERTIFICATE NUMBER (IF APPLICABLE)  
9806

EMAIL ADDRESS  
Shoalcreek@alliancewater.com

TELEPHONE NUMBER WITH AREA CODE  
417-451-8080

**6. FACILITY CONTACT**

NAME  
Ken Brady

TITLE  
Local Manager

EMAIL ADDRESS  
kbrady@alliancewater.com

TELEPHONE NUMBER WITH AREA CODE  
417-451-8080

ADDRESS  
15318 Kentucky Rd

CITY  
Neosho

STATE  
MO

ZIP CODE  
64850

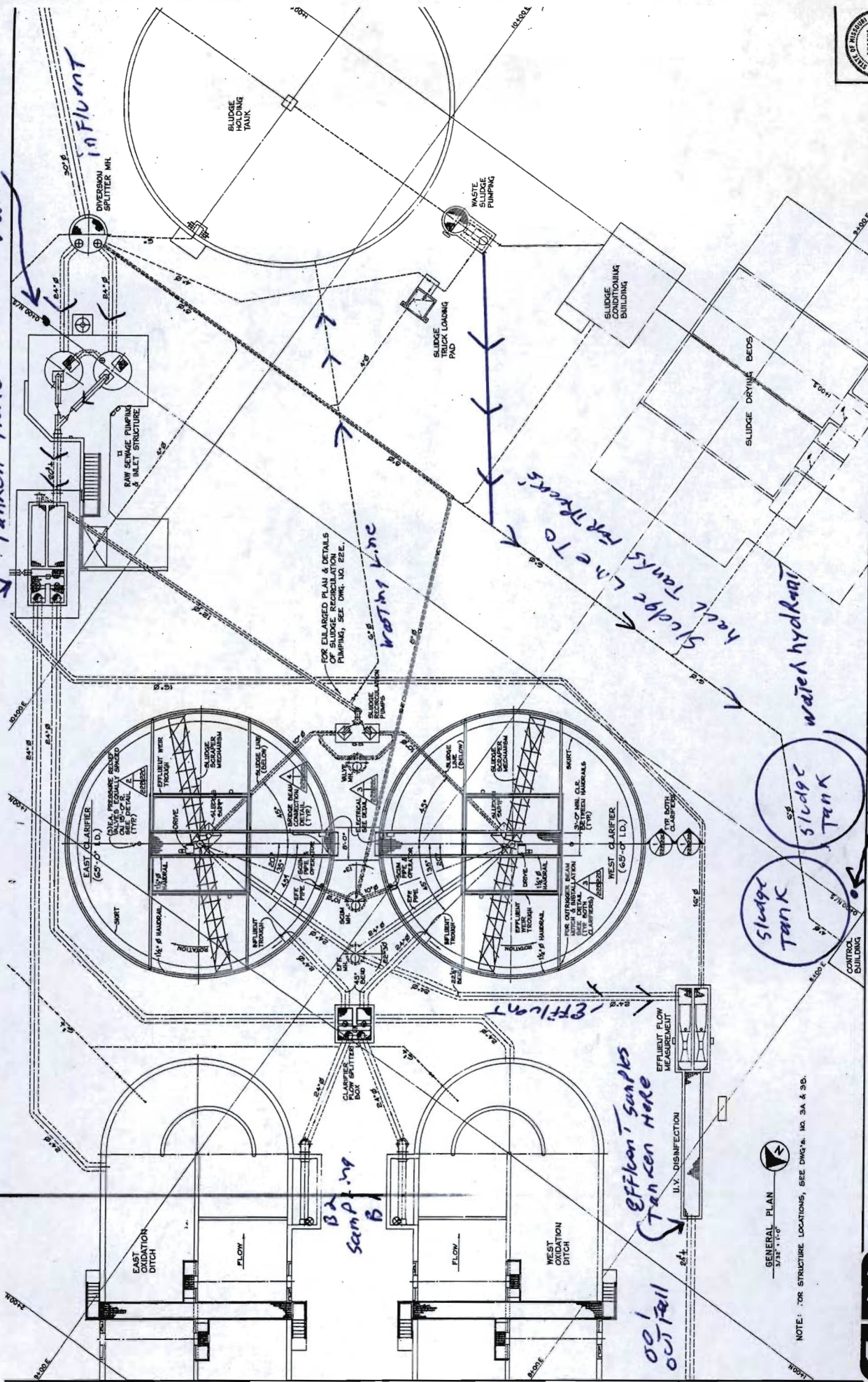






*Influent Samples Taken Here*

*water hydrant*



GENERAL PLAN  
MAY 1984

NOTE: FOR STRUCTURE LOCATIONS, SEE DWG'S NO. 3A & 3B.



22B

ALLGEIER, MARTIN & ASSOCIATES, INC.  
CONSULTING ENGINEERS & SURVEYORS  
JOP., IN. MISSOURI

DATE: MAY 1984  
BY: JEM  
CHECKED: JEM  
APPROVED: JEM

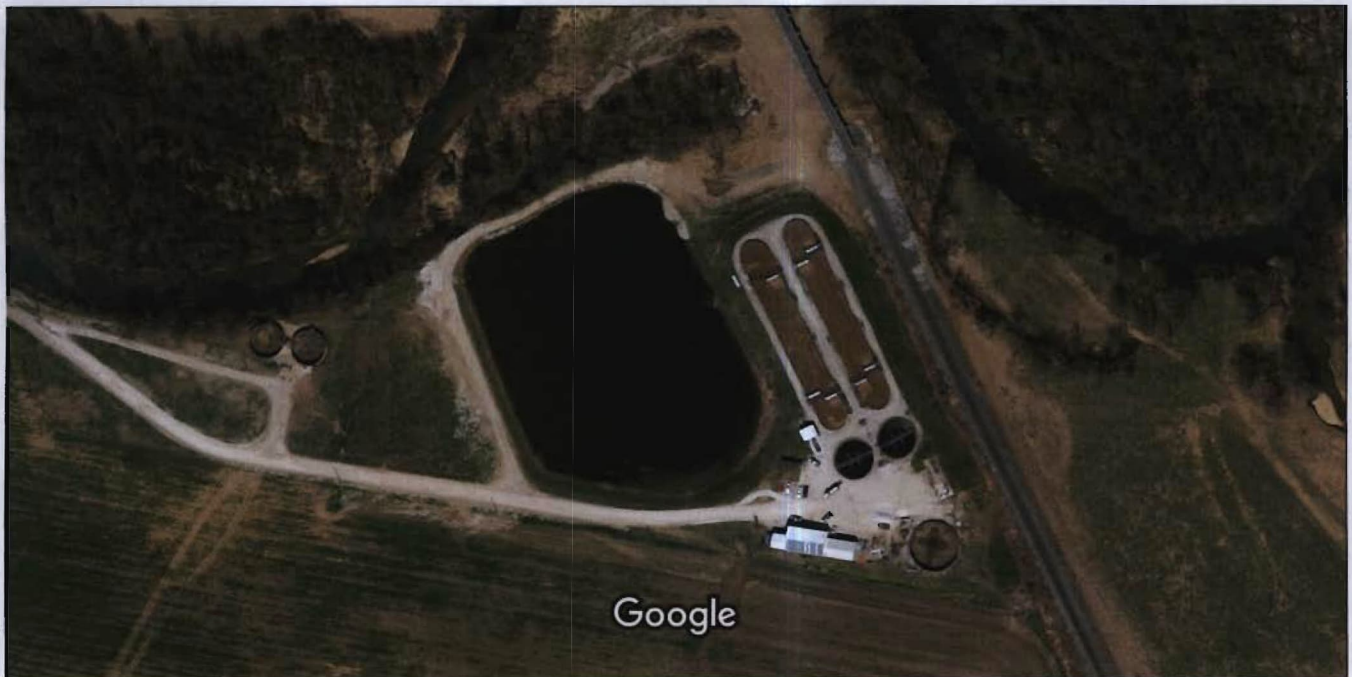
CLARIFIERS - GENERAL PLAN  
WASTEWATER TREATMENT PLANT  
NEOSHO, MISSOURI



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PERMIT NO.<br>MO- 0104906                  | OUTFALL NO.<br>001                     |
| <b>PART A – BASIC APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                                        |
| <b>7. FACILITY INFORMATION (continued)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |                                        |
| <p><b>7.2 Topographic Map.</b> Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information.</p> <ul style="list-style-type: none"> <li>a. The area surrounding the treatment plant, including all unit processes.</li> <li>b. The location of the downstream landowner(s). (See Item 10.)</li> <li>c. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.</li> <li>d. The actual point of discharge.</li> <li>e. Wells, springs, other surface water bodies and drinking water wells that are: 1) within ¼ mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.</li> <li>f. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.</li> <li>g. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, or disposed.</li> </ul> |                                            |                                        |
| <p><b>7.3</b> Facility SIC Code:<br/><u>4952</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>Discharge SIC Code:<br/><u>4952</u></p> |                                        |
| <p><b>7.4</b> Number of people presently connected or population equivalent (P.E.): <u>12,000</u>      Design P.E. <u>30,000</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                                        |
| <p><b>7.5</b> Connections to the facility:</p> <p>Number of units presently connected:</p> <p>Homes <u>4800</u>    Trailers _____    Apartments _____    Other (including industrial) <u>2</u></p> <p>Number of Commercial Establishments: _____</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                                        |
| <p><b>7.6</b> Design Flow<br/>3.0 MGD</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Actual Flow<br/>1.8 MGD</p>             |                                        |
| <p><b>7.7</b> Will discharge be continuous through the year?      Yes <input checked="" type="checkbox"/>      No <input type="checkbox"/><br/> Discharge will occur during the following months:      How many days of the week will discharge occur?<br/> <div style="text-align: right;">January Thru Dec    Seven days a week.</div></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                        |
| <p><b>7.8</b> Is industrial wastewater discharged to the facility?      Yes <input checked="" type="checkbox"/>      No <input type="checkbox"/><br/> If yes, describe the number and types of industries that discharge to your facility. Attach sheets as necessary<br/> Rembrandt Foods</p> <p style="text-align: center;">Refer to the APPLICATION OVERVIEW to determine whether additional information is needed for Part F.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |                                        |
| <p><b>7.9</b> Does the facility accept or process leachate from landfills?:      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                                        |
| <p><b>7.10</b> Is wastewater land applied?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/><br/> If yes, is Form I attached?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |                                        |
| <p><b>7.11</b> Does the facility discharge to a losing stream or sinkhole?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                        |
| <p><b>7.12</b> Has a wasteload allocation study been completed for this facility?      Yes <input type="checkbox"/>      No <input checked="" type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                        |
| <b>8. LABORATORY CONTROL INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                        |
| LABORATORY WORK CONDUCTED BY PLANT PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                        |
| Lab work conducted outside of plant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes <input checked="" type="checkbox"/>    | No <input type="checkbox"/>            |
| Push-button or visual methods for simple test such as pH, settleable solids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes <input checked="" type="checkbox"/>    | No <input type="checkbox"/>            |
| Additional procedures such as Dissolved Oxygen, Chemical Oxygen Demand, Biological Oxygen Demand, titrations, solids, volatile content.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Yes <input checked="" type="checkbox"/>    | No <input type="checkbox"/>            |
| More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes <input checked="" type="checkbox"/>    | No <input checked="" type="checkbox"/> |
| Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes <input checked="" type="checkbox"/>    | No <input checked="" type="checkbox"/> |

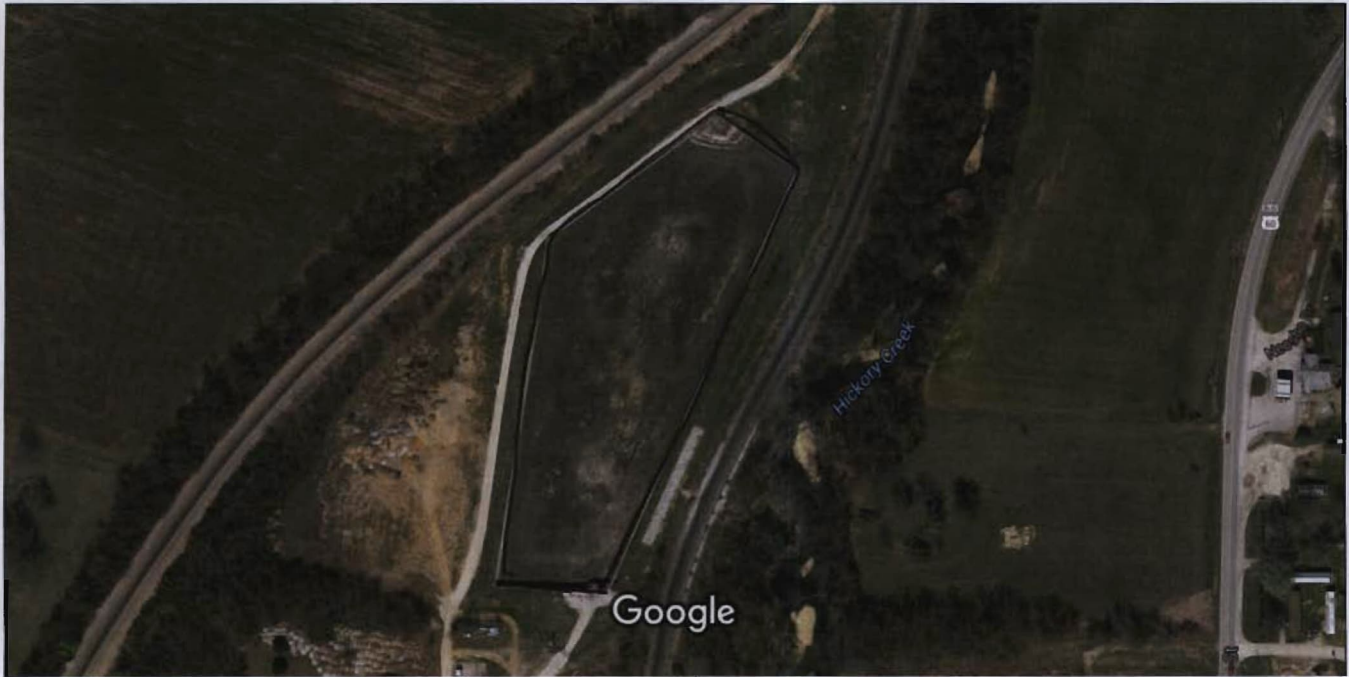


Google Maps



Imagery ©2016 Google, Map data ©2016 Google 100 ft

Google Maps



EQ BASIN

Imagery ©2016 Google, Map data ©2016 Google 100 ft



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                     | PERMIT NO.<br>MO- 0104906       | OUTFALL NO.<br>001      |
| <b>PART A – BASIC APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                         |
| <b>9. SLUDGE HANDLING, USE AND DISPOSAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                         |
| 9.1 Is the sludge a hazardous waste as defined by 10 CSR 25?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                            |                                 |                         |
| 9.2 Sludge production (Including sludge received from others): Design Dry Tons/Year 630      Actual Dry Tons/Year 334.30                                                                                                                                                                                                                                                                                                                                         |                                 |                         |
| 9.3 Sludge storage provided: <u>yes</u> Cubic feet; <u>1280</u> Days of storage; <u>45</u> Average percent solids of sludge;<br><br><input type="checkbox"/> No sludge storage is provided. <input type="checkbox"/> Sludge is stored in lagoon.                                                                                                                                                                                                                 |                                 |                         |
| 9.4 Type of storage: <input checked="" type="checkbox"/> Holding Tank <input type="checkbox"/> Building<br><input type="checkbox"/> Basin <input type="checkbox"/> Lagoon<br><input type="checkbox"/> Concrete Pad <input type="checkbox"/> Other (Describe) _____                                                                                                                                                                                               |                                 |                         |
| 9.5 Sludge Treatment:<br><br><input type="checkbox"/> Anaerobic Digester <input checked="" type="checkbox"/> Storage Tank <input type="checkbox"/> Lime Stabilization <input type="checkbox"/> Lagoon<br><input checked="" type="checkbox"/> Aerobic Digester <input type="checkbox"/> Air or Heat Drying <input type="checkbox"/> Composting <input type="checkbox"/> Other (Attach Description)                                                                |                                 |                         |
| 9.6 Sludge use or disposal:<br><br><input checked="" type="checkbox"/> Land Application <input type="checkbox"/> Contract Hauler <input type="checkbox"/> Hauled to Another Treatment Facility <input type="checkbox"/> Solid Waste Landfill<br><input type="checkbox"/> Surface Disposal (Sludge Disposal Lagoon, Sludge Held For More Than Two Years) <input type="checkbox"/> Incineration<br><input type="checkbox"/> Other (Attach Explanation Sheet) _____ |                                 |                         |
| 9.7 Person responsible for hauling sludge to disposal facility:<br><input type="checkbox"/> By Applicant <input type="checkbox"/> By Others (complete below)                                                                                                                                                                                                                                                                                                     |                                 |                         |
| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | EMAIL ADDRESS           |
| ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CITY                            | STATE    ZIP CODE       |
| CONTACT PERSON                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TELEPHONE NUMBER WITH AREA CODE | PERMIT NO.<br>MO-       |
| 9.8 Sludge use or disposal facility:<br><input type="checkbox"/> By Applicant <input type="checkbox"/> By Others (Complete below)                                                                                                                                                                                                                                                                                                                                |                                 |                         |
| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | EMAIL ADDRESS           |
| ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CITY<br>neosho                  | STATE<br>MO    ZIP CODE |
| CONTACT PERSON                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TELEPHONE NUMBER WITH AREA CODE | PERMIT NO.<br>MO-       |
| 9.9 Does the sludge or biosolids disposal comply with Federal Sludge Regulation 40 CFR 503?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    (Explain)                                                                                                                                                                                                                                                                                  |                                 |                         |
| <b>END OF PART A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |                         |



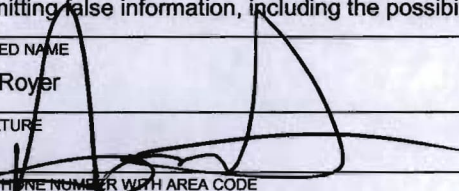
|                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                       | PERMIT NO.<br>MO- 0104906                 | OUTFALL NO.<br>001 |
| <b>PART B – ADDITIONAL APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                 |                                           |                    |
| <b>10. COLLECTION SYSTEM</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                    |
| <b>10.1</b> Length of sanitary sewer collection system in miles<br><u>108</u>                                                                                                                                                                                                                                                                                                                                      |                                           |                    |
| <b>10.2</b> Does significant infiltration occur in the collection system? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>If yes, briefly explain any steps underway or planned to minimize inflow and infiltration:<br>Taking Bids on lining certain areas deemed necessary by our collection Supervisor that cleans and cameras the city mains.                                           |                                           |                    |
| <b>11. BYPASSING</b>                                                                                                                                                                                                                                                                                                                                                                                               |                                           |                    |
| Does any bypassing occur anywhere in the collection system or at the treatment facility?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>If yes, explain:<br><i>Certain man holes run over in the places where we have not made improvements.</i>                                                                                                                                        |                                           |                    |
| <b>12. OPERATION AND MAINTENANCE PERFORMED BY CONTRACTOR(S)</b>                                                                                                                                                                                                                                                                                                                                                    |                                           |                    |
| Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of the contractor?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>If Yes, list the name, address, telephone number and status of each contractor and describe the contractor's responsibilities.<br>(Attach additional pages if necessary.) |                                           |                    |
| NAME<br>Alliance Water Resources                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                    |
| MAILING ADDRESS<br>15318 Kentucky Rd. Neosho, Mo 64850                                                                                                                                                                                                                                                                                                                                                             |                                           |                    |
| TELEPHONE NUMBER WITH AREA CODE<br>417-451-8080                                                                                                                                                                                                                                                                                                                                                                    | EMAIL ADDRESS<br>kbrady@alliancewater.com |                    |
| RESPONSIBILITIES OF CONTRACTOR<br>All operations and maintenance                                                                                                                                                                                                                                                                                                                                                   |                                           |                    |
| <b>13. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION</b>                                                                                                                                                                                                                                                                                                                                                  |                                           |                    |
| Provide information about any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses for each.                                                     |                                           |                    |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                           |                         |                    |                   |        |           |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------|-------------------------|--------------------|-------------------|--------|-----------|--------------|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | PERMIT NO.<br>MO- 0104906 |                         | OUTFALL NO.<br>001 |                   |        |           |              |
| <b>PART B – ADDITIONAL APPLICATION INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |                           |                         |                    |                   |        |           |              |
| <b>14. EFFLUENT TESTING DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                           |                         |                    |                   |        |           |              |
| Applicants must provide effluent testing data for the following parameters. Provide the indicated effluent data <b>for each outfall through which effluent is discharged</b> . Do not include information of combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least <b>three samples</b> and must be no more than four and one-half years apart. |                         |                           |                         |                    |                   |        |           |              |
| Outfall Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                           |                         |                    |                   |        |           |              |
| PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MAXIMUM DAILY VALUE     |                           | AVERAGE DAILY VALUE     |                    |                   |        |           |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Value                   | Units                     | Value                   | Units              | Number of Samples |        |           |              |
| pH (Minimum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6.76 6.67 6.91          | S.U.                      | 6.78                    | S.U.               | 3                 |        |           |              |
| pH (Maximum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7.68 8.74 7.81          | S.U.                      | 8.07                    | S.U.               | 3                 |        |           |              |
| Flow Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.0 2.7 2.0             | MGD                       | 2.2                     | MGD                | 3                 |        |           |              |
| *For pH report a minimum and a maximum daily value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |                           |                         |                    |                   |        |           |              |
| POLLUTANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MAXIMUM DAILY DISCHARGE |                           | AVERAGE DAILY DISCHARGE |                    | ANALYTICAL METHOD | ML/MDL |           |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Conc.                   | Units                     | Conc.                   | Units              |                   |        |           |              |
| Conventional and Nonconventional Compounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |                           |                         |                    |                   |        |           |              |
| BIOCHEMICAL OXYGEN DEMAND (Report One)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BOD <sub>5</sub>        |                           | mg/L                    |                    | mg/L              | 3      | SM5210B   | 2.0/63.6     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CBOD <sub>5</sub>       |                           | mg/L                    |                    | mg/L              | NA     | NA        | NA/NA        |
| E. COLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                           | #/100 mL                |                    | #/100 mL          | 3      | SM9223B   | 150.0/235900 |
| TOTAL SUSPENDED SOLIDS (TSS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                           | mg/L                    |                    | mg/L              | 3      | SM2540D   | 21.0/128     |
| AMMONIA (as N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                           | mg/L                    |                    | mg/L              | 3      | EPA350.1  | <.50/177     |
| CHLORINE* (TOTAL RESIDUAL, TRC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                           | mg/L                    |                    | mg/L              | NA     | NA        | NA           |
| DISSOLVED OXYGEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                           | mg/L                    |                    | mg/L              | 3      | SM4500-OG | 1.21/8.28    |
| OIL and GREASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                           | mg/L                    |                    | mg/L              | 3      | EPA 1664A | <5.0/.71     |
| OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |                           | mg/L                    |                    | mg/L              | 0      |           |              |
| *Report only if facility chlorinates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                           |                         |                    |                   |        |           |              |
| <b>END OF PART B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                           |                         |                    |                   |        |           |              |

\* See attached



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|
| FACILITY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PERMIT NO.<br>MO-                                                                   | OUTFALL NO. |
| <b>PART C – CERTIFICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     |             |
| <b>15. CERTIFICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |             |
| <p>All applicants must complete the Certification Section. This certification must be signed by an officer of the company or city official. All applicants must complete all applicable sections as explained in the Application Overview. By signing this certification statement, applicants confirm that they have reviewed the entire form and have completed all sections that apply to the facility for which this application is submitted.</p>                                                                                                                                                                                                     |                                                                                     |             |
| <b>ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |             |
| <p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p> |                                                                                     |             |
| PRINTED NAME<br>Troy Royer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | OFFICIAL TITLE (MUST BE AN OFFICER OF THE COMPANY OR CITY OFFICIAL)<br>City Manager |             |
| SIGNATURE<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                     |             |
| TELEPHONE NUMBER WITH AREA CODE<br>417-451-8050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |             |
| DATE SIGNED<br>7-6-2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |             |
| <p>Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |             |
| <p>Send Completed Form to:</p> <p style="text-align: center;">Department of Natural Resources<br/>Water Protection Program<br/>ATTN: NPDES Permits and Engineering Section<br/>P.O. Box 176<br/>Jefferson City, MO 65102</p>                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |             |
| <b>END OF PART C</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |             |
| <b>REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH PARTS OF FORM B2 YOU MUST COMPLETE.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |             |
| <p>Do not complete the remainder of this application, unless at least one of the following statements applies to your facility:</p> <ol style="list-style-type: none"> <li>1. Your facility design flow is equal to or greater than 1,000,000 gallons per day.</li> <li>2. Your facility is a pretreatment treatment works.</li> <li>3. Your facility is a combined sewer system.</li> </ol>                                                                                                                                                                                                                                                               |                                                                                     |             |
| <p>Submittal of an incomplete application may result in the application being returned. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.</p>                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |             |



**MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL**

|                                               |                           |                    |
|-----------------------------------------------|---------------------------|--------------------|
| FACILITY NAME<br>Shoal Creel Wastewater Plant | PERMIT NO.<br>MO- 0104906 | OUTFALL NO.<br>001 |
|-----------------------------------------------|---------------------------|--------------------|

**PART D – EXPANDED EFFLUENT TESTING DATA**

**16. EXPANDED EFFLUENT TESTING DATA**

Refer to the APPLICATION OVERVIEW to determine whether Part D applies to the treatment works.

If the treatment works has a design flow greater than or equal to 1 million gallons per day or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information **for each outfall through which effluent is discharged**. Do not include information of combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least **three pollutant scans** and must be no more than four and one-half years apart.

Outfall Number (Complete Once for Each Outfall Discharging Effluent to Waters of the State.)

| POLLUTANT                                                        | MAXIMUM DAILY DISCHARGE |       |      |       | AVERAGE DAILY DISCHARGE |       |      |       |                | ANALYTICAL METHOD | ML/MDL |
|------------------------------------------------------------------|-------------------------|-------|------|-------|-------------------------|-------|------|-------|----------------|-------------------|--------|
|                                                                  | Conc.                   | Units | Mass | Units | Conc.                   | Units | Mass | Units | No. of Samples |                   |        |
| <b>METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS AND HARDNESS</b> |                         |       |      |       |                         |       |      |       |                |                   |        |
| ALUMINUM                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ANTIMONY                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ARSENIC                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| BERYLLIUM                                                        |                         |       |      |       |                         |       |      |       |                |                   |        |
| CADMIUM                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHROMIUM III                                                     |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHROMIUM VI                                                      |                         |       |      |       |                         |       |      |       |                |                   |        |
| COPPER                                                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| IRON                                                             |                         |       |      |       |                         |       |      |       |                |                   |        |
| LEAD                                                             |                         |       |      |       |                         |       |      |       |                |                   |        |
| MERCURY                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| NICKEL                                                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| SELENIUM                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| SILVER                                                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| THALLIUM                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ZINC                                                             |                         |       |      |       |                         |       |      |       |                |                   |        |
| CYANIDE                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| TOTAL PHENOLIC COMPOUNDS                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| HARDNESS (as CaCO <sub>3</sub> )                                 |                         |       |      |       |                         |       |      |       |                |                   |        |
| <b>VOLATILE ORGANIC COMPOUNDS</b>                                |                         |       |      |       |                         |       |      |       |                |                   |        |
| ACROLEIN                                                         |                         |       |      |       |                         |       |      |       |                |                   |        |
| ACRYLONITRILE                                                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| BENZENE                                                          |                         |       |      |       |                         |       |      |       |                |                   |        |
| BROMOFORM                                                        |                         |       |      |       |                         |       |      |       |                |                   |        |
| CARBON TETRACHLORIDE                                             |                         |       |      |       |                         |       |      |       |                |                   |        |

\* See attached



**PART D – EXPANDED EFFLUENT TESTING DATA**

**16. EXPANDED EFFLUENT TESTING DATA**

Complete Once for Each Outfall Discharging Effluent to Waters of the State

| POLLUTANT                         | MAXIMUM DAILY DISCHARGE |       |      |       | AVERAGE DAILY DISCHARGE |       |      |       |                | ANALYTICAL METHOD | ML/MDL |
|-----------------------------------|-------------------------|-------|------|-------|-------------------------|-------|------|-------|----------------|-------------------|--------|
|                                   | Conc.                   | Units | Mass | Units | Conc.                   | Units | Mass | Units | No. of Samples |                   |        |
| CHLOROBENZENE                     |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHLORODIBROMO-METHANE             |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHLOROETHANE                      |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2-CHLORO-ETHYL VINYL ETHER        |                         |       |      |       |                         |       |      |       |                |                   |        |
| CHLOROFORM                        |                         |       |      |       |                         |       |      |       |                |                   |        |
| DICHLOROBROMO-METHANE             |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1-DICHLORO-ETHANE               |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,2-DICHLORO-ETHANE               |                         |       |      |       |                         |       |      |       |                |                   |        |
| TRANS-1,2-DICHLOROETHYLENE        |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1-DICHLORO-ETHYLENE             |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,2-DICHLORO-PROPANE              |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,3-DICHLORO-PROPYLENE            |                         |       |      |       |                         |       |      |       |                |                   |        |
| ETHYLBENZENE                      |                         |       |      |       |                         |       |      |       |                |                   |        |
| METHYL BROMIDE                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| METHYL CHLORIDE                   |                         |       |      |       |                         |       |      |       |                |                   |        |
| METHYLENE CHLORIDE                |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1,2,2-TETRA-CHLOROETHANE        |                         |       |      |       |                         |       |      |       |                |                   |        |
| TETRACHLORO-ETHANE                |                         |       |      |       |                         |       |      |       |                |                   |        |
| TOLUENE                           |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1,1-TRICHLORO-ETHANE            |                         |       |      |       |                         |       |      |       |                |                   |        |
| 1,1,2-TRICHLORO-ETHANE            |                         |       |      |       |                         |       |      |       |                |                   |        |
| TRICHLORETHYLENE                  |                         |       |      |       |                         |       |      |       |                |                   |        |
| VINYL CHLORIDE                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| <b>ACID-EXTRACTABLE COMPOUNDS</b> |                         |       |      |       |                         |       |      |       |                |                   |        |
| P-CHLORO-M-CRESOL                 |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2-CHLOROPHENOL                    |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2,4-DICHLOROPHENOL                |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2,4-DIMETHYLPHENOL                |                         |       |      |       |                         |       |      |       |                |                   |        |
| 4,6-DINITRO-O-CRESOL              |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2,4-DINITROPHENOL                 |                         |       |      |       |                         |       |      |       |                |                   |        |
| 2-NITROPHENOL                     |                         |       |      |       |                         |       |      |       |                |                   |        |
| 4-NITROPHENOL                     |                         |       |      |       |                         |       |      |       |                |                   |        |

\* See attached



|               |                              |                           |                    |
|---------------|------------------------------|---------------------------|--------------------|
| FACILITY NAME | Shoal Creek Wastewater Plant | PERMIT NO.<br>MO- 0104906 | OUTFALL NO.<br>001 |
|---------------|------------------------------|---------------------------|--------------------|

**PART D – EXPANDED EFFLUENT TESTING DATA**
**16. EXPANDED EFFLUENT TESTING DATA**

Complete Once for Each Outfall Discharging Effluent to Waters of the State.

| POLLUTANT                          | MAXIMUM DAILY DISCHARGE |       |      |       | AVERAGE DAILY DISCHARGE |       |      |       |                   | ANALYTICAL<br>METHOD | ML/MDL |
|------------------------------------|-------------------------|-------|------|-------|-------------------------|-------|------|-------|-------------------|----------------------|--------|
|                                    | Conc.                   | Units | Mass | Units | Conc.                   | Units | Mass | Units | No. of<br>Samples |                      |        |
| PENTACHLOROPHENOL                  |                         |       |      |       |                         |       |      |       |                   |                      |        |
| PHENOL                             |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 2,4,6-TRICHLOROPHENOL              |                         |       |      |       |                         |       |      |       |                   |                      |        |
| <b>BASE-NEUTRAL COMPOUNDS</b>      |                         |       |      |       |                         |       |      |       |                   |                      |        |
| ACENAPHTHENE                       |                         |       |      |       |                         |       |      |       |                   |                      |        |
| ACENAPHTHYLENE                     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| ANTHRACENE                         |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZIDINE                          |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(A)ANTHRACENE                 |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(A)PYRENE                     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 3,4-BENZO-<br>FLUORANTHENE         |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(GH) PHERYLENE                |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BENZO(K)<br>FLUORANTHENE           |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-CHLOROTHOXY)<br>METHANE     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-CHLOROETHYL) –<br>ETHER     |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-CHLOROISO-<br>PROPYL) ETHER |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BIS (2-ETHYLHEXYL)<br>PHTHALATE    |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 4-BROMOPHENYL<br>PHENYL ETHER      |                         |       |      |       |                         |       |      |       |                   |                      |        |
| BUTYL BENZYL<br>PHTHALATE          |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 2-CHLORONAPH-<br>THALENE           |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 4-CHLORPHENYL<br>PHENYL ETHER      |                         |       |      |       |                         |       |      |       |                   |                      |        |
| CHRYSENE                           |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DI-N-BUTYL PHTHALATE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DI-N-OCTYL PHTHALATE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DIBENZO (A,H)<br>ANTHRACENE        |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 1,2-DICHLORO-BENZENE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 1,3-DICHLORO-BENZENE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 1,4-DICHLORO-BENZENE               |                         |       |      |       |                         |       |      |       |                   |                      |        |
| 3,3-DICHLORO-<br>BENZIDINE         |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DIETHYL PHTHALATE                  |                         |       |      |       |                         |       |      |       |                   |                      |        |
| DIMETHYL PHTHALATE                 |                         |       |      |       |                         |       |      |       |                   |                      |        |

\* See attached







RECEIVED

JUL 18 2016

# ANALYTICAL RESULTS

## Water Protection Program

Project: WET TEST  
Pace Project No.: 60175707

Sample: SHOAL-EFFLUENT (C2 YEARLY) Lab ID: 60175707001 Collected: 08/13/14 08:30 Received: 08/13/14 14:30 Matrix: Water

| Parameters                          | Results  | Units | Report Limit | DF | Prepared | Analyzed       | CAS No. | Qual |
|-------------------------------------|----------|-------|--------------|----|----------|----------------|---------|------|
| Acute Toxicity                      |          |       |              |    |          |                |         |      |
| Analytical Method: EPA 821/R-02/012 |          |       |              |    |          |                |         |      |
| Toxicity, Acute                     | Complete |       | 1.0          | 1  |          | 08/13/14 15:15 |         |      |

Sample: SHOAL EFFLUENT Lab ID: 60175707002 Collected: 08/13/14 08:30 Received: 08/13/14 18:20 Matrix: Water

| Parameters                                              | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------------------------|---------|-------|--------------|----|----------------|----------------|------------|------|
| 608 PCBs                                                |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 608 Preparation Method: EPA 3535 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                 | ND ug/L |       | 1.0          | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 11096-82-5 |      |
| Surrogates                                              |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                | 57 %    |       | 18-119       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 877-09-8   |      |
| Tetrachloro-m-xylene (S)                                | 69 %    |       | 18-119       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 877-09-8   |      |
| Decachlorobiphenyl (S)                                  | 80 %    |       | 10-137       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 2051-24-3  |      |
| Decachlorobiphenyl (S)                                  | 80 %    |       | 10-137       | 1  | 08/19/14 12:11 | 08/22/14 21:22 | 2051-24-3  |      |

|                                                         |         |  |        |   |                |                |            |  |
|---------------------------------------------------------|---------|--|--------|---|----------------|----------------|------------|--|
| 608 GCS Pesticides                                      |         |  |        |   |                |                |            |  |
| Analytical Method: EPA 608 Preparation Method: EPA 3535 |         |  |        |   |                |                |            |  |
| Aldrin                                                  | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 309-00-2   |  |
| alpha-BHC                                               | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 319-84-6   |  |
| beta-BHC                                                | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 319-85-7   |  |
| delta-BHC                                               | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 319-86-8   |  |
| gamma-BHC (Lindane)                                     | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 58-89-9    |  |
| alpha-Chlordane                                         | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 5103-71-9  |  |
| gamma-Chlordane                                         | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 5103-74-2  |  |
| 4,4'-DDD                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 72-54-8    |  |
| 4,4'-DDE                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 72-55-9    |  |
| 4,4'-DDT                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 50-29-3    |  |
| Dieldrin                                                | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 60-57-1    |  |
| Endosulfan I                                            | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 959-98-8   |  |
| Endosulfan II                                           | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 33213-65-9 |  |
| Endosulfan sulfate                                      | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 1031-07-8  |  |
| Endrin                                                  | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 72-20-8    |  |
| Endrin aldehyde                                         | ND ug/L |  | 0.10   | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 7421-93-4  |  |
| Heptachlor                                              | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 76-44-8    |  |
| Heptachlor epoxide                                      | ND ug/L |  | 0.050  | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 1024-57-3  |  |
| Toxaphene                                               | ND ug/L |  | 2.0    | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 8001-35-2  |  |
| Surrogates                                              |         |  |        |   |                |                |            |  |
| Tetrachloro-m-xylene (S)                                | 62 %    |  | 18-119 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 877-09-8   |  |
| Tetrachloro-m-xylene (S)                                | 66 %    |  | 18-119 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 877-09-8   |  |
| Decachlorobiphenyl (S)                                  | 77 %    |  | 10-137 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 2051-24-3  |  |
| Decachlorobiphenyl (S)                                  | 77 %    |  | 10-137 | 1 | 08/19/14 12:10 | 08/21/14 18:28 | 2051-24-3  |  |

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## ANALYTICAL RESULTS

Project: WET TEST  
Pace Project No.: 60175707

| Sample: SHOAL EFFLUENT       |           | Lab ID: 60175707002                                        | Collected: 08/13/14 08:30 | Received: 08/13/14 18:20 | Matrix: Water  |                |            |      |
|------------------------------|-----------|------------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                   | Results   | Units                                                      | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.8 MET ICPMS</b>       |           | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |                           |                          |                |                |            |      |
| Cadmium                      | ND ug/L   |                                                            | 0.50                      | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-43-9  |      |
| Chromium                     | ND ug/L   |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-47-3  |      |
| Copper                       | 1.2 ug/L  |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-50-8  |      |
| Iron                         | ND ug/L   |                                                            | 50.0                      | 1                        | 08/19/14 11:00 | 08/21/14 11:02 | 7439-89-6  |      |
| Lead                         | ND ug/L   |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7439-92-1  |      |
| Nickel                       | 1.5 ug/L  |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-02-0  |      |
| Selenium                     | ND ug/L   |                                                            | 1.0                       | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7782-49-2  |      |
| Zinc                         | 34.2 ug/L |                                                            | 10.0                      | 1                        | 08/19/14 11:00 | 08/20/14 15:00 | 7440-66-6  |      |
| <b>245.1 Mercury</b>         |           | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 |                           |                          |                |                |            |      |
| Mercury                      | ND ug/L   |                                                            | 0.20                      | 1                        | 08/18/14 16:30 | 08/19/14 13:02 | 7439-97-6  |      |
| <b>625 MSSV</b>              |           | Analytical Method: EPA 625 Preparation Method: EPA 625     |                           |                          |                |                |            |      |
| Acenaphthene                 | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 83-32-9    |      |
| Acenaphthylene               | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 208-96-8   |      |
| Anthracene                   | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 120-12-7   |      |
| Benzidine                    | ND ug/L   |                                                            | 50.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 92-87-5    |      |
| Benzo(a)anthracene           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 56-55-3    |      |
| Benzo(a)pyrene               | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 50-32-8    |      |
| Benzo(b)fluoranthene         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 205-99-2   |      |
| Benzo(g,h,i)perylene         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 191-24-2   |      |
| Benzo(k)fluoranthene         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 207-08-9   |      |
| 4-Bromophenylphenyl ether    | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 101-55-3   |      |
| Butylbenzylphthalate         | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 85-68-7    |      |
| 4-Chloro-3-methylphenol      | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 59-50-7    |      |
| bis(2-Chloroethoxy)methane   | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 111-91-1   |      |
| bis(2-Chloroethyl) ether     | ND ug/L   |                                                            | 6.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 111-44-4   |      |
| bis(2-Chloroisopropyl) ether | ND ug/L   |                                                            | 6.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 39638-32-9 |      |
| 2-Chloronaphthalene          | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 91-58-7    |      |
| 2-Chlorophenol               | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether   | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 7005-72-3  |      |
| Chrysene                     | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 218-01-9   |      |
| Dibenz(a,h)anthracene        | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 53-70-3    |      |
| 3,3'-Dichlorobenzidine       | ND ug/L   |                                                            | 20.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 91-94-1    |      |
| 2,4-Dichlorophenol           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 120-83-2   |      |
| Diethylphthalate             | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 84-66-2    |      |
| 2,4-Dimethylphenol           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 105-67-9   |      |
| Dimethylphthalate            | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 131-11-3   |      |
| Di-n-butylphthalate          | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol   | ND ug/L   |                                                            | 25.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 534-52-1   |      |
| 2,4-Dinitrophenol            | ND ug/L   |                                                            | 50.0                      | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 51-28-5    |      |
| 2,4-Dinitrotoluene           | ND ug/L   |                                                            | 6.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 121-14-2   |      |
| 2,6-Dinitrotoluene           | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 606-20-2   |      |
| Di-n-octylphthalate          | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate   | 8.4 ug/L  |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 117-81-7   |      |
| Fluoranthene                 | ND ug/L   |                                                            | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 206-44-0   |      |

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## ANALYTICAL RESULTS

Project: WET TEST  
Pace Project No.: 60175707

| Sample: SHOAL EFFLUENT                |         | Lab ID: 60175707002                                    | Collected: 08/13/14 08:30 | Received: 08/13/14 18:20 | Matrix: Water  |                |            |      |
|---------------------------------------|---------|--------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                            | Results | Units                                                  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>625 MSSV</b>                       |         | Analytical Method: EPA 625 Preparation Method: EPA 625 |                           |                          |                |                |            |      |
| Fluorene                              | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 86-73-7    |      |
| Hexachloro-1,3-butadiene              | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 87-68-3    |      |
| Hexachlorobenzene                     | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 118-74-1   |      |
| Hexachlorocyclopentadiene             | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 77-47-4    |      |
| Hexachloroethane                      | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 193-39-5   |      |
| Isophorone                            | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 78-59-1    |      |
| Naphthalene                           | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 91-20-3    |      |
| Nitrobenzene                          | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 98-95-3    |      |
| 2-Nitrophenol                         | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 88-75-5    |      |
| 4-Nitrophenol                         | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 100-02-7   |      |
| N-Nitrosodimethylamine                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine            | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 621-64-7   |      |
| N-Nitrosodiphenylamine                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 86-30-6    |      |
| Pentachlorophenol                     | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 87-86-5    |      |
| Phenanthrene                          | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 85-01-8    |      |
| Phenol                                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 108-95-2   |      |
| Pyrene                                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene                | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 120-82-1   |      |
| 2,4,6-Trichlorophenol                 | ND ug/L |                                                        | 5.0                       | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 88-06-2    |      |
| <b>Surrogates</b>                     |         |                                                        |                           |                          |                |                |            |      |
| Nitrobenzene-d5 (S)                   | 60 %    |                                                        | 33-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)                  | 65 %    |                                                        | 39-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 321-60-8   |      |
| Terphenyl-d14 (S)                     | 80 %    |                                                        | 45-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 1718-51-0  |      |
| Phenol-d6 (S)                         | 15 %    |                                                        | 11-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 13127-88-3 |      |
| 2-Fluorophenol (S)                    | 26 %    |                                                        | 17-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 367-12-4   |      |
| 2,4,6-Tribromophenol (S)              | 65 %    |                                                        | 39-120                    | 1                        | 08/15/14 00:00 | 08/18/14 12:15 | 118-79-6   |      |
| <b>624 Volatile Organics</b>          |         | Analytical Method: EPA 624 Low                         |                           |                          |                |                |            |      |
| 1,2-Dichloroethane                    | ND ug/L |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 | 107-06-2   |      |
| 1,1,1-Trichloroethane                 | ND ug/L |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 | 71-55-6    |      |
| 1,1,2-Trichloroethane                 | ND ug/L |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 | 79-00-5    |      |
| <b>Surrogates</b>                     |         |                                                        |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)              | 100 %   |                                                        | 80-120                    | 1                        |                | 08/18/14 17:15 | 460-00-4   |      |
| Toluene-d8 (S)                        | 101 %   |                                                        | 80-120                    | 1                        |                | 08/18/14 17:15 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)             | 95 %    |                                                        | 80-120                    | 1                        |                | 08/18/14 17:15 | 17060-07-0 |      |
| Preservation pH                       | 6.0     |                                                        | 1.0                       | 1                        |                | 08/18/14 17:15 |            |      |
| <b>Trivalent Chromium Calculation</b> |         | Analytical Method: Trivalent Chromium Calculation      |                           |                          |                |                |            |      |
| Chromium, Trivalent                   | ND mg/L |                                                        | 0.010                     | 1                        |                | 08/22/14 08:23 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b>           |         | Analytical Method: SM 3500-Cr B                        |                           |                          |                |                |            |      |
| Chromium, Hexavalent                  | ND mg/L |                                                        | 0.010                     | 1                        |                | 08/14/14 08:17 | 18540-29-9 |      |
| <b>350.1 Ammonia</b>                  |         | Analytical Method: EPA 350.1                           |                           |                          |                |                |            |      |
| Nitrogen, Ammonia                     | ND mg/L |                                                        | 0.10                      | 1                        |                | 08/20/14 12:34 | 7664-41-7  |      |

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## ANALYTICAL RESULTS

Project: WET TEST

Pace Project No.: 60175707

| Sample: SHOAL EFFLUENT              |                                 | Lab ID: 60175707002 | Collected: 08/13/14 08:30 | Received: 08/13/14 18:20 | Matrix: Water |                |         |      |
|-------------------------------------|---------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|---------|------|
| Parameters                          | Results                         | Units               | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No. | Qual |
| <b>Phenolics, Total Recoverable</b> | Analytical Method: EPA 420.1    |                     |                           |                          |               |                |         |      |
| Phenolics, Total Recoverable        | ND                              | mg/L                | 0.050                     | 1                        |               | 08/21/14 16:14 |         |      |
| <b>4500CNE Cyanide, Total</b>       | Analytical Method: SM 4500-CN-E |                     |                           |                          |               |                |         |      |
| Cyanide                             | ND                              | mg/L                | 0.0050                    | 1                        |               | 08/20/14 23:22 | 57-12-5 |      |

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## ANALYTICAL RESULTS

Project: SHOAL YEARLY  
Pace Project No.: 60200398

**Sample: YEARLY SHOAL EFFLUENT**      **Lab ID: 60200398001**      Collected: 08/12/15 08:45      Received: 08/12/15 15:15      Matrix: Water

| Parameters                                                | Results         | Units | Report Limit | MDL | DF | Prepared | Analyzed       | CAS No. | Qual |
|-----------------------------------------------------------|-----------------|-------|--------------|-----|----|----------|----------------|---------|------|
| <b>Acute Toxicity</b> Analytical Method: EPA 821/R-02/012 |                 |       |              |     |    |          |                |         |      |
| Toxicity, Acute                                           | <b>Complete</b> |       | 1.0          | 1.0 | 1  |          | 08/12/15 15:30 |         |      |

**Sample: YEARLY SHOAL EFFLUENT**      **Lab ID: 60200398002**      Collected: 08/12/15 08:45      Received: 08/12/15 20:00      Matrix: Water

| Parameters                                                                   | Results | Units | Report Limit | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------------------------------------------------------|---------|-------|--------------|------|----|----------------|----------------|------------|------|
| <b>608 PCBs</b> Analytical Method: EPA 608      Preparation Method: EPA 3535 |         |       |              |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                                      | ND      | ug/L  | 0.20         | 0.10 | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 11096-82-5 |      |
| <b>Surrogates</b>                                                            |         |       |              |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                                     | 65      | %     | 18-119       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 877-09-8   |      |
| Tetrachloro-m-xylene (S)                                                     | 87      | %     | 18-119       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 877-09-8   |      |
| Decachlorobiphenyl (S)                                                       | 94      | %     | 10-137       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 2051-24-3  |      |
| Decachlorobiphenyl (S)                                                       | 96      | %     | 10-137       |      | 1  | 08/19/15 13:34 | 08/19/15 19:55 | 2051-24-3  |      |

|                                                                                        |    |      |        |        |   |                |                |            |  |
|----------------------------------------------------------------------------------------|----|------|--------|--------|---|----------------|----------------|------------|--|
| <b>608 GCS Pesticides</b> Analytical Method: EPA 608      Preparation Method: EPA 3535 |    |      |        |        |   |                |                |            |  |
| Aldrin                                                                                 | ND | ug/L | 0.010  | 0.0050 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 309-00-2   |  |
| alpha-BHC                                                                              | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 319-84-6   |  |
| beta-BHC                                                                               | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 319-85-7   |  |
| delta-BHC                                                                              | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 319-86-8   |  |
| gamma-BHC (Lindane)                                                                    | ND | ug/L | 0.050  | 0.025  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 58-89-9    |  |
| Chlordane (Technical)                                                                  | ND | ug/L | 0.20   | 0.10   | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 57-74-9    |  |
| 4,4'-DDD                                                                               | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 72-54-8    |  |
| 4,4'-DDE                                                                               | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 72-55-9    |  |
| 4,4'-DDT                                                                               | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 50-29-3    |  |
| Dieldrin                                                                               | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 60-57-1    |  |
| Endosulfan I                                                                           | ND | ug/L | 0.010  | 0.0080 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 959-98-8   |  |
| Endosulfan II                                                                          | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 33213-65-9 |  |
| Endosulfan sulfate                                                                     | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 1031-07-8  |  |
| Endrin                                                                                 | ND | ug/L | 0.020  | 0.010  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 72-20-8    |  |
| Endrin aldehyde                                                                        | ND | ug/L | 0.10   | 0.050  | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 7421-93-4  |  |
| Heptachlor                                                                             | ND | ug/L | 0.010  | 0.0050 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 76-44-8    |  |
| Heptachlor epoxide                                                                     | ND | ug/L | 0.010  | 0.0060 | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 1024-57-3  |  |
| Toxaphene                                                                              | ND | ug/L | 0.30   | 0.15   | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 8001-35-2  |  |
| <b>Surrogates</b>                                                                      |    |      |        |        |   |                |                |            |  |
| Tetrachloro-m-xylene (S)                                                               | 73 | %    | 18-119 |        | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 877-09-8   |  |
| Tetrachloro-m-xylene (S)                                                               | 71 | %    | 18-119 |        | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 877-09-8   |  |
| Decachlorobiphenyl (S)                                                                 | 82 | %    | 10-137 |        | 1 | 08/19/15 13:40 | 08/19/15 20:42 | 2051-24-3  |  |

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## ANALYTICAL RESULTS

Project: SHOAL YEARLY  
Pace Project No.: 60200398

**Sample:** YEARLY SHOAL EFFLUENT      **Lab ID:** 60200398002      **Collected:** 08/12/15 08:45      **Received:** 08/12/15 20:00      **Matrix:** Water

| Parameters                                                                           | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--------------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>608 GCS Pesticides</b> Analytical Method: EPA 608    Preparation Method: EPA 3535 |         |       |              |       |    |                |                |            |      |
| <b>Surrogates</b>                                                                    |         |       |              |       |    |                |                |            |      |
| Decachlorobiphenyl (S)                                                               | 112     | %     | 10-137       |       | 1  | 08/19/15 13:40 | 08/19/15 20:42 | 2051-24-3  |      |
| <b>200.8 MET ICPMS</b> Analytical Method: EPA 200.8    Preparation Method: EPA 200.8 |         |       |              |       |    |                |                |            |      |
| Arsenic                                                                              | ND      | ug/L  | 1.0          | 0.25  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-38-2  |      |
| Cadmium                                                                              | ND      | ug/L  | 0.50         | 0.082 | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-43-9  |      |
| Copper                                                                               | 0.63J   | ug/L  | 1.0          | 0.21  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-50-8  |      |
| Lead                                                                                 | 0.46J   | ug/L  | 1.0          | 0.23  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7439-92-1  | B    |
| Molybdenum                                                                           | 1.0     | ug/L  | 1.0          | 0.12  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7439-98-7  |      |
| Nickel                                                                               | 2.0     | ug/L  | 1.0          | 0.39  | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-02-0  |      |
| Silver                                                                               | ND      | ug/L  | 0.50         | 0.054 | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-22-4  |      |
| Zinc                                                                                 | 10.6    | ug/L  | 10.0         | 4.5   | 1  | 08/13/15 16:05 | 08/14/15 11:59 | 7440-66-6  |      |
| <b>245.1 Mercury</b> Analytical Method: EPA 245.1    Preparation Method: EPA 245.1   |         |       |              |       |    |                |                |            |      |
| Mercury                                                                              | 0.065J  | ug/L  | 0.20         | 0.012 | 1  | 08/17/15 09:00 | 08/17/15 15:07 | 7439-97-6  |      |
| <b>625 MSSV</b> Analytical Method: EPA 625    Preparation Method: EPA 625            |         |       |              |       |    |                |                |            |      |
| Acenaphthene                                                                         | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 83-32-9    |      |
| Acenaphthylene                                                                       | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 208-96-8   |      |
| Anthracene                                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 120-12-7   |      |
| Benzidine                                                                            | ND      | ug/L  | 50.0         | 25.0  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 92-87-5    | M1   |
| Benzo(a)anthracene                                                                   | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 56-55-3    |      |
| Benzo(a)pyrene                                                                       | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 50-32-8    |      |
| Benzo(b)fluoranthene                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 191-24-2   |      |
| Benzo(k)fluoranthene                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 207-08-9   |      |
| 4-Bromophenylphenyl ether                                                            | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 101-55-3   |      |
| Butylbenzylphthalate                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                                              | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 59-50-7    |      |
| bis(2-Chloroethoxy)methane                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                                             | ND      | ug/L  | 6.0          | 3.0   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 111-44-4   |      |
| bis(2-Chloroisopropyl) ether                                                         | ND      | ug/L  | 6.0          | 3.0   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 39638-32-9 |      |
| 2-Chloronaphthalene                                                                  | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 91-58-7    |      |
| 2-Chlorophenol                                                                       | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 7005-72-3  |      |
| Chrysene                                                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                                                | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 53-70-3    |      |
| 3,3'-Dichlorobenzidine                                                               | ND      | ug/L  | 20.0         | 10.0  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 91-94-1    |      |
| 2,4-Dichlorophenol                                                                   | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 120-83-2   |      |
| Diethylphthalate                                                                     | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 84-66-2    |      |
| 2,4-Dimethylphenol                                                                   | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 105-67-9   |      |
| Dimethylphthalate                                                                    | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 131-11-3   |      |
| Di-n-butylphthalate                                                                  | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol                                                           | ND      | ug/L  | 25.0         | 12.5  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 534-52-1   |      |
| 2,4-Dinitrophenol                                                                    | ND      | ug/L  | 50.0         | 25.0  | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 51-28-5    |      |

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## ANALYTICAL RESULTS

Project: SHOAL YEARLY  
Pace Project No.: 60200398

Sample: YEARLY SHOAL EFFLUENT Lab ID: 60200398002 Collected: 08/12/15 08:45 Received: 08/12/15 20:00 Matrix: Water

| Parameters                                                             | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>625 MSSV</b> Analytical Method: EPA 625 Preparation Method: EPA 625 |         |       |              |       |    |                |                |            |      |
| 2,4-Dinitrotoluene                                                     | ND      | ug/L  | 6.0          | 3.0   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 121-14-2   |      |
| 2,6-Dinitrotoluene                                                     | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 606-20-2   |      |
| Di-n-octylphthalate                                                    | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 117-81-7   |      |
| Fluoranthene                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 206-44-0   |      |
| Fluorene                                                               | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 86-73-7    |      |
| Hexachloro-1,3-butadiene                                               | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 87-68-3    |      |
| Hexachlorobenzene                                                      | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 118-74-1   |      |
| Hexachlorocyclopentadiene                                              | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 77-47-4    |      |
| Hexachloroethane                                                       | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 193-39-5   |      |
| Isophorone                                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 78-59-1    |      |
| Naphthalene                                                            | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 91-20-3    |      |
| Nitrobenzene                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 98-95-3    |      |
| 2-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 88-75-5    |      |
| 4-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 100-02-7   |      |
| N-Nitrosodimethylamine                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine                                             | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 621-64-7   |      |
| N-Nitrosodiphenylamine                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 86-30-6    |      |
| Pentachlorophenol                                                      | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 87-86-5    |      |
| Phenanthrene                                                           | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 85-01-8    |      |
| Phenol                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 108-95-2   |      |
| Pyrene                                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene                                                 | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 120-82-1   |      |
| 2,4,6-Trichlorophenol                                                  | ND      | ug/L  | 5.0          | 2.5   | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 88-06-2    |      |
| <b>Surrogates</b>                                                      |         |       |              |       |    |                |                |            |      |
| Nitrobenzene-d5 (S)                                                    | 80      | %     | 33-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)                                                   | 74      | %     | 39-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 321-60-8   |      |
| Terphenyl-d14 (S)                                                      | 80      | %     | 45-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 1718-51-0  |      |
| Phenol-d6 (S)                                                          | 32      | %     | 11-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 13127-88-3 |      |
| 2-Fluorophenol (S)                                                     | 45      | %     | 17-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 367-12-4   |      |
| 2,4,6-Tribromophenol (S)                                               | 90      | %     | 39-120       |       | 1  | 08/17/15 00:00 | 08/18/15 17:49 | 118-79-6   |      |
| <b>350.1 Ammonia</b> Analytical Method: EPA 350.1                      |         |       |              |       |    |                |                |            |      |
| Nitrogen, Ammonia                                                      | 7.7     | mg/L  | 0.50         | 0.23  | 5  |                | 08/19/15 14:52 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b> Analytical Method: EPA 420.1       |         |       |              |       |    |                |                |            |      |
| Phenolics, Total Recoverable                                           | ND      | mg/L  | 0.050        | 0.020 | 1  |                | 08/18/15 12:42 |            |      |

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# ANALYTICAL RESULTS

Water Protection Program

Project: SHOAL BIOSOLIDS  
Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS Lab ID: 60150608001 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters                                                                                     | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------------------------------------------------------------------------|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP Red. Interference</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |           |      |
| Arsenic                                                                                        | ND      | mg/kg | 4.3          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-38-2 |      |
| Cadmium                                                                                        | 4.5     | mg/kg | 2.1          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-43-9 |      |
| Chromium                                                                                       | 25.6    | mg/kg | 2.1          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-47-3 |      |
| Copper                                                                                         | 194     | mg/kg | 4.3          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-50-8 |      |
| Lead                                                                                           | 65.0    | mg/kg | 4.3          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7439-92-1 |      |
| Molybdenum                                                                                     | ND      | mg/kg | 8.6          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7439-98-7 |      |
| Nickel                                                                                         | 20.3    | mg/kg | 2.1          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-02-0 |      |
| Potassium                                                                                      | 2670    | mg/kg | 214          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-09-7 | B    |
| Selenium                                                                                       | 8.1     | mg/kg | 6.4          | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7782-49-2 |      |
| Zinc                                                                                           | 1510    | mg/kg | 42.9         | 1  | 08/12/13 11:45 | 08/13/13 11:26 | 7440-66-6 |      |

## 6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 08/16/13 00:00

|          |    |      |       |   |                |                |           |  |
|----------|----|------|-------|---|----------------|----------------|-----------|--|
| Arsenic  | ND | mg/L | 0.50  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-38-2 |  |
| Barium   | ND | mg/L | 2.5   | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-39-3 |  |
| Cadmium  | ND | mg/L | 0.050 | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-43-9 |  |
| Chromium | ND | mg/L | 0.10  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-47-3 |  |
| Lead     | ND | mg/L | 0.50  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7439-92-1 |  |
| Selenium | ND | mg/L | 0.50  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7782-49-2 |  |
| Silver   | ND | mg/L | 0.10  | 1 | 08/16/13 00:00 | 08/19/13 10:58 | 7440-22-4 |  |

## 7470 Mercury, TCLP

Analytical Method: EPA 7470 Preparation Method: EPA 7470

Leachate Method/Date: EPA 1311; 08/16/13 00:00

|         |    |      |        |   |                |                |           |  |
|---------|----|------|--------|---|----------------|----------------|-----------|--|
| Mercury | ND | mg/L | 0.0020 | 1 | 08/19/13 17:00 | 08/20/13 10:23 | 7439-97-6 |  |
|---------|----|------|--------|---|----------------|----------------|-----------|--|

## 7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

|         |     |       |      |   |                |                |           |  |
|---------|-----|-------|------|---|----------------|----------------|-----------|--|
| Mercury | 1.7 | mg/kg | 0.19 | 1 | 08/13/13 09:45 | 08/13/13 13:09 | 7439-97-6 |  |
|---------|-----|-------|------|---|----------------|----------------|-----------|--|

## 8270 MSSV TCLP Sep Funnel

Analytical Method: EPA 8270 Preparation Method: EPA 3510

Leachate Method/Date: EPA 1311; 08/16/13 00:00

|                              |    |      |        |   |                |                |           |  |
|------------------------------|----|------|--------|---|----------------|----------------|-----------|--|
| 1,4-Dichlorobenzene          | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 106-46-7  |  |
| 2,4-Dinitrotoluene           | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 121-14-2  |  |
| Hexachloro-1,3-butadiene     | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 87-68-3   |  |
| Hexachlorobenzene            | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 118-74-1  |  |
| Hexachloroethane             | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 67-72-1   |  |
| 2-Methylphenol(o-Cresol)     | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 95-48-7   |  |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 200    | 1 | 08/19/13 00:00 | 08/20/13 00:56 |           |  |
| Nitrobenzene                 | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 98-95-3   |  |
| Pentachlorophenol            | ND | ug/L | 500    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 87-86-5   |  |
| Pyridine                     | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 110-86-1  |  |
| 2,4,5-Trichlorophenol        | ND | ug/L | 500    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 95-95-4   |  |
| 2,4,6-Trichlorophenol        | ND | ug/L | 100    | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 88-06-2   |  |
| <b>Surrogates</b>            |    |      |        |   |                |                |           |  |
| Nitrobenzene-d5 (S)          | 78 | %    | 42-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 4165-60-0 |  |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS  
Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS      Lab ID: 60150608001      Collected: 08/07/13 07:00      Received: 08/07/13 18:30      Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

### 8270 MSSV TCLP Sep Funnel

Analytical Method: EPA 8270 Preparation Method: EPA 3510

Leachate Method/Date: EPA 1311; 08/16/13 00:00

#### Surrogates

|                          |      |  |        |   |                |                |            |  |
|--------------------------|------|--|--------|---|----------------|----------------|------------|--|
| 2-Fluorobiphenyl (S)     | 79 % |  | 43-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 321-60-8   |  |
| Terphenyl-d14 (S)        | 84 % |  | 38-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 1718-51-0  |  |
| Phenol-d6 (S)            | 79 % |  | 41-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 13127-88-3 |  |
| 2-Fluorophenol (S)       | 74 % |  | 40-120 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 367-12-4   |  |
| 2,4,6-Tribromophenol (S) | 80 % |  | 38-126 | 1 | 08/19/13 00:00 | 08/20/13 00:56 | 118-79-6   |  |

### 8260 MSV TCLP

Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 08/16/13 00:00

|                      |         |  |      |   |  |                |          |  |
|----------------------|---------|--|------|---|--|----------------|----------|--|
| Benzene              | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 71-43-2  |  |
| 2-Butanone (MEK)     | ND ug/L |  | 1000 | 1 |  | 08/19/13 18:58 | 78-93-3  |  |
| Carbon tetrachloride | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 56-23-5  |  |
| Chlorobenzene        | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 108-90-7 |  |
| Chloroform           | ND ug/L |  | 200  | 1 |  | 08/19/13 18:58 | 67-66-3  |  |
| 1,2-Dichloroethane   | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 107-06-2 |  |
| 1,1-Dichloroethene   | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 75-35-4  |  |
| Tetrachloroethene    | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 127-18-4 |  |
| Trichloroethene      | ND ug/L |  | 50.0 | 1 |  | 08/19/13 18:58 | 79-01-6  |  |
| Vinyl chloride       | ND ug/L |  | 100  | 1 |  | 08/19/13 18:58 | 75-01-4  |  |

#### Surrogates

|                           |       |  |        |   |  |                |            |  |
|---------------------------|-------|--|--------|---|--|----------------|------------|--|
| 1,2-Dichloroethane-d4 (S) | 101 % |  | 80-120 | 1 |  | 08/19/13 18:58 | 17060-07-0 |  |
| Toluene-d8 (S)            | 100 % |  | 80-120 | 1 |  | 08/19/13 18:58 | 2037-26-5  |  |
| 4-Bromofluorobenzene (S)  | 97 %  |  | 80-120 | 1 |  | 08/19/13 18:58 | 460-00-4   |  |

### 8260/5035A Volatile Organics

Analytical Method: EPA 8260

|                             |          |  |     |   |  |                |          |  |
|-----------------------------|----------|--|-----|---|--|----------------|----------|--|
| Acetone                     | ND ug/kg |  | 519 | 1 |  | 08/19/13 15:56 | 67-64-1  |  |
| Benzene                     | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 71-43-2  |  |
| Bromobenzene                | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 108-86-1 |  |
| Bromochloromethane          | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 74-97-5  |  |
| Bromodichloromethane        | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-27-4  |  |
| Bromoform                   | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-25-2  |  |
| Bromomethane                | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 74-83-9  |  |
| 2-Butanone (MEK)            | ND ug/kg |  | 259 | 1 |  | 08/19/13 15:56 | 78-93-3  |  |
| n-Butylbenzene              | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 104-51-8 |  |
| sec-Butylbenzene            | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 135-98-8 |  |
| tert-Butylbenzene           | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 98-06-6  |  |
| Carbon disulfide            | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-15-0  |  |
| Carbon tetrachloride        | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 56-23-5  |  |
| Chlorobenzene               | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 108-90-7 |  |
| Chloroethane                | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 75-00-3  |  |
| Chloroform                  | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 67-66-3  |  |
| Chloromethane               | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 74-87-3  |  |
| 2-Chlorotoluene             | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 95-49-8  |  |
| 4-Chlorotoluene             | ND ug/kg |  | 130 | 1 |  | 08/19/13 15:56 | 106-43-4 |  |
| 1,2-Dibromo-3-chloropropane | ND ug/kg |  | 259 | 1 |  | 08/19/13 15:56 | 96-12-8  |  |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS

Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS Lab ID: 60150608001 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters                          | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-------------------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260/5035A Volatile Organics</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Dibromochloromethane                | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 106-93-4   |      |
| Dibromomethane                      | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 106-46-7   |      |
| Dichlorodifluoromethane             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-71-8    |      |
| 1,1-Dichloroethane                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-34-3    |      |
| 1,2-Dichloroethane                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)          | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 540-59-0   |      |
| 1,1-Dichloroethene                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene            | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 156-60-5   |      |
| 1,2-Dichloropropane                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 78-87-5    |      |
| 1,3-Dichloropropane                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 142-28-9   |      |
| 2,2-Dichloropropane                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 594-20-7   |      |
| 1,1-Dichloropropene                 | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 563-58-6   |      |
| cis-1,3-Dichloropropene             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 10061-02-6 |      |
| Ethylbenzene                        | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 100-41-4   |      |
| Hexachloro-1,3-butadiene            | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 87-68-3    |      |
| 2-Hexanone                          | ND      | ug/kg                       | 519          | 1  |          | 08/19/13 15:56 | 591-78-6   |      |
| Isopropylbenzene (Cumene)           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 98-82-8    |      |
| p-Isopropyltoluene                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 99-87-6    |      |
| Methylene chloride                  | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)         | ND      | ug/kg                       | 259          | 1  |          | 08/19/13 15:56 | 108-10-1   |      |
| Methyl-tert-butyl ether             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 1634-04-4  |      |
| Naphthalene                         | ND      | ug/kg                       | 259          | 1  |          | 08/19/13 15:56 | 91-20-3    |      |
| n-Propylbenzene                     | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 103-65-1   |      |
| Styrene                             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane           | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 79-34-5    |      |
| Tetrachloroethene                   | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 127-18-4   |      |
| Toluene                             | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 120-82-1   |      |
| 1,1,1-Trichloroethane               | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 71-55-6    |      |
| 1,1,2-Trichloroethane               | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 79-00-5    |      |
| Trichloroethene                     | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 79-01-6    |      |
| Trichlorofluoromethane              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-69-4    |      |
| 1,2,3-Trichloropropane              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 96-18-4    |      |
| 1,2,4-Trimethylbenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene              | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 108-67-8   |      |
| Vinyl chloride                      | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 75-01-4    |      |
| Xylene (Total)                      | ND      | ug/kg                       | 130          | 1  |          | 08/19/13 15:56 | 1330-20-7  |      |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS

Pace Project No.: 60150608

Sample: SHOAL BIOSOLIDS Lab ID: 60150608001 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Solid  
YEARLY'S

Results reported on a "dry-weight" basis

| Parameters                   | Results    | Units                                 | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------|------------|---------------------------------------|--------------|----|----------|----------------|------------|------|
| 8260/5035A Volatile Organics |            | Analytical Method: EPA 8260           |              |    |          |                |            |      |
| Surrogates                   |            |                                       |              |    |          |                |            |      |
| Toluene-d8 (S)               | 97 %       |                                       | 80-120       | 1  |          | 08/19/13 15:56 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)     | 91 %       |                                       | 80-120       | 1  |          | 08/19/13 15:56 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)    | 90 %       |                                       | 76-132       | 1  |          | 08/19/13 15:56 | 17060-07-0 |      |
| Percent Moisture             |            | Analytical Method: ASTM D2974         |              |    |          |                |            |      |
| Percent Moisture             | 96.2 %     |                                       | 0.50         | 1  |          | 08/13/13 00:00 |            |      |
| Phenolics, Total Recoverable |            | Analytical Method: EPA 420.1 Modified |              |    |          |                |            |      |
| Phenolics, Total Recoverable | 44.8 mg/kg |                                       | 42.4         | 1  |          | 08/15/13 14:19 |            |      |
| 4500CNE Cyanide, Total       |            | Analytical Method: SM 4500-CN-E       |              |    |          |                |            |      |
| Cyanide                      | ND mg/kg   |                                       | 4.3          | 1  |          | 08/12/13 10:59 | 57-12-5    |      |

Sample: TRIP BLANK Lab ID: 60150608002 Collected: 08/07/13 07:00 Received: 08/07/13 18:30 Matrix: Water

| Parameters                  | Results | Units                             | Report Limit | DF | Prepared | Analyzed       | CAS No.  | Qual |
|-----------------------------|---------|-----------------------------------|--------------|----|----------|----------------|----------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 5030B/8260 |              |    |          |                |          |      |
| Acetone                     | ND ug/L |                                   | 10.0         | 1  |          | 08/20/13 18:04 | 67-64-1  | H1   |
| Benzene                     | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 71-43-2  | H1   |
| Bromobenzene                | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 108-86-1 | H1   |
| Bromochloromethane          | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 74-97-5  | H1   |
| Bromodichloromethane        | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 75-27-4  | H1   |
| Bromoform                   | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 75-25-2  | H1   |
| Bromomethane                | ND ug/L |                                   | 5.0          | 1  |          | 08/20/13 18:04 | 74-83-9  | H1   |
| 2-Butanone (MEK)            | ND ug/L |                                   | 10.0         | 1  |          | 08/20/13 18:04 | 78-93-3  | H1   |
| n-Butylbenzene              | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 104-51-8 | H1   |
| sec-Butylbenzene            | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 135-98-8 | H1   |
| tert-Butylbenzene           | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 98-06-6  | H1   |
| Carbon disulfide            | ND ug/L |                                   | 5.0          | 1  |          | 08/20/13 18:04 | 75-15-0  | H1   |
| Carbon tetrachloride        | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 56-23-5  | H1   |
| Chlorobenzene               | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 108-90-7 | H1   |
| Chloroethane                | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 75-00-3  | H1   |
| Chloroform                  | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 67-66-3  | H1   |
| Chloromethane               | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 74-87-3  | H1   |
| 2-Chlorotoluene             | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 95-49-8  | H1   |
| 4-Chlorotoluene             | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 106-43-4 | H1   |
| 1,2-Dibromo-3-chloropropane | ND ug/L |                                   | 2.5          | 1  |          | 08/20/13 18:04 | 96-12-8  | H1   |
| Dibromochloromethane        | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 124-48-1 | H1   |
| 1,2-Dibromoethane (EDB)     | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 106-93-4 | H1   |
| Dibromomethane              | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 74-95-3  | H1   |
| 1,2-Dichlorobenzene         | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 95-50-1  | H1   |
| 1,3-Dichlorobenzene         | ND ug/L |                                   | 1.0          | 1  |          | 08/20/13 18:04 | 541-73-1 | H1   |

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## ANALYTICAL RESULTS

Project: SHOAL BIOSOLIDS

Pace Project No.: 60150608

| Sample: TRIP BLANK          |         | Lab ID: 60150608002               | Collected: 08/07/13 07:00 | Received: 08/07/13 18:30 | Matrix: Water |                |            |      |
|-----------------------------|---------|-----------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                  | Results | Units                             | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 5030B/8260 |                           |                          |               |                |            |      |
| 1,4-Dichlorobenzene         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 106-46-7   | H1   |
| Dichlorodifluoromethane     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-71-8    | H1   |
| 1,1-Dichloroethane          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-34-3    | H1   |
| 1,2-Dichloroethane          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 107-06-2   | H1   |
| 1,2-Dichloroethene (Total)  | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 540-59-0   | H1   |
| 1,1-Dichloroethene          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-35-4    | H1   |
| cis-1,2-Dichloroethene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 156-59-2   | H1   |
| trans-1,2-Dichloroethene    | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 156-60-5   | H1   |
| 1,2-Dichloropropane         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 78-87-5    | H1   |
| 1,3-Dichloropropane         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 142-28-9   | H1   |
| 2,2-Dichloropropane         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 594-20-7   | H1   |
| 1,1-Dichloropropene         | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 563-58-6   | H1   |
| cis-1,3-Dichloropropene     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 10061-01-5 | H1   |
| trans-1,3-Dichloropropene   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 10061-02-6 | H1   |
| Ethylbenzene                | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 100-41-4   | H1   |
| Hexachloro-1,3-butadiene    | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 87-68-3    | H1   |
| 2-Hexanone                  | ND ug/L |                                   | 10.0                      | 1                        |               | 08/20/13 18:04 | 591-78-6   | H1   |
| Isopropylbenzene (Cumene)   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 98-82-8    | H1   |
| p-Isopropyltoluene          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 99-87-6    | H1   |
| Methylene chloride          | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-09-2    | H1   |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L |                                   | 10.0                      | 1                        |               | 08/20/13 18:04 | 108-10-1   | H1   |
| Methyl-tert-butyl ether     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 1634-04-4  | H1   |
| Naphthalene                 | ND ug/L |                                   | 10.0                      | 1                        |               | 08/20/13 18:04 | 91-20-3    | H1   |
| n-Propylbenzene             | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 103-65-1   | H1   |
| Styrene                     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 100-42-5   | H1   |
| 1,1,1,2-Tetrachloroethane   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 630-20-6   | H1   |
| 1,1,2,2-Tetrachloroethane   | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 79-34-5    | H1   |
| Tetrachloroethene           | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 127-18-4   | H1   |
| Toluene                     | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 108-88-3   | H1   |
| 1,2,3-Trichlorobenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 87-61-6    | H1   |
| 1,2,4-Trichlorobenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 120-82-1   | H1   |
| 1,1,1-Trichloroethane       | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 71-55-6    | H1   |
| 1,1,2-Trichloroethane       | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 79-00-5    | H1   |
| Trichloroethene             | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 79-01-6    | H1   |
| Trichlorofluoromethane      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-69-4    | H1   |
| 1,2,3-Trichloropropane      | ND ug/L |                                   | 2.5                       | 1                        |               | 08/20/13 18:04 | 96-18-4    | H1   |
| 1,2,4-Trimethylbenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 95-63-6    | H1   |
| 1,3,5-Trimethylbenzene      | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 108-67-8   | H1   |
| Vinyl chloride              | ND ug/L |                                   | 1.0                       | 1                        |               | 08/20/13 18:04 | 75-01-4    | H1   |
| Xylene (Total)              | ND ug/L |                                   | 3.0                       | 1                        |               | 08/20/13 18:04 | 1330-20-7  |      |
| <b>Surrogates</b>           |         |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)    | 100 %   |                                   | 80-120                    | 1                        |               | 08/20/13 18:04 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 100 %   |                                   | 80-120                    | 1                        |               | 08/20/13 18:04 | 17060-07-0 |      |
| Toluene-d8 (S)              | 107 %   |                                   | 80-120                    | 1                        |               | 08/20/13 18:04 | 2037-26-5  |      |
| Preservation pH             | 7.0     |                                   | 0.10                      | 1                        |               | 08/20/13 18:04 |            | H1   |

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Water Protection Program

# ANALYTICAL RESULTS

Project: SHOAL EFFLUENT YEARLY 8/8/12  
Pace Project No.: 60126860

Sample: SHOAL-EFFLUENT (YEARLY'S) C2 Lab ID: 60126860001 Collected: 08/08/12 07:30 Received: 08/09/12 04:10 Matrix: Water

| Parameters                                                                        | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|-----------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>200.8 MET ICPMS</b> Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |         |       |              |       |    |                |                |            |      |
| Arsenic                                                                           | 1.2     | ug/L  | 1.0          | 0.14  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-38-2  |      |
| Cadmium                                                                           | ND      | ug/L  | 0.50         | 0.097 | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-43-9  |      |
| Copper                                                                            | 5.4     | ug/L  | 1.0          | 0.45  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-50-8  |      |
| Lead                                                                              | 0.77J   | ug/L  | 1.0          | 0.051 | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7439-92-1  |      |
| Molybdenum                                                                        | 3.4     | ug/L  | 1.0          | 0.16  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7439-98-7  |      |
| Nickel                                                                            | 3.1     | ug/L  | 1.0          | 0.35  | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-02-0  |      |
| Silver                                                                            | ND      | ug/L  | 0.50         | 0.059 | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-22-4  |      |
| Zinc                                                                              | 38.0    | ug/L  | 10.0         | 1.6   | 1  | 08/13/12 16:45 | 08/16/12 12:37 | 7440-66-6  | B    |
| <b>245.1 Mercury</b> Analytical Method: EPA 245.1 Preparation Method: EPA 245.1   |         |       |              |       |    |                |                |            |      |
| Mercury                                                                           | ND      | ug/L  | 0.20         | 0.053 | 1  | 08/14/12 16:45 | 08/15/12 15:39 | 7439-97-6  |      |
| <b>625 MSSV</b> Analytical Method: EPA 625 Preparation Method: EPA 625            |         |       |              |       |    |                |                |            |      |
| Acenaphthene                                                                      | ND      | ug/L  | 5.0          | 0.29  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 83-32-9    |      |
| Acenaphthylene                                                                    | ND      | ug/L  | 5.0          | 0.43  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 208-96-8   |      |
| Anthracene                                                                        | ND      | ug/L  | 5.0          | 0.38  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 120-12-7   |      |
| Benidine                                                                          | ND      | ug/L  | 50.0         | 0.38  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 92-87-5    | M1   |
| Benzo(a)anthracene                                                                | ND      | ug/L  | 5.0          | 0.44  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 56-55-3    |      |
| Benzo(a)pyrene                                                                    | ND      | ug/L  | 5.0          | 0.46  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 50-32-8    |      |
| Benzo(b)fluoranthene                                                              | ND      | ug/L  | 5.0          | 0.54  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                                              | ND      | ug/L  | 5.0          | 0.41  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 191-24-2   |      |
| Benzo(k)fluoranthene                                                              | ND      | ug/L  | 5.0          | 0.37  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 207-08-9   |      |
| 4-Bromophenylphenyl ether                                                         | ND      | ug/L  | 5.0          | 0.53  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 101-55-3   |      |
| Butylbenzylphthalate                                                              | ND      | ug/L  | 5.0          | 0.54  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                                           | ND      | ug/L  | 5.0          | 0.55  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 59-50-7    |      |
| bis(2-Chloroethoxy)methane                                                        | ND      | ug/L  | 5.0          | 0.45  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                                          | ND      | ug/L  | 6.0          | 0.45  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 111-44-4   |      |
| bis(2-Chloroisopropyl) ether                                                      | ND      | ug/L  | 6.0          | 0.37  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 39638-32-9 |      |
| 2-Chloronaphthalene                                                               | ND      | ug/L  | 5.0          | 0.32  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 91-58-7    |      |
| 2-Chlorophenol                                                                    | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                                        | ND      | ug/L  | 5.0          | 0.35  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 7005-72-3  |      |
| Chrysene                                                                          | ND      | ug/L  | 5.0          | 0.43  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                                             | ND      | ug/L  | 5.0          | 0.32  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 53-70-3    |      |
| 3,3'-Dichlorobenzidine                                                            | ND      | ug/L  | 20.0         | 0.64  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 91-94-1    |      |
| 2,4-Dichlorophenol                                                                | ND      | ug/L  | 5.0          | 0.29  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 120-83-2   |      |
| Diethylphthalate                                                                  | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 84-66-2    |      |
| 2,4-Dimethylphenol                                                                | ND      | ug/L  | 5.0          | 0.26  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 105-67-9   |      |
| Dimethylphthalate                                                                 | ND      | ug/L  | 5.0          | 0.37  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 131-11-3   |      |
| Di-n-butylphthalate                                                               | 1.6J    | ug/L  | 5.0          | 0.33  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol                                                        | ND      | ug/L  | 25.0         | 2.0   | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 534-52-1   |      |
| 2,4-Dinitrophenol                                                                 | ND      | ug/L  | 50.0         | 0.42  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 51-28-5    |      |
| 2,4-Dinitrotoluene                                                                | ND      | ug/L  | 6.0          | 0.50  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 121-14-2   |      |
| 2,6-Dinitrotoluene                                                                | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 606-20-2   |      |
| Di-n-octylphthalate                                                               | ND      | ug/L  | 5.0          | 0.27  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate                                                        | 1.1J    | ug/L  | 5.0          | 0.64  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 117-81-7   |      |

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## ANALYTICAL RESULTS

Project: SHOAL EFFLUENT YEARLY 8/8/12

Pace Project No.: 60126860

Sample: SHOAL-EFFLUENT (YEARLY'S) C2 Lab ID: 60126860001 Collected: 08/08/12 07:30 Received: 08/09/12 04:10 Matrix: Water

| Parameters                                                             | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>625 MSSV</b> Analytical Method: EPA 625 Preparation Method: EPA 625 |         |       |              |       |    |                |                |            |      |
| Fluoranthene                                                           | ND      | ug/L  | 5.0          | 0.40  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 206-44-0   |      |
| Fluorene                                                               | ND      | ug/L  | 5.0          | 0.38  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 86-73-7    |      |
| Hexachloro-1,3-butadiene                                               | ND      | ug/L  | 5.0          | 0.48  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 87-68-3    |      |
| Hexachlorobenzene                                                      | ND      | ug/L  | 5.0          | 0.55  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 118-74-1   |      |
| Hexachlorocyclopentadiene                                              | ND      | ug/L  | 5.0          | 4.0   | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 77-47-4    |      |
| Hexachloroethane                                                       | ND      | ug/L  | 5.0          | 0.44  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene                                                 | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 193-39-5   |      |
| Isophorone                                                             | ND      | ug/L  | 5.0          | 0.28  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 78-59-1    |      |
| Naphthalene                                                            | ND      | ug/L  | 5.0          | 0.40  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 91-20-3    |      |
| Nitrobenzene                                                           | ND      | ug/L  | 5.0          | 0.29  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 98-95-3    |      |
| 2-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 0.30  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 88-75-5    |      |
| 4-Nitrophenol                                                          | ND      | ug/L  | 5.0          | 0.45  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 100-02-7   |      |
| N-Nitrosodimethylamine                                                 | ND      | ug/L  | 5.0          | 0.55  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine                                             | ND      | ug/L  | 5.0          | 0.36  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 621-64-7   |      |
| N-Nitrosodiphenylamine                                                 | ND      | ug/L  | 5.0          | 0.42  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 86-30-6    |      |
| Pentachlorophenol                                                      | ND      | ug/L  | 5.0          | 0.46  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 87-86-5    |      |
| Phenanthrene                                                           | ND      | ug/L  | 5.0          | 0.46  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 85-01-8    |      |
| Phenol                                                                 | ND      | ug/L  | 5.0          | 0.30  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 108-95-2   |      |
| Pyrene                                                                 | ND      | ug/L  | 5.0          | 0.44  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene                                                 | ND      | ug/L  | 5.0          | 0.41  | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 120-82-1   |      |
| 2,4,6-Trichlorophenol                                                  | ND      | ug/L  | 5.0          | 2.0   | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 88-06-2    |      |
| <b>Surrogates</b>                                                      |         |       |              |       |    |                |                |            |      |
| Nitrobenzene-d5 (S)                                                    | 59 %    |       | 32-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)                                                   | 67 %    |       | 36-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 321-60-8   |      |
| Terphenyl-d14 (S)                                                      | 83 %    |       | 44-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 1718-51-0  |      |
| Phenol-d6 (S)                                                          | 20 %    |       | 12-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 13127-88-3 |      |
| 2-Fluorophenol (S)                                                     | 30 %    |       | 18-120       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 367-12-4   |      |
| 2,4,6-Tribromophenol (S)                                               | 80 %    |       | 39-119       |       | 1  | 08/13/12 00:00 | 08/14/12 20:26 | 118-79-6   |      |
| <b>624 Volatile Organics LowLevel</b> Analytical Method: EPA 624 Low   |         |       |              |       |    |                |                |            |      |
| 1,2-Dichloroethane                                                     | ND      | ug/L  | 1.0          | 0.090 | 1  |                | 08/14/12 01:03 | 107-06-2   |      |
| 1,1,1-Trichloroethane                                                  | ND      | ug/L  | 1.0          | 0.090 | 1  |                | 08/14/12 01:03 | 71-55-6    |      |
| 1,1,2-Trichloroethane                                                  | ND      | ug/L  | 1.0          | 0.19  | 1  |                | 08/14/12 01:03 | 79-00-5    |      |
| <b>Surrogates</b>                                                      |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)                                               | 95 %    |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 460-00-4   |      |
| Dibromofluoromethane (S)                                               | 100 %   |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 1868-53-7  |      |
| Toluene-d8 (S)                                                         | 102 %   |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)                                              | 102 %   |       | 80-120       |       | 1  |                | 08/14/12 01:03 | 17060-07-0 |      |
| Preservation pH                                                        | 1.0     |       | 1.0          | 1.0   | 1  |                | 08/14/12 01:03 |            |      |
| <b>350.1 Ammonia</b> Analytical Method: EPA 350.1                      |         |       |              |       |    |                |                |            |      |
| Nitrogen, Ammonia                                                      | 0.13    | mg/L  | 0.10         | 0.016 | 1  |                | 08/20/12 11:12 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b> Analytical Method: EPA 420.1       |         |       |              |       |    |                |                |            |      |
| Phenolics, Total Recoverable                                           | ND      | mg/L  | 0.050        | 0.011 | 1  |                | 08/14/12 15:32 |            |      |

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SHOAL EFFLUENT YEARLY 8/8/12  
Pace Project No.: 60126860

**Sample: SHOAL-EFFLUENT (YEARLY'S) C2**      **Lab ID: 60126860001**      Collected: 08/08/12 07:30      Received: 08/09/12 04:10      Matrix: Water

| Parameters                                                    | Results | Units | Report Limit | MDL    | DF | Prepared | Analyzed       | CAS No. | Qual |
|---------------------------------------------------------------|---------|-------|--------------|--------|----|----------|----------------|---------|------|
| <b>4500CNE Cyanide, Total</b> Analytical Method: SM 4500-CN-E |         |       |              |        |    |          |                |         |      |
| Cyanide                                                       | 0.0056  | mg/L  | 0.0050       | 0.0021 | 1  |          | 08/15/12 13:25 | 57-12-5 | B    |

**Sample: ACUTE WET TEST**      **Lab ID: 60126860002**      Collected: 08/08/12 07:30      Received: 08/08/12 14:20      Matrix: Water

| Parameters                                                | Results  | Units | Report Limit | MDL | DF | Prepared | Analyzed       | CAS No. | Qual |
|-----------------------------------------------------------|----------|-------|--------------|-----|----|----------|----------------|---------|------|
| <b>Acute Toxicity</b> Analytical Method: EPA 821/R-02/012 |          |       |              |     |    |          |                |         |      |
| Toxicity, Acute                                           | Complete |       | 1.0          | 1.0 | 1  |          | 08/10/12 14:10 |         |      |

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Water Protection Program

ANALYTICAL RESULTS

Project: Shoal Effluent Yearly

Pace Project No.: 60201970

Sample: YEARLY SHOAL EFFLUENT-C2 Lab ID: 60201970001 Collected: 09/02/15 08:00 Received: 09/02/15 19:35 Matrix: Water

| Parameters                            | Results | Units | Report Limit | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| <b>624 Volatile Organics LowLevel</b> |         |       |              |       |    |          |                |            |      |
| Analytical Method: EPA 624 Low        |         |       |              |       |    |          |                |            |      |
| 1,1-Dichloroethene                    | ND      | ug/L  | 1.0          | 0.087 | 1  |          | 09/11/15 19:06 | 75-35-4    |      |
| 1,1,1-Trichloroethane                 | ND      | ug/L  | 1.0          | 0.12  | 1  |          | 09/11/15 19:06 | 71-55-6    |      |
| 1,1,2-Trichloroethane                 | ND      | ug/L  | 1.0          | 0.15  | 1  |          | 09/11/15 19:06 | 79-00-5    |      |
| <b>Surrogates</b>                     |         |       |              |       |    |          |                |            |      |
| 4-Bromofluorobenzene (S)              | 98      | %     | 80-120       |       | 1  |          | 09/11/15 19:06 | 460-00-4   |      |
| Toluene-d8 (S)                        | 100     | %     | 80-120       |       | 1  |          | 09/11/15 19:06 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)             | 95      | %     | 80-120       |       | 1  |          | 09/11/15 19:06 | 17060-07-0 |      |
| Preservation pH                       | 1.0     |       | 1.0          | 1.0   | 1  |          | 09/11/15 19:06 |            |      |

REPORT OF LABORATORY ANALYSIS

Date: 09/15/2015 09:23 AM

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### QUALITY CONTROL DATA

Project: Shoal Effluent Yearly  
Pace Project No.: 60201970

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| QC Batch: MSV/71656                 | Analysis Method: EPA 624 Low            |
| QC Batch Method: EPA 624 Low        | Analysis Description: 624 MSV Low Level |
| Associated Lab Samples: 60201970001 |                                         |

METHOD BLANK: 1631572 Matrix: Water  
Associated Lab Samples: 60201970001

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | ND           | 1.0             | 09/11/15 15:32 |            |
| 1,1,2-Trichloroethane     | ug/L  | ND           | 1.0             | 09/11/15 15:32 |            |
| 1,1-Dichloroethene        | ug/L  | ND           | 1.0             | 09/11/15 15:32 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 96           | 80-120          | 09/11/15 15:32 |            |
| 4-Bromofluorobenzene (S)  | %     | 98           | 80-120          | 09/11/15 15:32 |            |
| Toluene-d8 (S)            | %     | 101          | 80-120          | 09/11/15 15:32 |            |

LABORATORY CONTROL SAMPLE: 1631573

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 18.0       | 90        | 67-129       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 17.5       | 87        | 67-124       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 16.0       | 80        | 67-128       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 99        | 80-120       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 99        | 80-120       |            |
| Toluene-d8 (S)            | %     |             |            | 101       | 80-120       |            |

MATRIX SPIKE SAMPLE: 1631574

| Parameter                 | Units | 60201970001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | ND                 | 20          | 19.9      | 99       | 52-155       |            |
| 1,1,2-Trichloroethane     | ug/L  | ND                 | 20          | 17.9      | 90       | 52-143       |            |
| 1,1-Dichloroethene        | ug/L  | ND                 | 20          | 19.0      | 95       | 38-153       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 98       | 80-120       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 96       | 80-120       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 103      | 80-120       |            |
| Preservation pH           |       | 1.0                |             | 1.0       |          |              |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                             |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|-----------------------------|
| <b>MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                             |                             |
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PERMIT NO.<br>MO- 0104906  | OUTFALL NO.<br>001          |                             |
| <b>PART E – TOXICITY TESTING DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                             |                             |
| <b>17. TOXICITY TESTING DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                             |                             |
| Refer to the APPLICATION OVERVIEW to determine whether Part E applies to the treatment works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                             |                             |
| Publicly owned treatment works, or POTWs, meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                             |                             |
| <ul style="list-style-type: none"> <li>A. POTWs with a design flow rate greater than or equal to 1 million gallons per day</li> <li>B. POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403)</li> <li>C. POTWs required by the permitting authority to submit data for these parameters <ul style="list-style-type: none"> <li>• At a minimum, these results must include quarterly testing for a 12-month period within the past one year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute or chronic toxicity, depending on the range of receiving water dilution. Do not include information about combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.</li> <li>• If EPA methods were not used, report the reason for using alternative methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the application overview for directions on which other sections of the form to complete.</li> </ul> </li> </ul> |                            |                             |                             |
| Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years: _____ chronic <u>  X  </u> acute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                             |                             |
| Complete the following chart for the last three whole effluent toxicity tests. Allow one column per test. Copy this page if more than three tests are being reported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                             |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Most Recent                | 2 <sup>ND</sup> Most Recent | 3 <sup>RD</sup> Most Recent |
| <b>A. Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                             |                             |
| Test Method Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2000/2002                  | 2000/2002                   | 2000/2002                   |
| Final Report Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60200398                   | 60175707                    | 60125407                    |
| Outfall Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 001                        | 001                         | 001                         |
| Dates Sample Collected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8-12-2015                  | 8-13-2014                   | 8-08-2012                   |
| Date Test Started                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8-12-2015                  | 8-13-2014                   | 8-08-2012                   |
| Duration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 48 hours                   | 48 hours                    | 48 hours                    |
| <b>B. Toxicity Test Methods Followed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                             |                             |
| Manual Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | see attachment             | see attachment              | see attachment              |
| Edition Number and Year of Publication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2002                       | 2002                        | 2002                        |
| Page Number(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | entire document            | entire document             | entire document             |
| <b>C. Sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                             |                             |
| 24-Hour Composite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X                          | X                           | X                           |
| Grab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                             |                             |
| <b>D. Indicate where the sample was taken in relation to disinfection (Check all that apply for each)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                             |                             |
| Before Disinfection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| After Disinfection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| After Dechlorination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| <b>E. Describe the point in the treatment process at which the sample was collected</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                             |                             |
| Sample Was Collected:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | C-2 Effluent               | C-2 Effluent                | C-2 Effluent                |
| <b>F. Indicate whether the test was intended to assess chronic toxicity, acute toxicity, or both</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                             |                             |
| Chronic Toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| Acute Toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| <b>G. Provide the type of test performed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                             |                             |
| Static                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| Static-renewal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| Flow-through                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |
| <b>H. Source of dilution water. If laboratory water, specify type; if receiving water, specify source</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                             |                             |
| Laboratory Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> X | <input type="checkbox"/> X  | <input type="checkbox"/> X  |
| Receiving Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/>   | <input type="checkbox"/>    | <input type="checkbox"/>    |



|                                                                                                                                                                                                                                                          |             |                           |                   |                    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------|-------------------|--------------------|--|
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                             |             | PERMIT NO.<br>MO- 0104906 |                   | OUTFALL NO.<br>001 |  |
| <b>PART E – TOXICITY TESTING DATA</b>                                                                                                                                                                                                                    |             |                           |                   |                    |  |
| <b>17. TOXICITY TESTING DATA (continued)</b>                                                                                                                                                                                                             |             |                           |                   |                    |  |
|                                                                                                                                                                                                                                                          | Most Recent | Second Most Recent        | Third Most Recent |                    |  |
| I. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.                                                                                                                                               |             |                           |                   |                    |  |
| Fresh Water                                                                                                                                                                                                                                              | X           | X                         | X                 |                    |  |
| Salt Water                                                                                                                                                                                                                                               |             |                           |                   |                    |  |
| J. Percentage of effluent used for all concentrations in the test series                                                                                                                                                                                 |             |                           |                   |                    |  |
|                                                                                                                                                                                                                                                          | 100%        | 100%                      | 100%              |                    |  |
|                                                                                                                                                                                                                                                          |             |                           |                   |                    |  |
|                                                                                                                                                                                                                                                          |             |                           |                   |                    |  |
| K. Parameters measured during the test (State whether parameter meets test method specifications)                                                                                                                                                        |             |                           |                   |                    |  |
| pH                                                                                                                                                                                                                                                       | 7.73        | 7.58                      | 7.27              |                    |  |
| Salinity                                                                                                                                                                                                                                                 | NA          | NA                        | NA                |                    |  |
| Temperature                                                                                                                                                                                                                                              | 25c         | 25c                       | 25c               |                    |  |
| Ammonia                                                                                                                                                                                                                                                  | 7.7         | ND <.10                   | .13               |                    |  |
| Dissolved Oxygen                                                                                                                                                                                                                                         | 6.40        | 6.90                      | 6.70              |                    |  |
| L. Test Results                                                                                                                                                                                                                                          |             |                           |                   |                    |  |
| Acute:                                                                                                                                                                                                                                                   |             |                           |                   |                    |  |
| Percent Survival in 100% Effluent                                                                                                                                                                                                                        |             |                           |                   |                    |  |
| LC <sub>50</sub>                                                                                                                                                                                                                                         | 100%        | 100%                      | 100%              |                    |  |
| 95% C.I.                                                                                                                                                                                                                                                 | yes         | yes                       | yes               |                    |  |
| Control Percent Survival                                                                                                                                                                                                                                 | 100%        | 100%                      | 100%              |                    |  |
| Other (Describe)                                                                                                                                                                                                                                         |             |                           |                   |                    |  |
| Chronic:                                                                                                                                                                                                                                                 |             |                           |                   |                    |  |
| NOEC                                                                                                                                                                                                                                                     | NA          | NA                        | NA                |                    |  |
| IC <sub>25</sub>                                                                                                                                                                                                                                         | NA          | NA                        | NA                |                    |  |
| Control Percent Survival                                                                                                                                                                                                                                 | NA          | NA                        | NA                |                    |  |
| Other (Describe)                                                                                                                                                                                                                                         |             |                           |                   |                    |  |
| M. Quality Control/ Quality Assurance                                                                                                                                                                                                                    |             |                           |                   |                    |  |
| Is reference toxicant data available?                                                                                                                                                                                                                    | yes         | yes                       | yes               |                    |  |
| Was reference toxicant test within acceptable bounds?                                                                                                                                                                                                    | yes         | yes                       | yes               |                    |  |
| What date was reference toxicant test run (MM/DD/YYYY)?                                                                                                                                                                                                  | 08/12/2015  | 08/14/2014                | 08/08/2012        |                    |  |
| Other (Describe)                                                                                                                                                                                                                                         |             |                           |                   |                    |  |
| Is the treatment works involved in a toxicity reduction evaluation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                  |             |                           |                   |                    |  |
| If yes, describe:                                                                                                                                                                                                                                        |             |                           |                   |                    |  |
|                                                                                                                                                                                                                                                          |             |                           |                   |                    |  |
| If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results. |             |                           |                   |                    |  |
| Date Submitted (MM/DD/YYYY)                                                                                                                                                                                                                              |             |                           |                   |                    |  |
| Summary of Results (See Instructions)                                                                                                                                                                                                                    |             |                           |                   |                    |  |
|                                                                                                                                                                                                                                                          |             |                           |                   |                    |  |
| <b>END OF PART E</b>                                                                                                                                                                                                                                     |             |                           |                   |                    |  |
| <b>REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.</b>                                                                                                                                                    |             |                           |                   |                    |  |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM

**WHOLE EFFLUENT TOXICITY (WET) TEST REPORT**

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

RECEIVED

JUL 18 2016

Water Protection Program

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

|                                                                     |  |                                                                                                             |  |
|---------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| FACILITY NAME                                                       |  | DATE AND TIME COLLECTED                                                                                     |  |
| PERMIT NUMBER                                                       |  | EFFLUENT _____ UPSTREAM _____                                                                               |  |
| COLLECTOR'S NAME                                                    |  | PERMIT OUTFALL NUMBER                                                                                       |  |
| RECEIVING STREAM COLLECTION SITE AND DESCRIPTION                    |  |                                                                                                             |  |
| PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC)                       |  | EFFLUENT SAMPLE TYPE (CHECK ONE)                                                                            |  |
| SAMPLE NUMBER                                                       |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| EFFLUENT _____ UPSTREAM _____                                       |  | UPSTREAM SAMPLE TYPE (CHECK ONE)                                                                            |  |
| PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR CHLORINE _____ mg/L |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
|                                                                     |  | PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR AMMONIA _____ mg/L                                          |  |

**PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY**

|                                                                                                                     |  |                                                                                                                          |                                                                        |
|---------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| PERFORMING LABORATORY                                                                                               |  | TEST TYPE                                                                                                                |                                                                        |
| PACE ANALYTICAL SERVICES                                                                                            |  | Acute                                                                                                                    |                                                                        |
| FINAL REPORT NUMBER                                                                                                 |  | TEST DURATION                                                                                                            |                                                                        |
| 60200398                                                                                                            |  | 48 HOURS                                                                                                                 |                                                                        |
| DATE OF LAST REFERENCE TOXICANT TESTING                                                                             |  | TEST METHOD                                                                                                              |                                                                        |
| 7/22/15                                                                                                             |  | EPA 2000 AND 2002                                                                                                        |                                                                        |
| DATE AND TIME SAMPLES RECEIVED AT LABORATORY                                                                        |  | TEST START DATE AND TIME                                                                                                 | TEST END DATE AND TIME                                                 |
| 8/12/15 15:15                                                                                                       |  | 8/12/15 15:30                                                                                                            | 8/14/15 14:45                                                          |
| SAMPLE DECHLORINATED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO         |  | TEST ORGANISM #1 AND AGE                                                                                                 | TEST ORGANISM #2 AND AGE                                               |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | DUBIA <24 HOURS                                                                                                          | FATHEAD 2 DAYS                                                         |
| SAMPLE FILTERED <sup>1</sup> PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | 90 PERCENT OR GREATER SURVIVAL IN SYNTHETIC CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | DILUTION WATER USED TO ACHIEVE AEC                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  |                                                                                                                          |                                                                        |
| FILTER MESH SIEVE SIZE 2                                                                                            |  | EFFLUENT ORGANISM #1 PERCENT MORTALITY AT AEC                                                                            | EFFLUENT ORGANISM #2 PERCENT MORTALITY AT AEC                          |
|                                                                                                                     |  | 0                                                                                                                        | 0                                                                      |
| SAMPLE AERATED DURING TESTING?                                                                                      |  | UPSTREAM ORGANISM #1 PERCENT MORTALITY                                                                                   | UPSTREAM ORGANISM #2 PERCENT MORTALITY                                 |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                 |  |                                                                                                                          |                                                                        |
| pH ADJUSTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                    |  | TEST RESULT AT AEC FOR ORGANISM #1                                                                                       | TEST RESULT AT AEC FOR ORGANISM #2                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL                                                   | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

| PARAMETER                    | RESULT | METHOD       | WHEN ANALYZED |
|------------------------------|--------|--------------|---------------|
| Temperature °C               | 25     | SM 2550B     | 8/12/15       |
| pH Standard Units            | 7.73   | SM 4500-H+ B | 8/12/15       |
| Conductance µMols            | 705    | 82EPA 120.1  | 8/12/15       |
| Dissolved Oxygen mg/L        | 6.40   | SM 4500-O G  | 8/12/15       |
| Total Residual Chlorine mg/L | <.1    | SM 4500-CL G | 8/12/15       |
| Unionized Ammonia mg/L       |        |              |               |
| * Total Alkalinity mg/L      | 230    | SM 2320 B    | 8/12/15       |
| * Total Hardness mg/L        | 200    | SM2340 C     | 8/12/15       |

\* Recommended by EPA guidance, not a required analysis.

<sup>1</sup> Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack the test organisms.

<sup>2</sup> Filters shall have a sieve size of 60 microns or greater.





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM

**WHOLE EFFLUENT TOXICITY (WET) TEST REPORT**

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

|                                                  |  |                                                                                                             |  |
|--------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| FACILITY NAME:                                   |  | DATE AND TIME COLLECTED                                                                                     |  |
| PERMIT NUMBER                                    |  | EFFLUENT _____ UPSTREAM _____                                                                               |  |
| COLLECTOR'S NAME                                 |  | PERMIT OUTFALL NUMBER                                                                                       |  |
| RECEIVING STREAM COLLECTION SITE AND DESCRIPTION |  |                                                                                                             |  |
| PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC)    |  | EFFLUENT SAMPLE TYPE (CHECK ONE)                                                                            |  |
| SAMPLE NUMBER                                    |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| EFFLUENT _____ UPSTREAM _____                    |  | UPSTREAM SAMPLE TYPE (CHECK ONE)                                                                            |  |
| PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR  |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| CHLORINE _____ mg/L                              |  | PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR                                                             |  |
|                                                  |  | AMMONIA _____ mg/L                                                                                          |  |

**PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY**

|                                                                                                              |  |                                                                                        |                                                                        |
|--------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| PERFORMING LABORATORY                                                                                        |  | TEST TYPE                                                                              |                                                                        |
| PACE ANALYTICAL SERVICES                                                                                     |  | Acute                                                                                  |                                                                        |
| FINAL REPORT NUMBER                                                                                          |  | TEST DURATION                                                                          |                                                                        |
| 60175707                                                                                                     |  | 48 HOURS                                                                               |                                                                        |
| DATE OF LAST REFERENCE TOXICANT TESTING                                                                      |  | TEST METHOD                                                                            |                                                                        |
| 8/13/14                                                                                                      |  | EPA 2000 AND 2002                                                                      |                                                                        |
| DATE AND TIME SAMPLES RECEIVED AT LABORATORY                                                                 |  | TEST START DATE AND TIME                                                               | TEST END DATE AND TIME                                                 |
| 8/13/14 14:30                                                                                                |  | 8/13/14 15:15                                                                          | 8/15/14 00                                                             |
| SAMPLE DECONTAMINATED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | TEST ORGANISM #1 AND AGI                                                               | TEST ORGANISM #2 AND AGI                                               |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | DUBIA <24 HOURS                                                                        | FATHEAD 8 DAYS                                                         |
| SAMPLE FILTERED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO       |  | 90 PERCENT OR GREATER SURVIVAL IN                                                      | DILUTION WATER USED TO ACHIEVE AEC                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | SYNTHETIC CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |                                                                        |
| FILTER MESH SIEVE SIZE?                                                                                      |  | EFFLUENT ORGANISM #1 PERCENT MORTALITY AT AEC                                          | EFFLUENT ORGANISM #2 PERCENT MORTALITY AT AEC                          |
|                                                                                                              |  | 0                                                                                      | 0                                                                      |
| SAMPLE AERATED DURING TESTING?                                                                               |  | UPSTREAM ORGANISM #1 PERCENT MORTALITY                                                 | UPSTREAM ORGANISM #2 PERCENT MORTALITY                                 |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                          |  |                                                                                        |                                                                        |
| pH ADJUSTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                             |  | TEST RESULT AT AEC FOR ORGANISM #1                                                     | TEST RESULT AT AEC FOR ORGANISM #2                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                |  | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL                 | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

| PARAMETER                    | RESULT | METHOD       | WHEN ANALYZED |
|------------------------------|--------|--------------|---------------|
| Temperature °C               | 25     | SM 2550B     | 8/13/14       |
| pH Standard Units            | 7.48   | SM 4500-H+ B | 8/13/14       |
| Conductance µMols            | 731    | EPA 120.1    | 8/13/14       |
| Dissolved Oxygen mg/L        | 6.90   | SM 4500-O G  | 8/13/14       |
| Total Residual Chlorine mg/L | <.1    | SM 4500-CL G | 8/13/14       |
| Unionized Ammonia mg/L       |        |              |               |
| * Total Alkalinity mg/L      | 136    | SM 2320 B    | 8/13/14       |
| * Total Hardness mg/L        | 134    | SM2340 B     | 8/13/14       |

\* Recommended by EPA guidance, not a required analysis

<sup>1</sup> Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack the test organisms

<sup>2</sup> Filters shall have a sieve size of 60 microns or greater





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM

**WHOLE EFFLUENT TOXICITY (WET) TEST REPORT**

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

|                                                  |  |                                                                                                             |  |
|--------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| FACILITY NAME                                    |  | DATE AND TIME COLLECTED                                                                                     |  |
| PERMIT NUMBER                                    |  | EFFLUENT _____ UPSTREAM _____                                                                               |  |
| COLLECTOR'S NAME                                 |  | PERMIT OUTFALL NUMBER                                                                                       |  |
| RECEIVING STREAM COLLECTION SITE AND DESCRIPTION |  |                                                                                                             |  |
| PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC)    |  | EFFLUENT SAMPLE TYPE (CHECK ONE)                                                                            |  |
| SAMPLE NUMBER                                    |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| EFFLUENT _____ UPSTREAM _____                    |  | UPSTREAM SAMPLE TYPE (CHECK ONE)                                                                            |  |
| PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR  |  | <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____ |  |
| CHLORINE _____ mg/L                              |  | PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR                                                             |  |
|                                                  |  | AMMONIA _____ mg/L                                                                                          |  |

**PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY**

|                                                                                                                     |  |                                                                                        |                                                                        |
|---------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| PERFORMING LABORATORY                                                                                               |  | TEST TYPE                                                                              |                                                                        |
| PACE ANALYTICAL SERVICES                                                                                            |  | Acute                                                                                  |                                                                        |
| FINAL REPORT NUMBER                                                                                                 |  | TEST DURATION                                                                          |                                                                        |
| 60125407                                                                                                            |  | 48 HOURS                                                                               |                                                                        |
| DATE OF LAST REFERENCE TOXICANT TESTING                                                                             |  | TEST METHOD                                                                            |                                                                        |
| 8/1/12                                                                                                              |  | EPA 2000 AND 2002                                                                      |                                                                        |
| DATE AND TIME SAMPLE RECEIVED AT LABORATORY                                                                         |  | TEST START DATE AND TIME                                                               | TEST END DATE AND TIME                                                 |
| 8/8/12 14:20                                                                                                        |  | 8/8/12 15:00                                                                           | 8/10/12 14:10                                                          |
| SAMPLE DECONTAMINATED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO        |  | TEST ORGANISM #1 AND AGE                                                               | TEST ORGANISM #2 AND AGE                                               |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | DUBIA <24 HOURS                                                                        | FATHEAD 2 DAYS                                                         |
| SAMPLE FILTERED <sup>1</sup> PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | 90 PERCENT OR GREATER SURVIVAL IN                                                      | DILUTION WATER USED TO ACHIEVE AEC                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | SYNTHETIC CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |                                                                        |
| FILTER MESH SIZE: 2                                                                                                 |  | EFFLUENT ORGANISM #1 PERCENT MORTALITY AT AEC                                          | EFFLUENT ORGANISM #2 PERCENT MORTALITY AT AEC                          |
|                                                                                                                     |  | 0                                                                                      | 0                                                                      |
| SAMPLE AERATED DURING TESTING?                                                                                      |  | UPSTREAM ORGANISM #1 PERCENT MORTALITY                                                 | UPSTREAM ORGANISM #2 PERCENT MORTALITY                                 |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                 |  |                                                                                        |                                                                        |
| pH ADJUSTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                    |  | TEST RESULT AT AEC FOR ORGANISM #1                                                     | TEST RESULT AT AEC FOR ORGANISM #2                                     |
| EFFLUENT _____ UPSTREAM _____                                                                                       |  | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL                 | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

**PART A - TO BE COMPLETED IN FULL BY PERMITTEE**

| PARAMETER                    | RESULT | METHOD       | WHEN ANALYZED |
|------------------------------|--------|--------------|---------------|
| Temperature °C               | 25     | SM 2550B     | 8/8/12        |
| pH Standard Units            | 7.27   | SM 4500-H+ B | 8/8/12        |
| Conductance µmhos            | 684    | EPA 120.1    | 8/8/12        |
| Dissolved Oxygen mg/L        | 6.70   | SM 4500-O G  | 8/8/12        |
| Total Residual Chlorine mg/L | <1     | SM 4500-CL G | 8/8/12        |
| Unionized Ammonia mg/L       |        |              |               |
| * Total Alkalinity mg/L      | 114    | SM 2320 B    | 8/8/12        |
| * Total Hardness mg/L        | 208    | SM2340 B     | 8/8/12        |

\* Recommended by EPA guidance, not a required analysis

Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack the test organisms.

<sup>2</sup> Filters shall have a sieve size of 60 microns or greater.



**MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL**

FACILITY NAME

Shoal Creek

PERMIT NO.

MO- 0104906

OUTFALL NO.

001

**PART F – INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES**

Refer to the APPLICATION OVERVIEW to determine whether Part F applies to the treatment works.

**18. GENERAL INFORMATION****18.1** Does the treatment works have, or is it subject to, an approved pretreatment program?☒ Yes☐ No**18.2** Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works:Number of non-categorical SIUs 1Number of CIUs 0**19. INDUSTRIES CONTRIBUTING MORE THAN 5 PERCENT OF THE ACTUAL FLOW TO THE FACILITY OR OTHER SIGNIFICANT INDUSTRIAL USERS INFORMATION**

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, provide the information requested for each. Submit additional pages as necessary.

NAME

Rembrandt Foods

MAILING ADDRESS

409 N Wood St

CITY

Neosho

STATE

MO

ZIP CODE

64850

**19.1** Describe all of the industrial processes that affect or contribute to the SIU's discharge  
egg pasteurization**19.2** Describe all of the principle processes and raw materials that affect or contribute to the SIU's discharge.

Principal Product(s): egg pasteurization

Raw Material(s): egg

**19.3 Flow Rate****a. PROCESS WASTEWATER FLOW RATE.** Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day, or gpd, and whether the discharge is continuous or intermittent.33,500 gpd ☐ Continuous ☒ Intermittent**b. NON-PROCESS WASTEWATER FLOW RATE.** Indicate the average daily volume of non-process wastewater discharged into the collection system in gallons per day, or gpd, and whether the discharge is continuous or intermittent.33,500 gpd ☐ Continuous ☒ Intermittent**19.4** Pretreatment Standards. Indicate whether the SIU is subject to the following:**a. Local Limits** ☐ Yes ☒ No**b. Categorical Pretreatment Standards** ☐ Yes ☒ No

If subject to categorical pretreatment standards, which category and subcategory?

**19.5** Problems at the treatment works attributed to waste discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?☐ Yes☒ No

If Yes, describe each episode



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|
| <b>MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                    |
| FACILITY NAME<br>Shoal Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PERMIT NO.<br>MO- 01104906 | OUTFALL NO.<br>001 |
| <b>PART F – INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                    |
| <b>20. RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                    |
| <b>20.1</b> Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                |                            |                    |
| <b>20.2</b> Method by which RCRA waste is received. (Check all that apply)<br><input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated Pipe                                                                                                                                                                                                                                                                                                                                                                                   |                            |                    |
| <b>20.3</b> Waste Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                    |
| EPA Hazardous Waste Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Amount (volume or mass)    | Units              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
| <b>21. CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |
| <b>21.1</b> Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Provide a list of sites and the requested information for each current and future site.                                                                                                                                                                                                                                                                      |                            |                    |
| <b>21.2</b> Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).<br><br><br><br><br><br><br><br><br><br>                                                                                                                                                                                                                                                                                                                                           |                            |                    |
| <b>21.3</b> List the hazardous constituents that are received (or are expected to be received). Included data on volume and concentration, if known. (Attach additional sheets if necessary)<br><br><br><br><br><br><br><br><br><br>                                                                                                                                                                                                                                                                                                                                 |                            |                    |
| <b>21.4</b> Waste Treatment<br>a. Is this waste treated (or will it be treated) prior to entering the treatment works?<br><input type="checkbox"/> Yes <input type="checkbox"/> No<br>If Yes, describe the treatment (provide information about the removal efficiency):<br><br><br><br><br><br><br><br><br><br>b. Is the discharge (or will the discharge be) continuous or intermittent?<br><input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent<br>If intermittent, describe the discharge schedule:<br><br><br><br><br><br><br><br><br><br> |                            |                    |
| <b>END OF PART F</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                    |
| <b>REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                    |



**MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL**FACILITY NAME  
Shoal CreekPERMIT NO.  
MO- 0104906OUTFALL NO.  
001**PART G – COMBINED SEWER SYSTEMS**

Refer to the APPLICATION OVERVIEW to determine whether Part G applies to the treatment works.

**22. GENERAL INFORMATION****22.1 System Map.** Provide a map indicating the following: (May be included with basic application information.)

- A. All CSO Discharges.
- B. Sensitive Use Areas Potentially Affected by CSOs. (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems and Outstanding Natural Resource Waters.)
- C. Waters that Support Threatened and Endangered Species Potentially Affected by CSOs.

**22.2 System Diagram.** Provide a diagram, either in the map provided above or on a separate drawing, of the Combined Sewer Collection System that includes the following information:

- A. Locations of Major Sewer Trunk Lines, Both Combined and Separate Sanitary.
- B. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer System.
- C. Locations of In-Line or Off-Line Storage Structures.
- D. Locations of Flow-Regulating Devices.
- E. Locations of Pump Stations.

**22.3** Percent of collection system that is combined sewer 0%**22.4** Population served by combined sewer collection system**22.5** Name of any satellite community with combined sewer collection system**23. CSO OUTFALLS. COMPLETE THE FOLLOWING ONCE FOR EACH CSO DISCHARGE POINT****23.1** Description of Outfall

- a. Outfall Number
- b. Location

c. Distance from Shore (if applicable) \_\_\_\_\_ ft

d. Depth Below Surface (if applicable) \_\_\_\_\_ ft

e. Which of the following were monitored during the last year for this CSO?

- ☐ Rainfall
- ☐ CSO Pollutant Concentrations
- ☐ CSO
- ☐ CSO Flow Volume
- ☐ Receiving Water Quality

f. How many storm events were monitored last year?

**23.2** CSO Events

- a. Give the Number of CSO Events in the Last Year      Events      ☐ Actual      ☐ Approximate
- b.      Give the Average Duration Per CSO Event
- Hours      ☐ Actual      ☐ Approximate
- c.      Give the Average Volume Per CSO Event
- Million Gallons      ☐ Actual      ☐ Approximate
- d. Give the minimum rainfall that caused a CSO event in the last year \_\_\_\_\_ inches of rainfall

**23.3** Description of Receiving Waters

- a. Name of Receiving Water
- b. Name of Watershed/River/Stream System
- c. U.S. Soil Conservation Service 14-Digit Watershed Code (If Known)
- d. Name of State Management/River Basin
- e. U.S. Geological Survey 8- Digit Hydrologic Cataloging Unit Code (If Known)

**23.4** CSO Operations

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shellfish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable state water quality standard.)

**END OF PART G****REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.**





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>HOAL CREEK WWTP |                   |                        |             |                 |            | CITY<br>NEOSHO               |          |                |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
|-------------------------------------|-------------------|------------------------|-------------|-----------------|------------|------------------------------|----------|----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| OR THE MONTH OF<br>April-14         |                   | OUTFALL NUMBER<br>#001 |             |                 |            | PERMIT NUMBER<br>MO# 0104906 |          |                |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| INFLUENT                            |                   |                        |             |                 |            | EFFLUENT                     |          |                |            |              |                                             |       |      |         |      |
| DAY                                 | FLOW:<br>MGD EFF. | PH UNITS               | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                     | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                   | 1.0               | 7.65                   |             |                 | 14         | 7.38                         |          |                | 14         | 5.82         |                                             |       |      |         |      |
| 2                                   | 1.4               | 7.60                   | 248.0       | 283.0           | 16.4       | 7.37                         | 12.2     | 9.0            | 16.2       | 5.90         | 150.0                                       |       |      |         |      |
| 3                                   | 1.0               | 7.64                   |             |                 | 19.0       | 7.40                         |          |                | 18.0       | 5.52         |                                             |       |      |         |      |
| 4                                   | 1.0               | 7.84                   |             |                 | 13.7       | 7.52                         |          |                | 14.4       | 5.86         |                                             |       |      |         |      |
| 5                                   | 0.8               | 7.61                   |             |                 | 13.4       | 7.35                         |          |                | 13.6       | 5.09         |                                             |       |      |         |      |
| 6                                   | 0.5               | 7.7                    |             |                 | 14.1       | 7.19                         |          |                | 15.6       | 4.52         |                                             |       |      |         |      |
| 7                                   | 1.1               | 7.69                   |             |                 | 17.0       | 7.35                         |          |                | 15.0       | 4.60         |                                             |       |      |         |      |
| 8                                   | 1.0               | 7.66                   |             |                 | 14.3       | 7.42                         |          |                | 14.6       | 4.77         |                                             |       |      |         |      |
| 9                                   | 1.1               | 7.58                   | 446.0       | 167.0           | 19.3       | 7.33                         | 14.6     | 20.0           | 16.4       | 5.00         | 75.0                                        |       |      |         |      |
| 10                                  | 1.0               | 7.63                   |             |                 | 17.5       | 7.33                         |          |                | 17.0       | 4.70         |                                             |       |      |         |      |
| 11                                  | 1.5               | 7.62                   |             |                 | 15.4       | 7.42                         |          |                | 15.6       | 4.64         |                                             |       |      |         |      |
| 12                                  | 0.9               | 7.59                   |             |                 | 19.6       | 7.36                         |          |                | 18.6       | 3.86         |                                             |       |      |         |      |
| 13                                  | 0.7               | 7.60                   |             |                 | 18.5       | 7.42                         |          |                | 18.3       | 4.20         |                                             |       |      |         |      |
| 14                                  | 1.0               | 8.10                   |             |                 | 13.1       | 7.35                         |          |                | 15.0       | 4.46         |                                             |       |      |         |      |
| 15                                  | 1.0               | 7.65                   |             |                 | 17.1       | 7.37                         |          |                | 16.4       | 4.75         |                                             |       |      |         |      |
| 16                                  | 2.7               | 7.78                   | 191.0       | 78.0            | 16.3       | 7.40                         | 10.1     | 16.0           | 16.0       | 4.50         | 80.0                                        |       |      |         |      |
| 17                                  | 1.0               | 7.78                   |             |                 | 16.1       | 7.38                         |          |                | 16.2       | 3.92         |                                             |       |      |         |      |
| 18                                  | 1.0               | 7.83                   |             |                 | 16.8       | 7.37                         |          |                | 15.8       | 5.90         |                                             |       |      |         |      |
| 19                                  | 0.7               | 7.60                   |             |                 | 14.1       | 7.21                         |          |                | 14.7       | 7.38         |                                             |       |      |         |      |
| 20                                  | 2.0               | 7.66                   |             |                 | 16.7       | 7.19                         |          |                | 16.5       | 5.70         |                                             |       |      |         |      |
| 21                                  | 1.0               | 8.55                   |             |                 | 17.7       | 7.32                         |          |                | 18.7       | 4.05         |                                             |       |      |         |      |
| 22                                  | 1.4               | 8.44                   |             |                 | 18.1       | 7.36                         |          |                | 18.0       | 4.15         |                                             |       |      |         |      |
| 23                                  | 1.4               | 7.85                   | 1320.0      | 407.0           | 18.8       | 7.35                         | 13.8     | 7.0            | 17.7       | 3.15         | 100.0                                       |       |      |         |      |
| 24                                  | 1.0               | 8.16                   |             |                 | 18.2       | 7.32                         |          |                | 20.0       | 3.98         |                                             |       |      |         |      |
| 25                                  | 1.0               | 7.70                   |             |                 | 18.8       | 7.36                         |          |                | 19.0       | 4.78         |                                             |       |      |         |      |
| 26                                  | 1.7               | 7.58                   |             |                 | 17.4       | 7.35                         |          |                | 18.2       | 5.61         |                                             |       |      |         |      |
| 27                                  | 0.6               | 7.55                   |             |                 | 18.8       | 7.24                         |          |                | 19.6       | 4.78         |                                             |       |      |         |      |
| 28                                  | 1.5               | 7.60                   |             |                 | 19.6       | 7.29                         |          |                | 19.2       | 4.33         |                                             |       |      |         |      |
| 29                                  | 1.5               | 7.63                   |             |                 | 15.0       | 7.40                         |          |                | 16.0       | 5.75         |                                             |       |      |         |      |
| 30                                  | 1.3               | 7.60                   | 582.0       | 1050.0          | 16.2       | 7.40                         | 38.6     | 21.0           | 16.6       | 5.00         | 8.0                                         |       |      |         |      |
| 31                                  |                   |                        |             |                 |            |                              |          |                |            |              |                                             |       |      |         |      |
| 3. of Samp.                         | 30.0              | 30.0                   | 5.0         | 5.0             | 30.0       | 30.0                         | 5.0      | 5.0            | 30.0       | 30.0         | 5.0                                         |       |      |         |      |
| 4. of Samp.                         | 34.7              |                        | 2787.0      | 1985.0          | 501.0      | 220.5                        | 89.3     | 73.0           | 500.9      | 146.7        | 413.0                                       |       |      |         |      |
| Monthly Avg.                        | 1.2               |                        | 557.4       | 397.0           |            |                              | 17.9     | 14.6           |            |              | 82.6                                        |       |      |         |      |
| Daily Max.                          | 2.7               | 8.6                    | 1320.0      | 1050.0          | 19.6       | 7.5                          | 38.6     | 21.0           | 20.0       | 7.4          | 150.0                                       |       |      |         |      |
| Daily Min.                          |                   | 7.6                    |             |                 | 13.1       | 7.2                          |          |                | 13.6       | 3.2          | 8.0                                         |       |      |         |      |
| Max 7/Avg.                          |                   |                        |             |                 |            |                              |          |                |            |              |                                             |       |      |         |      |

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## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60200938

| Sample: SHOAL INFLUENT A1      Lab ID: 60200938001      Collected: 08/19/15 07:30      Received: 08/19/15 18:25      Matrix: Water |         |       |              |     |    |                |                |         |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-----|----|----------------|----------------|---------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL | DF | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |     |    |                |                |         |      |
| Total Suspended Solids                                                                                                             | 120     | mg/L  | 5.0          | 5.0 | 1  |                | 08/24/15 12:01 |         |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |     |    |                |                |         |      |
| BOD, 5 day                                                                                                                         | 28.9    | mg/L  | 2.0          | 2.0 | 1  | 08/20/15 11:42 | 08/25/15 11:12 |         | 1e   |

| Sample: SHOAL EFFLUENT C2      Lab ID: 60200938002      Collected: 08/19/15 08:00      Received: 08/19/15 18:25      Matrix: Water |         |       |              |       |    |                |                |           |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|-----------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |       |    |                |                |           |      |
| Total Suspended Solids                                                                                                             | 128     | mg/L  | 5.0          | 5.0   | 1  |                | 08/24/15 12:01 |           |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |       |    |                |                |           |      |
| BOD, 5 day                                                                                                                         | 53.1    | mg/L  | 2.0          | 2.0   | 1  | 08/20/15 11:45 | 08/25/15 11:16 |           |      |
| 350.1 Ammonia      Analytical Method: EPA 350.1                                                                                    |         |       |              |       |    |                |                |           |      |
| Nitrogen, Ammonia                                                                                                                  | 3.1     | mg/L  | 0.20         | 0.093 | 2  |                | 08/25/15 10:16 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                               |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
|-----------------------------------------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------------|-------|------|---------|------|
| OF FACILITY                                   |                   |          |             |                 |       | CITY          |          |                |            |              | COUNTY/REGION           |       |      |         |      |
| Creek WWTP                                    |                   |          |             |                 |       | NEOSHO        |          |                |            |              | SPRINGFIELD             |       |      |         |      |
| 1st MONTH OF                                  |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              | TYPE TREATMENT FACILITY |       |      |         |      |
| st-08 015                                     |                   |          |             |                 |       | MO# 0104906   |          |                |            |              | OXI-DATION DITCH        |       |      |         |      |
| OUTFALL NUMBER                                |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                         |       |      |         |      |
| #001                                          |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
|                                               | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100       | OTHER | RAIN | WEATHER | TIME |
| 1                                             | 1.6               | 7.38     |             |                 | 22.5  | 7.60          |          |                | 24.5       | 3.44         | in/Lab                  |       | 0.00 |         |      |
| 2                                             | 1.0               | 7.79     |             |                 | 23.4  | 7.59          |          |                | 25.0       | 3.60         | in                      |       | 0.00 |         |      |
| 3                                             | 1.2               | 7.94     |             |                 | 24.2  | 7.60          |          |                | 24.5       | 3.42         | house                   |       | 0.00 |         |      |
| 4                                             | 1.7               | 7.79     |             |                 | 24.4  | 7.58          |          |                | 24.7       | 3.56         |                         |       | 0.00 |         |      |
| 5                                             | 3.1               | 7.28     | 260.0       | 104.0           | 22.5  | 7.60          | 2.7      | 5.0            | 24.3       | 3.27         | 25.0                    |       | 0.43 |         |      |
| 6                                             | 1.9               | 7.79     |             |                 | 22.4  | 7.34          |          |                | 24.3       | 4.58         |                         |       | 0.26 |         |      |
| 7                                             | 1.0               | 7.39     |             |                 | 23.3  | 7.29          |          |                | 23.2       | 3.92         |                         |       | 0.00 |         |      |
| 8                                             | 1.3               | 8.17     |             |                 | 23.4  | 7.75          |          |                | 25.3       | 4.77         |                         |       | 0.00 |         |      |
| 9                                             | 1.1               | 7.43     |             |                 | 23.1  | 7.65          |          |                | 25.2       | 4.49         |                         |       | 0.00 |         |      |
| 10                                            | 1.6               | 7.34     |             |                 | 27.0  | 7.48          |          |                | 26.6       | 4.28         |                         |       | 0.16 |         |      |
| 11                                            | 1.4               | 7.51     |             |                 | 26.1  | 7.67          |          |                | 26.7       | 3.90         |                         |       | 0.10 |         |      |
| 12                                            | 2.6               | 7.41     | 520.0       | 294.0           | 26.5  | 7.63          | 4.2      | 9.0            | 26.0       | 4.75         | 80.0                    |       | 0.00 |         |      |
| 13                                            | 1.6               | 7.58     |             |                 | 27.2  | 7.52          |          |                | 26.8       | 3.84         |                         |       | 0.00 |         |      |
| 14                                            | 1.5               | 7.16     |             |                 | 26.6  | 7.61          |          |                | 26.7       | 6.50         |                         |       | 0.00 |         |      |
| 15                                            | 1.3               | 7.43     |             |                 | 23.2  | 7.58          |          |                | 23.7       | 5.48         |                         |       | 0.00 |         |      |
| 16                                            | 1.2               | 7.23     |             |                 | 23.5  | 7.66          |          |                | 23.7       | 3.72         |                         |       | 0.00 |         |      |
| 17                                            | 1.5               | 7.60     |             |                 | 23.2  | 7.51          |          |                | 24.5       | 3.05         |                         |       | 0.00 |         |      |
| 18                                            | 1.6               | 7.61     |             |                 | 23.5  | 7.58          |          |                | 24.6       | 4.82         |                         |       | 0.55 |         |      |
| 19                                            | 3.1               | 7.01     | 28.9        | 120.0           | 22.1  | 7.40          | 53.1     | 128.0          | 23.2       | 3.61         | 68.0                    |       | 3.70 |         |      |
| 20                                            | 2.9               | 7.20     |             |                 | 21.5  | 7.11          |          |                | 22.6       | 5.06         |                         |       | 0.10 |         |      |
| 21                                            | 2.7               | 7.39     |             |                 | 21.6  | 7.56          |          |                | 22.4       | 3.86         |                         |       | 0.00 |         |      |
| 22                                            | 2.4               | 7.68     |             |                 | 21.8  | 7.59          |          |                | 22.5       | 4.72         |                         |       | 0.18 |         |      |
| 23                                            | 4.3               | 7.19     |             |                 | 21.8  | 7.47          |          |                | 22.6       | 2.60         |                         |       | 1.18 |         |      |
| 24                                            | 3.4               | 7.28     |             |                 | 23.3  | 7.47          |          |                | 23.3       | 3.36         |                         |       | 0.00 |         |      |
| 25                                            | 2.2               | 7.34     | 307.0       | 365.0           | 22.3  | 7.44          | 2.0      | 5.0            | 23.0       | 2.53         | 10.0                    |       | 0.00 |         |      |
| 26                                            | 1.5               | 7.19     |             |                 | 20.1  | 7.55          |          |                | 21.3       | 3.55         |                         |       | 0.00 |         |      |
| 27                                            | 1.4               | 7.24     |             |                 | 21.1  | 7.51          |          |                | 22.3       | 5.44         |                         |       | 0.00 |         |      |
| 28                                            | 1.3               | 7.31     |             |                 | 21.1  | 7.53          |          |                | 22.2       | 6.45         |                         |       | 0.00 |         |      |
| 29                                            | 1.7               | 7.25     |             |                 | 21.2  | 7.55          |          |                | 22.4       | 6.50         |                         |       | 0.00 |         |      |
| 30                                            | 1.8               | 7.30     |             |                 | 21.1  | 7.55          |          |                | 22.3       | 6.20         |                         |       | 0.00 |         |      |
| 31                                            | 1.7               | 7.44     |             |                 | 22.3  | 7.56          |          |                | 22.7       | 5.68         |                         |       | 0.00 |         |      |
| Samp.                                         |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| Samp.                                         | 58.6              | 230.7    | 1115.9      | 883.0           | 717.3 | 233.5         | 62.0     | 147.0          |            | 135.0        |                         |       |      |         |      |
| / Avg.                                        | 3.3               |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                         |       |      |         |      |
| Max.                                          | 4.3               | 8.2      | 520.0       | 365.0           | 27.2  | 7.8           | 53.1     | 128.0          | 26.8       | 6.5          | 80.0                    |       |      |         |      |
| Min.                                          | 1.0               | 7.0      |             |                 | 20.1  | 7.1           |          |                | 21.3       | 2.5          | 10.0                    |       |      |         |      |
| Avg.                                          |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                   | COUNTY/REGION           |      |         |      |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|-------------------|-------------------------|------|---------|------|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                   | SPRINGFIELD             |      |         |      |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                   | TYPE TREATMENT FACILITY |      |         |      |  |  |
| December-13      |                   |          |             |                 |            | MO# 0104906   |          |                |            |              |                   | OXI-DATION DITCH        |      |         |      |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                   |                         |      |         |      |  |  |
| JAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100 | SNOW                    | RAIN | WEATHER | TIME |  |  |
| 1                | 1.2               | 6.97     |             |                 | 14.3       | 7.09          |          |                | 13.1       | 2.69         |                   |                         |      |         |      |  |  |
| 2                | 1.1               | 7.03     |             |                 | 19.4       | 7.22          |          |                | 16.8       | 3.55         |                   |                         |      |         |      |  |  |
| 3                | 1.5               | 7.38     |             |                 | 18.0       | 7.27          |          |                | 16.4       | 3.20         |                   |                         |      |         |      |  |  |
| 4                | 1.6               | 7.37     | 142.0       | 146.0           | 12.3       | 7.18          | 4.4      | 5.0            | 14.5       | 3.50         |                   |                         |      |         |      |  |  |
| 5                | 2.5               | 7.50     |             |                 | 13.1       | 7.32          |          |                | 13.0       | 3.56         |                   |                         |      |         |      |  |  |
| 6                | 1.0               | 8.05     |             |                 | 12.7       | 7.35          |          |                | 11.7       | 4.68         |                   | 0.45                    | 5.0  |         |      |  |  |
| 7                | 1.4               | 7.67     |             |                 | 13.3       | 7.36          |          |                | 11.6       | 4.78         |                   | 0.10                    | 1.0  |         |      |  |  |
| 8                | 1.4               | 7.70     |             |                 | 14.2       | 7.31          |          |                | 12.1       | 4.67         |                   |                         |      |         |      |  |  |
| 9                | 1.1               | 7.81     |             |                 | 11.3       | 7.40          |          |                | 13.6       | 3.88         |                   |                         |      |         |      |  |  |
| 10               | 2.2               | 7.74     |             |                 | 11.6       | 7.17          |          |                | 10.0       | 6.25         |                   | 1.90                    | 3.0  |         |      |  |  |
| 11               | 1.0               | 7.52     |             |                 | 12.5       | 7.15          |          |                | 10.4       | 5.90         |                   |                         |      |         |      |  |  |
| 12               | 1.0               | 7.60     |             |                 | 13.3       | 7.27          |          |                | 11.7       | 5.30         |                   |                         |      |         |      |  |  |
| 13               | 1.6               | 7.47     | 198         | 227             | 11.8       | 7.18          | 12.3     | 8.0            | 10.8       | 7.85         |                   | 0.02                    |      |         |      |  |  |
| 14               | 2.6               | 7.23     |             |                 | 11.6       | 7.03          |          |                | 9.4        | 5.07         |                   | 0.63                    |      |         |      |  |  |
| 15               | 2.4               | 7.38     |             |                 | 12.9       | 7.22          |          |                | 10.4       | 5.38         |                   |                         |      |         |      |  |  |
| 16               | 2.1               | 7.34     |             |                 | 13.3       | 7.23          |          |                | 11.8       | 6.25         |                   |                         |      |         |      |  |  |
| 17               | 2.1               | 7.29     |             |                 | 13.1       | 7.14          |          |                | 11.6       | 4.44         |                   |                         |      |         |      |  |  |
| 18               | 1.5               | 7.37     | 139.0       | 131.0           | 13.7       | 7.31          | 3.6      | 5.0            | 12.9       | 6.06         |                   |                         |      |         |      |  |  |
| 19               | 2.2               | 7.41     |             |                 | 12.1       | 7.19          |          |                | 14.1       | 5.80         |                   |                         |      |         |      |  |  |
| 20               | 1.6               | 7.34     |             |                 | 13.0       | 7.24          |          |                | 14.0       | 4.89         |                   |                         |      |         |      |  |  |
| 21               | 2.3               | 7.29     |             |                 | 10.3       | 7.19          |          |                | 10.7       | 7.09         |                   | 1.04                    |      |         |      |  |  |
| 22               | 2.3               | 7.30     |             |                 | 13.1       | 7.22          |          |                | 13.6       | 7.04         |                   | 0.24                    |      |         |      |  |  |
| 23               | 2.5               | 7.40     |             |                 | 10.2       | 7.30          |          |                | 7.8        | 8.24         |                   |                         |      |         |      |  |  |
| 24               | 2.1               | 7.34     | 128.0       | 169.0           | 10.6       | 7.41          | 7.0      | 21.0           | 9.4        | 7.64         |                   |                         |      |         |      |  |  |
| 25               | 1.1               | 7.51     |             |                 | 12.6       | 7.10          |          |                | 10.2       | 6.11         |                   |                         |      |         |      |  |  |
| 26               | 1.3               | 7.47     |             |                 | 13.9       | 7.36          |          |                | 11.4       | 4.32         |                   |                         |      |         |      |  |  |
| 27               | 1.0               | 7.39     |             |                 | 14.4       | 7.41          |          |                | 12.9       | 4.86         |                   |                         |      |         |      |  |  |
| 28               | 1.6               | 7.41     |             |                 | 13.4       | 7.29          |          |                | 11.4       | 5.89         |                   |                         |      |         |      |  |  |
| 29               | 2.0               | 7.34     |             |                 | 11.2       | 7.36          |          |                | 10.8       | 4.26         |                   |                         |      |         |      |  |  |
| 30               | 1.5               | 7.60     |             |                 | 10.6       | 7.32          |          |                | 10.2       | 5.40         |                   |                         |      |         |      |  |  |
| 31               | 2.2               | 7.56     |             |                 | 14.4       | 7.40          |          |                | 12.5       | 5.44         |                   |                         |      |         |      |  |  |
| No. of Samp.     | 31.0              | 31.0     | 4.0         | 4.0             | 31.0       | 31.0          | 4.0      | 4.0            | 31.0       | 31.0         | 0.0               | 4.38                    | 9.0  |         |      |  |  |
| Tot of Samp.     | 53.0              |          | 607.0       | 673.0           | 402.2      | 225.0         | 27.3     | 39.0           | 370.8      | 164.0        | 0.0               |                         |      |         |      |  |  |
| Monthly Avg.     | 1.7               |          | 151.8       | 168.3           |            |               | 6.8      | 9.8            |            |              | #DIV/0!           |                         |      |         |      |  |  |
| Daily Max.       | 2.6               | 8.1      | 198.0       | 227.0           | 19.4       | 7.4           | 12.3     | 21.0           | 16.8       | 8.2          | 0.0               |                         |      |         |      |  |  |
| Daily Min.       |                   | 7.0      |             |                 | 10.2       | 7.0           |          |                | 7.8        | 2.7          | 0.0               |                         |      |         |      |  |  |
| Max 7/Avg.       |                   |          |             |                 |            |               |          |                |            |              |                   |                         |      |         |      |  |  |

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## ANALYTICAL RESULTS

Project: Shoal 12/24/13  
Pace Project No.: 60160316

| Sample: SHOAL INFLUENT-(A1)         |                                                          | Lab ID: 60160316001 | Collected: 12/24/13 07:15 | Received: 12/24/13 14:15 | Matrix: Water  |                |         |      |
|-------------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                          | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b> | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |         |      |
| Total Suspended Solids              | 169                                                      | mg/L                | 5.0                       | 1                        |                | 12/30/13 09:53 |         |      |
| <b>5210B BOD, 5 day</b>             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |         |      |
| BOD, 5 day                          | 128                                                      | mg/L                | 2.0                       | 1                        | 12/25/13 12:32 | 12/30/13 13:20 |         |      |

| Sample: SHOAL EFFLUENT-(C2)         |                                                          | Lab ID: 60160316002 | Collected: 12/24/13 07:30 | Received: 12/24/13 14:15 | Matrix: Water  |                |           |      |
|-------------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                          | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>2540D Total Suspended Solids</b> | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |           |      |
| Total Suspended Solids              | 21.0                                                     | mg/L                | 5.0                       | 1                        |                | 12/30/13 09:53 |           |      |
| <b>5210B BOD, 5 day</b>             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |           |      |
| BOD, 5 day                          | 7.0                                                      | mg/L                | 2.0                       | 1                        | 12/25/13 12:38 | 12/30/13 13:22 |           |      |
| <b>350.1 Ammonia</b>                | Analytical Method: EPA 350.1                             |                     |                           |                          |                |                |           |      |
| Nitrogen, Ammonia                   | ND                                                       | mg/L                | 0.10                      | 1                        |                | 01/08/14 10:57 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SHOAL 2/13/14  
Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]  |         | Lab ID: 60162938001                                      | Collected: 02/13/14 07:15 | Received: 02/13/14 18:40 | Matrix: Water  |                |         |      |
|------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                   | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids |         | Analytical Method: SM 2540D                              |                           |                          |                |                |         |      |
| Total Suspended Solids       | 360     | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:08 |         |      |
| 5210B BOD, 5 day             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |         |      |
| BOD, 5 day                   | 212     | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]  |         | Lab ID: 60162938002                                      | Collected: 02/13/14 07:30 | Received: 02/13/14 18:40 | Matrix: Water  |                |           |      |
|------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                   | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids |         | Analytical Method: SM 2540D                              |                           |                          |                |                |           |      |
| Total Suspended Solids       | 21.0    | mg/L                                                     | 5.0                       | 1                        |                | 02/19/14 11:09 |           |      |
| 5210B BOD, 5 day             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |           |      |
| BOD, 5 day                   | 63.6    | mg/L                                                     | 2.0                       | 1                        | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| 350.1 Ammonia                |         | Analytical Method: EPA 350.1                             |                           |                          |                |                |           |      |
| Nitrogen, Ammonia            | 0.12    | mg/L                                                     | 0.10                      | 1                        |                | 02/18/14 13:20 | 7664-41-7 |      |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |      |      |         |      |
|---------------------------------------------|-------------------|----------|-------------------------------|-----------------|------------|-------------------------------------|----------|----------------|------------|--------------|----------------------------------------------------|------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |                   |          |                               |                 |            | CITY<br><b>NEOSHO</b>               |          |                |            |              | COUNTY/REGION<br><b>SPRINGFIELD</b>                |      |      |         |      |
| FOR THE MONTH OF<br><b>FEBURARY-2014</b>    |                   |          | OUTFALL NUMBER<br><b>#001</b> |                 |            | PERMIT NUMBER<br><b>MO# 0104906</b> |          |                |            |              | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |      |      |         |      |
| INFLUENT                                    |                   |          |                               |                 |            | EFFLUENT                            |          |                |            |              |                                                    |      |      |         |      |
| DAY                                         | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L                   | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                            | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100                                   | SNOW | RAIN | WEATHER | TIME |
| 1                                           | 1.30              | 7.35     |                               |                 | 11.4       | 7.28                                |          |                | 11.0       | 7.78         |                                                    |      | 0.11 |         |      |
| 2                                           | 1.36              | 7.35     |                               |                 | 11.4       | 7.20                                |          |                | 10.7       | 4.44         |                                                    |      |      |         |      |
| 3                                           | 1.52              | 7.38     |                               |                 | 11.5       | 7.06                                |          |                | 10.6       | 5.79         |                                                    |      |      |         |      |
| 4                                           | 1.20              | 7.66     |                               |                 | 9.7        | 7.29                                |          |                | 9.5        | 6.60         |                                                    |      | 0.01 |         |      |
| 5                                           | 1.0               | 7.70     |                               |                 | 7.3        | 7.42                                |          |                | 10.6       | 8.52         |                                                    | 2.0  | 0.2  |         |      |
| 6                                           | 1.0               | 7.71     |                               |                 | 8.3        | 7.40                                |          |                | 7.9        | 8.81         |                                                    |      |      |         |      |
| 7                                           | 1.40              | 8.21     | 196.0                         | 410.0           | 9.0        | 7.46                                | 13.4     | 13.0           | 7.6        | 8.74         |                                                    |      |      |         |      |
| 8                                           | 1.50              | 7.64     |                               |                 | 10.4       | 7.23                                |          |                | 9.2        | 7.14         |                                                    |      |      |         |      |
| 9                                           | 1.40              | 7.58     |                               |                 | 9.6        | 7.39                                |          |                | 9.0        | 6.47         |                                                    |      |      |         |      |
| 10                                          | 1.40              | 7.70     |                               |                 | 9.8        | 7.07                                |          |                | 8.6        | 6.87         |                                                    |      | 0.01 |         |      |
| 11                                          | 2.20              | 7.77     |                               |                 | 10.2       | 7.21                                |          |                | 8.9        | 5.03         |                                                    |      |      |         |      |
| 12                                          | 1.0               | 8.93     |                               |                 | 11.0       | 7.15                                |          |                | 9.0        | 5.82         |                                                    |      |      |         |      |
| 13                                          | 1.40              | 7.04     | 212                           | 360             | 14.2       | 7.26                                | 63.6     | 21.0           | 11.2       | 4.92         |                                                    |      |      |         |      |
| 14                                          | 1.90              | 7.62     |                               |                 | 10.0       | 7.22                                |          |                | 10.9       | 5.26         |                                                    |      |      |         |      |
| 15                                          | 1.20              | 7.12     |                               |                 | 9.1        | 7.27                                |          |                | 8.9        | 4.95         |                                                    |      |      |         |      |
| 16                                          | 1.20              | 7.33     |                               |                 | 10.8       | 7.28                                |          |                | 9.5        | 3.59         |                                                    |      |      |         |      |
| 17                                          | 1.30              | 7.41     |                               |                 | 13.1       | 7.30                                |          |                | 12.1       | 3.79         |                                                    |      |      |         |      |
| 18                                          | 1.00              | 7.54     |                               |                 | 18.8       | 7.40                                |          |                | 14.0       | 4.05         |                                                    |      |      |         |      |
| 19                                          | 1.40              | 9.21     | 39.2                          | 594.0           | 14.7       | 7.33                                | 2.0      | 16.0           | 14.0       | 5.75         |                                                    |      |      |         |      |
| 20                                          | 1.50              | 8.34     |                               |                 | 14.1       | 7.40                                |          |                | 12.0       | 6.94         |                                                    |      | 0.09 |         |      |
| 21                                          | 1.10              | 7.76     |                               |                 | 13.3       | 7.32                                |          |                | 11.0       | 3.07         |                                                    |      |      |         |      |
| 22                                          | 1.10              | 7.71     |                               |                 | 11.7       | 7.02                                |          |                | 11.7       | 5.38         |                                                    |      |      |         |      |
| 23                                          | 1.20              | 7.95     |                               |                 | 11.1       | 7.18                                |          |                | 11.3       | 5.06         |                                                    |      |      |         |      |
| 24                                          | 1.80              | 7.67     |                               |                 | 13.1       | 7.35                                |          |                | 12.7       | 4.00         |                                                    |      |      |         |      |
| 25                                          | 1.90              | 8.04     |                               |                 | 12.6       | 7.52                                |          |                | 10.8       | 6.09         |                                                    |      |      |         |      |
| 26                                          | 1.00              | 8.21     | 137.0                         | 396.0           | 10.2       | 7.50                                | 12.3     | 20.0           | 9.7        | 7.37         |                                                    |      |      |         |      |
| 27                                          | 2.00              | 7.67     |                               |                 | 14.0       | 7.46                                |          |                | 11.0       | 5.25         |                                                    |      |      |         |      |
| 28                                          | 2.70              | 7.95     |                               |                 | 10.6       | 7.37                                |          |                | 11.3       | 7.20         |                                                    |      |      |         |      |
| 29                                          |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |      |      |         |      |
| 30                                          |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |      |      |         |      |
| 31                                          |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |      |      |         |      |
| to. of Samp.                                | 28.0              | 28.0     | 4.0                           | 4.0             | 28.0       | 28.0                                | 4.0      | 4.0            | 28.0       | 28.0         | 0.0                                                |      |      |         |      |
| ot of Samp.                                 | 40.0              |          | 584.2                         | 1760.0          | 321.0      | 204.3                               | 91.3     | 70.0           | 294.7      | 164.7        | 0.0                                                |      |      |         |      |
| onthly Avg.                                 | 1.4               |          | 146.1                         | 440.0           |            |                                     | 22.8     | 17.5           |            |              | #DIV/0!                                            |      |      |         |      |
| aily Max.                                   | 2.7               | 9.2      | 212.0                         | 594.0           | 18.8       | 7.5                                 | 63.6     | 21.0           | 14.0       | 8.8          | 0.0                                                |      |      |         |      |
| aily Min.                                   |                   | 7.0      |                               |                 | 7.3        | 7.0                                 |          |                | 7.6        | 3.1          | 0.0                                                |      |      |         |      |
| ax 7/Avg.                                   |                   |          |                               |                 |            |                                     |          |                |            |              |                                                    |      |      |         |      |

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0 780-1308 (6-03)



## ANALYTICAL RESULTS

Project: SHOAL 2/13/14  
Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]         |                                                          | Lab ID: 60162938001 | Collected: 02/13/14 07:15 | Received: 02/13/14 18:40 | Matrix: Water  |                |         |      |
|-------------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                          | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b> | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |         |      |
| Total Suspended Solids              | 360                                                      | mg/L                | 5.0                       | 1                        |                | 02/19/14 11:08 |         |      |
| <b>5210B BOD, 5 day</b>             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |         |      |
| BOD, 5 day                          | 212                                                      | mg/L                | 2.0                       | 1                        | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]         |                                                          | Lab ID: 60162938002 | Collected: 02/13/14 07:30 | Received: 02/13/14 18:40 | Matrix: Water  |                |           |      |
|-------------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                          | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>2540D Total Suspended Solids</b> | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |           |      |
| Total Suspended Solids              | 21.0                                                     | mg/L                | 5.0                       | 1                        |                | 02/19/14 11:09 |           |      |
| <b>5210B BOD, 5 day</b>             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |           |      |
| BOD, 5 day                          | 63.6                                                     | mg/L                | 2.0                       | 1                        | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| <b>350.1 Ammonia</b>                | Analytical Method: EPA 350.1                             |                     |                           |                          |                |                |           |      |
| Nitrogen, Ammonia                   | 0.12                                                     | mg/L                | 0.10                      | 1                        |                | 02/18/14 13:20 | 7664-41-7 |      |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>HOAL CREEK WWTP |                   |                        |             |                 |            | CITY<br>NEOSHO               |          |                |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
|-------------------------------------|-------------------|------------------------|-------------|-----------------|------------|------------------------------|----------|----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| OR THE MONTH OF<br>April-14         |                   | OUTFALL NUMBER<br>#001 |             |                 |            | PERMIT NUMBER<br>MO# 0104906 |          |                |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| INFLUENT                            |                   |                        |             |                 |            | EFFLUENT                     |          |                |            |              |                                             |       |      |         |      |
| DAY                                 | FLOW:<br>MGD EFF. | PH UNITS               | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                     | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                   | 1.0               | 7.65                   |             |                 | 14         | 7.38                         |          |                | 14         | 5.82         |                                             |       |      |         |      |
| 2                                   | 1.4               | 7.60                   | 248.0       | 283.0           | 16.4       | 7.37                         | 12.2     | 9.0            | 16.2       | 5.90         | 150.0                                       |       |      |         |      |
| 3                                   | 1.0               | 7.64                   |             |                 | 19.0       | 7.40                         |          |                | 18.0       | 5.52         |                                             |       |      |         |      |
| 4                                   | 1.0               | 7.84                   |             |                 | 13.7       | 7.52                         |          |                | 14.4       | 5.86         |                                             |       |      |         |      |
| 5                                   | 0.8               | 7.61                   |             |                 | 13.4       | 7.35                         |          |                | 13.6       | 5.09         |                                             |       |      |         |      |
| 6                                   | 0.5               | 7.7                    |             |                 | 14.1       | 7.19                         |          |                | 15.6       | 4.52         |                                             |       |      |         |      |
| 7                                   | 1.1               | 7.69                   |             |                 | 17.0       | 7.35                         |          |                | 15.0       | 4.60         |                                             |       |      |         |      |
| 8                                   | 1.0               | 7.66                   |             |                 | 14.3       | 7.42                         |          |                | 14.6       | 4.77         |                                             |       |      |         |      |
| 9                                   | 1.1               | 7.58                   | 446.0       | 167.0           | 19.3       | 7.33                         | 14.6     | 20.0           | 16.4       | 5.00         | 75.0                                        |       |      |         |      |
| 10                                  | 1.0               | 7.63                   |             |                 | 17.5       | 7.33                         |          |                | 17.0       | 4.70         |                                             |       |      |         |      |
| 11                                  | 1.5               | 7.62                   |             |                 | 15.4       | 7.42                         |          |                | 15.6       | 4.64         |                                             |       |      |         |      |
| 12                                  | 0.9               | 7.59                   |             |                 | 19.6       | 7.36                         |          |                | 18.6       | 3.86         |                                             |       |      |         |      |
| 13                                  | 0.7               | 7.60                   |             |                 | 18.5       | 7.42                         |          |                | 18.3       | 4.20         |                                             |       |      |         |      |
| 14                                  | 1.0               | 8.10                   |             |                 | 13.1       | 7.35                         |          |                | 15.0       | 4.46         |                                             |       |      |         |      |
| 15                                  | 1.0               | 7.65                   |             |                 | 17.1       | 7.37                         |          |                | 16.4       | 4.75         |                                             |       |      |         |      |
| 16                                  | 2.7               | 7.78                   | 191.0       | 78.0            | 16.3       | 7.40                         | 10.1     | 16.0           | 16.0       | 4.50         | 80.0                                        |       |      |         |      |
| 17                                  | 1.0               | 7.78                   |             |                 | 16.1       | 7.38                         |          |                | 16.2       | 3.92         |                                             |       |      |         |      |
| 18                                  | 1.0               | 7.83                   |             |                 | 16.8       | 7.37                         |          |                | 15.8       | 5.90         |                                             |       |      |         |      |
| 19                                  | 0.7               | 7.60                   |             |                 | 14.1       | 7.21                         |          |                | 14.7       | 7.38         |                                             |       |      |         |      |
| 20                                  | 2.0               | 7.66                   |             |                 | 16.7       | 7.19                         |          |                | 16.5       | 5.70         |                                             |       |      |         |      |
| 21                                  | 1.0               | 8.55                   |             |                 | 17.7       | 7.32                         |          |                | 18.7       | 4.05         |                                             |       |      |         |      |
| 22                                  | 1.4               | 8.44                   |             |                 | 18.1       | 7.36                         |          |                | 18.0       | 4.15         |                                             |       |      |         |      |
| 23                                  | 1.4               | 7.85                   | 1320.0      | 407.0           | 18.8       | 7.35                         | 13.8     | 7.0            | 17.7       | 3.15         | 100.0                                       |       |      |         |      |
| 24                                  | 1.0               | 8.16                   |             |                 | 18.2       | 7.32                         |          |                | 20.0       | 3.98         |                                             |       |      |         |      |
| 25                                  | 1.0               | 7.70                   |             |                 | 18.8       | 7.36                         |          |                | 19.0       | 4.78         |                                             |       |      |         |      |
| 26                                  | 1.7               | 7.58                   |             |                 | 17.4       | 7.35                         |          |                | 18.2       | 5.61         |                                             |       |      |         |      |
| 27                                  | 0.6               | 7.55                   |             |                 | 18.8       | 7.24                         |          |                | 19.6       | 4.78         |                                             |       |      |         |      |
| 28                                  | 1.5               | 7.60                   |             |                 | 19.6       | 7.29                         |          |                | 19.2       | 4.33         |                                             |       |      |         |      |
| 29                                  | 1.5               | 7.63                   |             |                 | 15.0       | 7.40                         |          |                | 16.0       | 5.75         |                                             |       |      |         |      |
| 30                                  | 1.3               | 7.60                   | 582.0       | 1050.0          | 16.2       | 7.40                         | 38.6     | 21.0           | 16.6       | 5.00         | 8.0                                         |       |      |         |      |
| 31                                  |                   |                        |             |                 |            |                              |          |                |            |              |                                             |       |      |         |      |
| 3. of Samp.                         | 30.0              | 30.0                   | 5.0         | 5.0             | 30.0       | 30.0                         | 5.0      | 5.0            | 30.0       | 30.0         | 5.0                                         |       |      |         |      |
| it of Samp.                         | 34.7              |                        | 2787.0      | 1985.0          | 501.0      | 220.5                        | 89.3     | 73.0           | 500.9      | 146.7        | 413.0                                       |       |      |         |      |
| onthly Avg.                         | 1.2               |                        | 557.4       | 397.0           |            |                              | 17.9     | 14.6           |            |              | 82.6                                        |       |      |         |      |
| ily Max.                            | 2.7               | 8.6                    | 1320.0      | 1050.0          | 19.6       | 7.5                          | 38.6     | 21.0           | 20.0       | 7.4          | 150.0                                       |       |      |         |      |
| ily Min.                            |                   | 7.6                    |             |                 | 13.1       | 7.2                          |          |                | 13.6       | 3.2          | 8.0                                         |       |      |         |      |
| ax 7/Avg.                           |                   |                        |             |                 |            |                              |          |                |            |              |                                             |       |      |         |      |

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1780-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |                   |                               |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |
|---------------------------------------------|-------------------|-------------------------------|-------------|-----------------|------------|-------------------------------------|----------|----------------|------------|--------------|-------------------|----------------------------------------------------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |                   |                               |             |                 |            | CITY<br><b>NEOSHO</b>               |          |                |            |              |                   | COUNTY/REGION<br><b>SPRINGFIELD</b>                |      |         |      |
| FOR THE MONTH OF<br><b>April-13</b>         |                   | OUTFALL NUMBER<br><b>#001</b> |             |                 |            | PERMIT NUMBER<br><b>MO# 0104906</b> |          |                |            |              |                   | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |      |         |      |
| INFLUENT                                    |                   |                               |             |                 |            | EFFLUENT                            |          |                |            |              |                   |                                                    |      |         |      |
| DAY                                         | FLOW:<br>MGD EFF. | PH UNITS                      | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                            | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | OTHER                                              | RAIN | WEATHER | TIME |
| 1                                           | 0.9               | 7.75                          |             |                 | 14.6       | 7.41                                |          |                | 14.9       | 5.54         |                   |                                                    |      |         |      |
| 2                                           | 1.10              | 7.94                          |             |                 | 13.0       | 7.30                                |          |                | 12.2       | 5.50         |                   |                                                    | 0.22 |         |      |
| 3                                           | 2.40              | 7.67                          | 211.0       | 91.0            | 14.0       | 7.40                                | 3.8      | 5.0            | 12.7       | 5.15         | 165.0             |                                                    | 0.27 |         |      |
| 4                                           | 1.30              | 7.84                          |             |                 | 15.5       | 7.33                                |          |                | 14.0       | 4.90         |                   |                                                    |      |         |      |
| 5                                           | 1.40              | 7.65                          |             |                 | 18.9       | 7.31                                |          |                | 15.6       | 4.72         |                   |                                                    |      |         |      |
| 6                                           | 1.37              | 7.61                          |             |                 | 14.8       | 7.41                                |          |                | 14.5       | 5.72         |                   |                                                    |      |         |      |
| 7                                           | 1.47              | 7.73                          |             |                 | 16.7       | 7.33                                |          |                | 15.3       | 4.09         |                   |                                                    |      |         |      |
| 8                                           | 1.10              | 7.67                          |             |                 | 21.9       | 7.45                                |          |                | 19.2       | 4.61         |                   |                                                    |      |         |      |
| 9                                           | 1.40              | 7.35                          |             |                 | 18.7       | 7.66                                |          |                | 19.8       | 4.46         |                   |                                                    |      |         |      |
| 10                                          | 1.40              | 7.50                          |             |                 | 15.0       | 6.90                                |          |                | 15.4       | 4.20         |                   |                                                    | 0.55 |         |      |
| 11                                          | 3.60              | 7.45                          | 91.9        | 85.0            | 14.0       | 7.43                                | 5.4      | 12.0           | 12.7       | 6.91         | 115.0             |                                                    | 1.55 |         |      |
| 12                                          | 1.80              | 7.53                          |             |                 | 15.0       | 7.59                                |          |                | 14.0       | 5.80         |                   |                                                    |      |         |      |
| 13                                          | 1.76              | 7.57                          |             |                 | 12.5       | 7.27                                |          |                | 15.5       | 5.43         |                   |                                                    |      |         |      |
| 14                                          | 1.80              | 7.58                          |             |                 | 15.8       | 7.35                                |          |                | 16.7       | 5.08         |                   |                                                    |      |         |      |
| 15                                          | 1.60              | 7.51                          |             |                 | 19.8       | 7.07                                |          |                | 17.6       | 4.68         |                   |                                                    |      |         |      |
| 16                                          | 1.50              | 7.63                          |             |                 | 17.5       | 7.26                                |          |                | 16.7       | 5.00         |                   |                                                    |      |         |      |
| 17                                          | 1.60              | 7.61                          |             |                 | 20.4       | 7.31                                |          |                | 18.6       | 5.58         |                   |                                                    |      |         |      |
| 18                                          | 4.60              | 8.42                          | 146.0       | 270.0           | 14.1       | 7.37                                | 4.0      | 11.0           | 15.0       | 6.33         | 93.0              |                                                    | 1.90 |         |      |
| 19                                          | 3.70              | 8.12                          |             |                 | 16.6       | 7.38                                |          |                | 14.4       | 6.15         |                   |                                                    |      |         |      |
| 20                                          | 3.40              | 7.52                          |             |                 | 16.1       | 7.32                                |          |                | 15.3       | 6.10         |                   |                                                    |      |         |      |
| 21                                          | 2.30              | 7.63                          |             |                 | 16.7       | 7.38                                |          |                | 16.1       | 6.13         |                   |                                                    |      |         |      |
| 22                                          | 2.00              | 7.49                          |             |                 | 18.3       | 7.31                                |          |                | 17.0       | 6.79         |                   |                                                    |      |         |      |
| 23                                          | 2.30              | 7.54                          |             |                 | 13.4       | 7.70                                |          |                | 13.9       | 5.55         |                   |                                                    | 0.36 |         |      |
| 24                                          | 1.76              | 8.60                          |             |                 | 16.0       | 7.34                                |          |                | 14.5       | 5.96         |                   |                                                    | 0.09 |         |      |
| 25                                          | 1.70              | 7.56                          | 229.0       | 150.0           | 18.0       | 7.26                                | 5.2      | 5.0            | 16.6       | 6.67         | 30.0              |                                                    |      |         |      |
| 26                                          | 1.70              | 7.61                          |             |                 | 15.6       | 7.22                                |          |                | 16.0       | 6.35         |                   |                                                    | 0.12 |         |      |
| 27                                          | 2.40              | 7.50                          |             |                 | 14.3       | 7.33                                |          |                | 13.8       | 5.78         |                   |                                                    | 0.90 |         |      |
| 28                                          | 2.20              | 7.58                          |             |                 | 16.2       | 7.28                                |          |                | 15.0       | 5.29         |                   |                                                    | 0.15 |         |      |
| 29                                          | 2.70              | 7.61                          |             |                 | 19.6       | 7.33                                |          |                | 18.0       | 3.47         |                   |                                                    |      |         |      |
| 30                                          | 2.30              | 7.68                          |             |                 | 18.9       | 7.21                                |          |                | 18.4       | 3.18         |                   |                                                    |      |         |      |
| 31                                          |                   |                               |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |
| No. of Samp.                                | 30.0              | 30.0                          | 4.0         | 4.0             | 30.0       | 30.0                                | 4.0      | 4.0            | 30.0       | 30.0         | 4.0               |                                                    |      |         |      |
| Vol of Samp.                                | 60.6              |                               | 677.9       | 596.0           | 491.9      | 220.2                               | 18.4     | 33.0           | 469.4      | 161.1        | 403.0             |                                                    |      |         |      |
| Monthly Avg.                                | 2.0               |                               | 169.5       | 149.0           |            |                                     | 4.6      | 8.3            |            |              | 100.8             |                                                    |      |         |      |
| Daily Max.                                  | 4.6               | 8.6                           | 229.0       | 270.0           | 21.9       | 7.7                                 | 5.4      | 12.0           | 19.8       | 6.9          | 165.0             |                                                    |      |         |      |
| Daily Min.                                  |                   | 7.4                           |             |                 | 12.5       | 6.9                                 |          |                | 12.2       | 3.2          | 30.0              |                                                    |      |         |      |
| Avg 7/Avg.                                  |                   |                               |             |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

780-1308 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY  |                   |          |             |                 |       | CITY          |          |                |            |              | COUNTY/REGION           |       |      |         |      |
|-------------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------------|-------|------|---------|------|
| Inlet Creek WWTP  |                   |          |             |                 |       | NEOSHO        |          |                |            |              | SPRINGFIELD             |       |      |         |      |
| DATE THE MONTH OF |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              | TYPE TREATMENT FACILITY |       |      |         |      |
| June-16           |                   |          |             |                 |       | MO# 0104906   |          |                |            |              | OXI-DATION DITCH        |       |      |         |      |
| INFLUENT          |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                         |       |      |         |      |
| DAY               | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100       | OTHER | RAIN | WEATHER | TIME |
| 1                 | 5.1               | 6.80     |             |                 | 17.5  | 7.13          |          |                | 18.2       | 4.88         |                         |       |      |         |      |
| 2                 | 4.0               | 6.97     |             |                 | 18.3  | 7.27          |          |                | 19.0       | 5.00         |                         |       |      |         |      |
| 3                 | 4.3               | 6.97     | 87.4        | 49.0            | 19.1  | 7.29          | 4.9      | 12.0           | 20.3       | 4.97         | 36400                   |       |      |         |      |
| 4                 | 3.5               | 6.84     |             |                 | 20.3  | 7.33          |          |                | 20.7       | 4.92         |                         |       |      |         |      |
| 5                 | 3.0               | 7.07     |             |                 | 19.1  | 7.43          |          |                | 19.6       | 4.88         |                         |       |      |         |      |
| 6                 | 2.0               | 7.04     |             |                 | 19.0  | 7.39          |          |                | 19.5       | 4.91         |                         |       |      |         |      |
| 7                 | 2.2               | 7.10     |             |                 | 18.9  | 7.29          |          |                | 19.7       | 4.52         |                         |       |      |         |      |
| 8                 | 1.7               | 7.15     |             |                 | 20.7  | 6.98          |          |                | 20.3       | 4.46         |                         |       |      |         |      |
| 9                 | 2.4               | 7.07     |             |                 | 20.8  | 7.28          |          |                | 21.4       | 4.27         |                         |       |      |         |      |
| 10                | 2.3               | 6.70     | 147.0       | 77.3            | 21.9  | 7.23          | 40.7     | 19.0           | 22.6       | 3.13         | 19863.0                 |       |      |         |      |
| 11                | 1.8               | 7.02     |             |                 | 20.6  | 7.20          |          |                | 22.1       | 2.89         |                         |       |      |         |      |
| 12                | 1.8               | 7.00     |             |                 | 21.1  | 7.09          |          |                | 22.2       | 2.80         |                         |       |      |         |      |
| 13                | 2.3               | 6.97     |             |                 | 22.1  | 7.14          |          |                | 22.7       | 2.79         |                         |       |      |         |      |
| 14                | 2.4               | 7.13     |             |                 | 21.70 | 7.11          |          |                | 22.3       | 2.22         |                         |       |      |         |      |
| 15                | 2.5               | 7.28     |             |                 | 21.4  | 7.19          |          |                | 23.2       | 3.00         |                         |       |      |         |      |
| 16                | 2.0               | 7.19     |             |                 | 20.9  | 7.37          |          |                | 22.7       | 2.97         |                         |       |      |         |      |
| 17                | 1.7               | 7.02     | 226.0       | 86.7            | 20.0  | 7.43          | 47.2     | 56.0           | 22.4       | 3.09         | 235900                  |       |      |         |      |
| 18                | 2.4               | 7.49     |             |                 | 21.3  | 7.18          |          |                | 22.3       | 3.08         |                         |       |      |         |      |
| 19                | 2.2               | 7.12     |             |                 | 19.9  | 7.27          |          |                | 22.1       | 4.96         |                         |       |      |         |      |
| 20                | 2.0               | 7.22     |             |                 | 19.9  | 7.42          |          |                | 22.0       | 4.45         |                         |       |      |         |      |
| 21                | 1.9*              | 7.32     |             |                 | 20.9  | 7.51          |          |                | 22.9       | 4.12         |                         |       |      |         |      |
| 22                | 2.0               | 7.19     |             |                 | 25.5  | 7.60          |          |                | 23.6       | 3.67         |                         |       |      |         |      |
| 23                | 2.3               | 7.88     | 178.0       | 237.0           | 25.2  | 7.51          | 37.4     | 27.0           | 24.0       | 3.91         | 111900.0                |       |      |         |      |
| 24                | 1.8               | 7.01     |             |                 | 24.7  | 7.59          |          |                | 23.1       | 3.11         |                         |       |      |         |      |
| 25                | 1.7               | 7.06     |             |                 | 23.2  | 7.36          |          |                | 23.8       | 3.88         |                         |       |      |         |      |
| 26                | 1.5               | 7.74     |             |                 | 21.3  | 7.28          |          |                | 22.1       | 3.51         |                         |       |      |         |      |
| 27                | 1.0               | 7.05     |             |                 | 20.1  | 7.21          |          |                | 22.5       | 3.55         |                         |       |      |         |      |
| 28                | 1.6               | 7.08     |             |                 | 21.6  | 7.44          |          |                | 22.5       | 2.73         |                         |       |      |         |      |
| 29                | 1.5               | 7.28     |             |                 | 23.0  | 7.40          |          |                | 24.0       | 2.92         |                         |       |      |         |      |
| 30                | 1.0               | 7.32     |             |                 | 23.4  | 7.34          |          |                | 23.8       | 3.21         |                         |       |      |         |      |
| 31                |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| No. of Samp.      |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |
| Tot of Samp.      | 66.3              | 214.1    | 638.4       | 450.0           | 633.4 | 219.3         | 130.2    | 114.0          |            | 112.8        |                         |       |      |         |      |
| Monthly Avg.      | #DIV/0!           |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                         |       |      |         |      |
| Daily Max.        | 5.1               | 7.9      | 226.0       | 237.0           | 25.5  | 7.6           | 47.2     | 56.0           | 24.0       | 5.0          | 235900.0                |       |      |         |      |
| Daily Min.        | 1.0               | 6.7      |             |                 | 17.5  | 7.0           |          |                | 18.2       | 2.2          | 19863.0                 |       |      |         |      |
| Max 7/Avg.        |                   |          |             |                 |       |               |          |                |            |              |                         |       |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60196583

| <b>Sample: SHOAL EFFLUENT</b>                                              |               | <b>Lab ID: 60196583001</b> |              | Collected: 06/17/15 08:10 |    | Received: 06/17/15 14:50 |                | Matrix: Water |      |
|----------------------------------------------------------------------------|---------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                                                                 | Results       | Units                      | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| Analytical Method: SM 9223B Colilert Preparation Method: SM 9223B Colilert |               |                            |              |                           |    |                          |                |               |      |
| <b>MBIO 9223B E.Coli</b>                                                   | <b>235900</b> | MPN/100 mL                 | 1.0          | 1.0                       | 1  | 06/17/15 14:54           | 06/18/15 15:00 |               |      |
| Escherichia coli (E.coli)                                                  |               |                            |              |                           |    |                          |                |               |      |

| <b>Sample: SHOAL INFLUENT (A1)</b>                       |             | <b>Lab ID: 60196583002</b> |              | Collected: 06/17/15 08:00 |    | Received: 06/17/15 19:20 |                | Matrix: Water |      |
|----------------------------------------------------------|-------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                                               | Results     | Units                      | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| Analytical Method: SM 2540D                              |             |                            |              |                           |    |                          |                |               |      |
| <b>2540D Total Suspended Solids</b>                      | <b>86.7</b> | mg/L                       | 5.0          | 5.0                       | 1  |                          | 06/19/15 09:03 |               |      |
| Total Suspended Solids                                   |             |                            |              |                           |    |                          |                |               |      |
| Analytical Method: SM 5210B Preparation Method: SM 5210B |             |                            |              |                           |    |                          |                |               |      |
| <b>5210B BOD, 5 day</b>                                  | <b>226</b>  | mg/L                       | 2.0          | 2.0                       | 1  | 06/18/15 12:16           | 06/23/15 12:31 |               | 1e   |
| BOD, 5 day                                               |             |                            |              |                           |    |                          |                |               |      |

| <b>Sample: SHOAL EFFLUENT (C2)</b>                       |             | <b>Lab ID: 60196583003</b> |              | Collected: 06/17/15 08:00 |    | Received: 06/17/15 19:20 |                | Matrix: Water |      |
|----------------------------------------------------------|-------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                                               | Results     | Units                      | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| Analytical Method: SM 2540D                              |             |                            |              |                           |    |                          |                |               |      |
| <b>2540D Total Suspended Solids</b>                      | <b>56.0</b> | mg/L                       | 5.0          | 5.0                       | 1  |                          | 06/19/15 09:03 |               |      |
| Total Suspended Solids                                   |             |                            |              |                           |    |                          |                |               |      |
| Analytical Method: SM 5210B Preparation Method: SM 5210B |             |                            |              |                           |    |                          |                |               |      |
| <b>5210B BOD, 5 day</b>                                  | <b>47.2</b> | mg/L                       | 2.0          | 2.0                       | 1  | 06/18/15 12:22           | 06/23/15 12:35 |               |      |
| BOD, 5 day                                               |             |                            |              |                           |    |                          |                |               |      |
| Analytical Method: EPA 350.1                             |             |                            |              |                           |    |                          |                |               |      |
| <b>350.1 Ammonia</b>                                     | <b>18.2</b> | mg/L                       | 0.50         | 0.14                      | 5  |                          | 06/24/15 08:33 | 7664-41-7     |      |
| Nitrogen, Ammonia                                        |             |                            |              |                           |    |                          |                |               |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60200938

| Sample: SHOAL INFLUENT A1           |         | Lab ID: 60200938001                                      |              | Collected: 08/19/15 07:30 |    | Received: 08/19/15 18:25 |                | Matrix: Water |      |
|-------------------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                          | Results | Units                                                    | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |              |                           |    |                          |                |               |      |
| Total Suspended Solids              | 120     | mg/L                                                     | 5.0          | 5.0                       | 1  |                          | 08/24/15 12:01 |               |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |              |                           |    |                          |                |               |      |
| BOD, 5 day                          | 28.9    | mg/L                                                     | 2.0          | 2.0                       | 1  | 08/20/15 11:42           | 08/25/15 11:12 |               | 1e   |

| Sample: SHOAL EFFLUENT C2           |         | Lab ID: 60200938002                                      |              | Collected: 08/19/15 08:00 |    | Received: 08/19/15 18:25 |                | Matrix: Water |      |
|-------------------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                          | Results | Units                                                    | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |              |                           |    |                          |                |               |      |
| Total Suspended Solids              | 128     | mg/L                                                     | 5.0          | 5.0                       | 1  |                          | 08/24/15 12:01 |               |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |              |                           |    |                          |                |               |      |
| BOD, 5 day                          | 53.1    | mg/L                                                     | 2.0          | 2.0                       | 1  | 08/20/15 11:45           | 08/25/15 11:16 |               |      |
| <b>350.1 Ammonia</b>                |         | Analytical Method: EPA 350.1                             |              |                           |    |                          |                |               |      |
| Nitrogen, Ammonia                   | 3.1     | mg/L                                                     | 0.20         | 0.093                     | 2  |                          | 08/25/15 10:16 | 7664-41-7     |      |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|              |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |
|--------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------|-------------------------|------|---------|------|
| OF FACILITY  |                   |          |             |                 |       | CITY          |          |                |            |              |                   | COUNTY/REGION           |      |         |      |
| l Creek WWTP |                   |          |             |                 |       | NEOSHO        |          |                |            |              |                   | SPRINGFIELD             |      |         |      |
| HE MONTH OF  |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              |                   | TYPE TREATMENT FACILITY |      |         |      |
| ist-08 015   |                   |          |             |                 |       | MO# 0104906   |          |                |            |              |                   | OXI-DATION DITCH        |      |         |      |
| ENT          |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                   |                         |      |         |      |
|              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100 | OTHER                   | RAIN | WEATHER | TIME |
| 1            | 1.6               | 7.38     |             |                 | 22.5  | 7.60          |          |                | 24.5       | 3.44         | in/Lab            |                         | 0.00 |         |      |
| 2            | 1.0               | 7.79     |             |                 | 23.4  | 7.59          |          |                | 25.0       | 3.60         | in                |                         | 0.00 |         |      |
| 3            | 1.2               | 7.94     |             |                 | 24.2  | 7.60          |          |                | 24.5       | 3.42         | house             |                         | 0.00 |         |      |
| 4            | 1.7               | 7.79     |             |                 | 24.4  | 7.58          |          |                | 24.7       | 3.56         |                   |                         | 0.00 |         |      |
| 5            | 3.1               | 7.28     | 260.0       | 104.0           | 22.5  | 7.60          | 2.7      | 5.0            | 24.3       | 3.27         | 25.0              |                         | 0.43 |         |      |
| 6            | 1.9               | 7.79     |             |                 | 22.4  | 7.34          |          |                | 24.3       | 4.58         |                   |                         | 0.26 |         |      |
| 7            | 1.0               | 7.39     |             |                 | 23.3  | 7.29          |          |                | 23.2       | 3.92         |                   |                         | 0.00 |         |      |
| 8            | 1.3               | 8.17     |             |                 | 23.4  | 7.75          |          |                | 25.3       | 4.77         |                   |                         | 0.00 |         |      |
| 9            | 1.1               | 7.43     |             |                 | 23.1  | 7.65          |          |                | 25.2       | 4.49         |                   |                         | 0.00 |         |      |
| 10           | 1.6               | 7.34     |             |                 | 27.0  | 7.48          |          |                | 26.6       | 4.28         |                   |                         | 0.16 |         |      |
| 11           | 1.4               | 7.51     |             |                 | 26.1  | 7.67          |          |                | 26.7       | 3.90         |                   |                         | 0.10 |         |      |
| 12           | 2.6               | 7.41     | 520.0       | 294.0           | 26.5  | 7.63          | 4.2      | 9.0            | 26.0       | 4.75         | 80.0              |                         | 0.00 |         |      |
| 13           | 1.6               | 7.58     |             |                 | 27.2  | 7.52          |          |                | 26.8       | 3.84         |                   |                         | 0.00 |         |      |
| 14           | 1.5               | 7.16     |             |                 | 26.6  | 7.61          |          |                | 26.7       | 6.50         |                   |                         | 0.00 |         |      |
| 15           | 1.3               | 7.43     |             |                 | 23.2  | 7.58          |          |                | 23.7       | 5.48         |                   |                         | 0.00 |         |      |
| 16           | 1.2               | 7.23     |             |                 | 23.5  | 7.66          |          |                | 23.7       | 3.72         |                   |                         | 0.00 |         |      |
| 17           | 1.5               | 7.60     |             |                 | 23.2  | 7.51          |          |                | 24.5       | 3.05         |                   |                         | 0.00 |         |      |
| 18           | 1.6               | 7.61     |             |                 | 23.5  | 7.58          |          |                | 24.6       | 4.82         |                   |                         | 0.55 |         |      |
| 19           | 3.1               | 7.01     | 28.9        | 120.0           | 22.1  | 7.40          | 53.1     | 128.0          | 23.2       | 3.61         | 68.0              |                         | 3.70 |         |      |
| 20           | 2.9               | 7.20     |             |                 | 21.5  | 7.11          |          |                | 22.6       | 5.06         |                   |                         | 0.10 |         |      |
| 21           | 2.7               | 7.39     |             |                 | 21.6  | 7.56          |          |                | 22.4       | 3.86         |                   |                         | 0.00 |         |      |
| 22           | 2.4               | 7.68     |             |                 | 21.8  | 7.59          |          |                | 22.5       | 4.72         |                   |                         | 0.18 |         |      |
| 23           | 4.3               | 7.19     |             |                 | 21.8  | 7.47          |          |                | 22.6       | 2.60         |                   |                         | 1.18 |         |      |
| 24           | 3.4               | 7.28     |             |                 | 23.3  | 7.47          |          |                | 23.3       | 3.36         |                   |                         | 0.00 |         |      |
| 25           | 2.2               | 7.34     | 307.0       | 365.0           | 22.3  | 7.44          | 2.0      | 5.0            | 23.0       | 2.53         | 10.0              |                         | 0.00 |         |      |
| 26           | 1.5               | 7.19     |             |                 | 20.1  | 7.55          |          |                | 21.3       | 3.55         |                   |                         | 0.00 |         |      |
| 27           | 1.4               | 7.24     |             |                 | 21.1  | 7.51          |          |                | 22.3       | 5.44         |                   |                         | 0.00 |         |      |
| 28           | 1.3               | 7.31     |             |                 | 21.1  | 7.53          |          |                | 22.2       | 6.45         |                   |                         | 0.00 |         |      |
| 29           | 1.7               | 7.25     |             |                 | 21.2  | 7.55          |          |                | 22.4       | 6.50         |                   |                         | 0.00 |         |      |
| 30           | 1.8               | 7.30     |             |                 | 21.1  | 7.55          |          |                | 22.3       | 6.20         |                   |                         | 0.00 |         |      |
| 31           | 1.7               | 7.44     |             |                 | 22.3  | 7.56          |          |                | 22.7       | 5.68         |                   |                         | 0.00 |         |      |
| Samp.        |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |
| Samp.        | 58.6              | 230.7    | 1115.9      | 883.0           | 717.3 | 233.5         | 62.0     | 147.0          |            | 135.0        |                   |                         |      |         |      |
| y Avg.       | 3.3               |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                   |                         |      |         |      |
| Max.         | 4.3               | 8.2      | 520.0       | 365.0           | 27.2  | 7.8           | 53.1     | 128.0          | 26.8       | 6.5          | 80.0              |                         |      |         |      |
| Min.         | 1.0               | 7.0      |             |                 | 20.1  | 7.1           |          |                | 21.3       | 2.5          | 10.0              |                         |      |         |      |
| Avg.         |                   |          |             |                 |       |               |          |                |            |              |                   |                         |      |         |      |

SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: SHOAL 2/14/13  
Pace Project No.: 60138809

| Sample: SHOAL INF-(A1)       |                                                          | Lab ID: 60138809001 | Collected: 02/14/13 07:10 | Received: 02/14/13 18:24 | Matrix: Water |                |                |         |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|---------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |               |                |                |         |      |
| Total Suspended Solids       | 168                                                      | mg/L                | 5.0                       | 5.0                      | 1             |                | 02/19/13 09:17 |         |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |               |                |                |         |      |
| BOD, 5 day                   | 157                                                      | mg/L                | 2.0                       | 2.0                      | 1             | 02/15/13 15:38 | 02/20/13 14:10 |         |      |

| Sample: SHOAL EFFLUENT (C2)  |                                                          | Lab ID: 60138809002 | Collected: 02/14/13 07:30 | Received: 02/14/13 18:24 | Matrix: Water |                |                |           |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |               |                |                |           |      |
| Total Suspended Solids       | 9.0                                                      | mg/L                | 5.0                       | 5.0                      | 1             |                | 02/19/13 09:17 |           |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |               |                |                |           |      |
| BOD, 5 day                   | 12.5                                                     | mg/L                | 2.0                       | 2.0                      | 1             | 02/15/13 15:56 | 02/20/13 14:20 |           |      |
| 350.1 Ammonia                | Analytical Method: EPA 350.1                             |                     |                           |                          |               |                |                |           |      |
| Nitrogen, Ammonia            | ND                                                       | mg/L                | 0.10                      | 0.034                    | 1             |                | 02/19/13 14:09 | 7664-41-7 |      |

Date: 02/27/2013 10:54 AM

## REPORT OF LABORATORY ANALYSIS

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>SHOAL CREEK WWTP |                   |                        |             |                              |            | CITY<br>NEOSHO |          |                |            |                                             |                  | COUNTY/REGION<br>SPRINGFIELD |         |      |  |
|--------------------------------------|-------------------|------------------------|-------------|------------------------------|------------|----------------|----------|----------------|------------|---------------------------------------------|------------------|------------------------------|---------|------|--|
| FOR THE MONTH OF<br>February-13      |                   | OUTFALL NUMBER<br>#001 |             | PERMIT NUMBER<br>MO# 0104906 |            |                |          |                |            | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |                  |                              |         |      |  |
| INFLUENT                             |                   |                        |             |                              |            | EFFLUENT       |          |                |            |                                             |                  |                              |         |      |  |
| DAY                                  | FLOW:<br>MGD EFF. | PH UNITS               | BOD<br>mg/L | SUSP.<br>SOLIDS              | TEMP<br>°C | PH UNITS       | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l                                | Fecal<br>Col/100 | RAIN                         | WEATHER | TIME |  |
| 1                                    | 2.6               | 7.67                   |             |                              | 11.4       | 7.34           |          |                | 11.6       | 3.20                                        |                  | 5.3                          | .03     |      |  |
| 2                                    | 1.4               | 7.57                   |             |                              | 11.3       | 7.38           |          |                | 11.5       | 5.70                                        |                  |                              |         |      |  |
| 3                                    | 1.6               | 7.66                   |             |                              | 10.5       | 7.60           |          |                | 11.4       | 4.17                                        |                  |                              |         |      |  |
| 4                                    | 1.8               | 7.56                   |             |                              | 16.0       | 7.39           |          |                | 13.0       | 2.75                                        |                  |                              | .06     |      |  |
| 5                                    | 1.7               | 7.90                   |             |                              | 15.5       | 7.40           |          |                | 13.3       | 5.33                                        |                  |                              |         |      |  |
| 6                                    | 1.8               | 7.1                    | 266.0       | 174.0                        | 15.0       | 7.47           | 4.0      | 5.0            | 15.0       | 2.60                                        |                  |                              |         |      |  |
| 7                                    | 1.8               | 7.69                   |             |                              | 14.6       | 7.10           |          |                | 14.0       | 2.80                                        |                  |                              |         |      |  |
| 8                                    | 1.8               | 7.68                   |             |                              | 15.7       | 6.98           |          |                | 13.3       | 2.55                                        |                  |                              | .32     |      |  |
| 9                                    | 1.0               | 7.21                   |             |                              | 12.2       | 7.44           |          |                | 14.1       | 5.53                                        |                  |                              |         |      |  |
| 10                                   | 1.4               | 7.45                   |             |                              | 15.3       | 7.11           |          |                | 14.5       | 3.63                                        |                  |                              | .40     |      |  |
| 11                                   | 2.1               | 7.37                   |             |                              | 14.6       | 7.14           |          |                | 13.0       | 2.85                                        |                  |                              |         |      |  |
| 12                                   | 1.7               | 7.76                   |             |                              | 13.0       | 7.22           |          |                | 11.5       | 4.33                                        |                  |                              |         |      |  |
| 13                                   | 1.2               | 7.50                   |             |                              | 14.2       | 7.00           |          |                | 11.8       | 3.38                                        |                  | 1.0                          | .31     |      |  |
| 14                                   | 1.9               | 8.55                   | 157.0       | 168.0                        | 15.4       | 7.16           | 12.5     | 9.0            | 12.7       | 4.08                                        |                  |                              |         |      |  |
| 15                                   | 1.9               | 7.63                   |             |                              | 12.7       | 7.27           |          |                | 11.0       | 3.30                                        |                  |                              |         |      |  |
| 16                                   | 1.0               | 7.58                   |             |                              | 11.5       | 7.21           |          |                | 13.0       | 3.56                                        |                  |                              | .02     |      |  |
| 17                                   | 1.4               | 7.53                   |             |                              | 11.8       | 7.17           |          |                | 11.0       | 4.17                                        |                  |                              |         |      |  |
| 18                                   | 1.7               | 8.20                   |             |                              | 13.3       | 7.30           |          |                | 13.0       | 3.52                                        |                  |                              |         |      |  |
| 19                                   | 1.3               | 7.91                   |             |                              | 12.2       | 7.67           |          |                | 13.6       | 3.43                                        |                  |                              | .01     |      |  |
| 20                                   | 1.4               | 7.94                   | 348.0       | 160.0                        | 7.0        | 7.69           | 4.4      | 5.0            | 9.9        | 2.50                                        |                  |                              |         |      |  |
| 21                                   | 2.0               | 7.88                   |             |                              | 11.3       | 7.60           |          |                | 10.0       | 2.38                                        |                  |                              | .30     |      |  |
| 22                                   | 1.9               | 7.95                   |             |                              | 11.4       | 7.65           |          |                | 11.0       | 2.78                                        |                  |                              | .63     |      |  |
| 23                                   | 1.8               | 7.88                   |             |                              | 10.2       | 7.75           |          |                | 10.5       | 3.72                                        |                  |                              |         |      |  |
| 24                                   | 1.8               | 7.92                   |             |                              | 10.0       | 7.59           |          |                | 9.7        | 7.96                                        |                  |                              |         |      |  |
| 25                                   | 2.2               | 8.47                   |             |                              | 10.0       | 7.66           |          |                | 10.0       | 5.25                                        |                  |                              |         |      |  |
| 26                                   | 2.2               | 8.07                   |             |                              | 10.5       | 7.39           |          |                | 9.5        | 2.83                                        |                  | 4.0                          | .81     |      |  |
| 27                                   | 3.0               | 7.88                   |             |                              | 10.1       | 7.46           |          |                | 9.3        | 2.35                                        |                  |                              | .01     |      |  |
| 28                                   | 2.5               | 8.11                   | 181.0       | 124.0                        | 10.8       | 7.48           | 8.6      | 5.0            | 10.2       | 4.07                                        |                  |                              |         |      |  |
| 29                                   |                   |                        |             |                              |            |                |          |                |            |                                             |                  |                              |         |      |  |
| 30                                   |                   |                        |             |                              |            |                |          |                |            |                                             |                  |                              |         |      |  |
| 31                                   |                   |                        |             |                              |            |                |          |                |            |                                             |                  |                              |         |      |  |
| No. of Samp.                         | 28.0              | 28.0                   | 4.0         | 4.0                          | 28.0       | 28.0           | 4.0      | 4.0            | 28.0       | 28.0                                        | 0.0              |                              |         |      |  |
| Tot of Samp.                         | 49.9              |                        | 952.0       | 626.0                        | 347.5      | 206.6          | 29.5     | 24.0           | 332.4      | 104.7                                       | 0.0              |                              |         |      |  |
| Monthly Avg.                         | 1.8               |                        | 238.0       | 156.5                        |            |                | 7.4      | 6.0            |            |                                             | #DIV/0!          |                              |         |      |  |
| Daily Max.                           | 3.0               | 8.6                    | 348.0       | 174.0                        | 16.0       | 7.8            | 12.5     | 9.0            | 15.0       | 8.0                                         | 0.0              |                              |         |      |  |
| Daily Min.                           |                   | 7.1                    |             |                              | 7.0        | 7.0            |          |                | 9.3        | 2.4                                         | 0.0              |                              |         |      |  |
| Max 7/Avg.                           |                   |                        |             |                              |            |                |          |                |            |                                             |                  |                              |         |      |  |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

MO 780-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                                                           |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |      |         |      |
|---------------------------------------------------------------------------|-------------------|----------|-------------|-----------------|------------|------------------------------------------------|----------|----------------|------------|--------------|------------------|-----------------------------------------------------------------------------|------|---------|------|
| NAME OF FACILITY<br>SHOAL CREEK WWTP<br>FOR THE MONTH OF<br>FEBRUARY-2014 |                   |          |             |                 |            | CITY<br>NEOSHO<br>PERMIT NUMBER<br>MO# 0104908 |          |                |            |              |                  | COUNTY/REGION<br>SPRINGFIELD<br>TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |      |         |      |
| INFLUENT                                                                  |                   |          |             |                 |            | EFFLUENT                                       |          |                |            |              |                  |                                                                             |      |         |      |
| DAY                                                                       | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                                       | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | SNOW                                                                        | RAIN | WEATHER | TIME |
| 1                                                                         | 1.30              | 7.35     |             |                 | 11.4       | 7.28                                           |          |                | 11.0       | 7.78         |                  |                                                                             | 0.11 |         |      |
| 2                                                                         | 1.36              | 7.35     |             |                 | 11.4       | 7.20                                           |          |                | 10.7       | 4.44         |                  |                                                                             |      |         |      |
| 3                                                                         | 1.52              | 7.38     |             |                 | 11.5       | 7.06                                           |          |                | 10.6       | 5.79         |                  |                                                                             |      |         |      |
| 4                                                                         | 1.20              | 7.66     |             |                 | 9.7        | 7.29                                           |          |                | 9.5        | 6.60         |                  |                                                                             | 0.01 |         |      |
| 5                                                                         | 1.0               | 7.70     |             |                 | 7.3        | 7.42                                           |          |                | 10.6       | 8.52         |                  | 2.0                                                                         | 0.2  |         |      |
| 6                                                                         | 1.0               | 7.71     |             |                 | 8.3        | 7.40                                           |          |                | 7.9        | 8.81         |                  |                                                                             |      |         |      |
| 7                                                                         | 1.40              | 8.21     | 196.0       | 410.0           | 9.0        | 7.46                                           | 13.4     | 13.0           | 7.6        | 8.74         |                  |                                                                             |      |         |      |
| 8                                                                         | 1.50              | 7.64     |             |                 | 10.4       | 7.23                                           |          |                | 9.2        | 7.14         |                  |                                                                             |      |         |      |
| 9                                                                         | 1.40              | 7.58     |             |                 | 9.6        | 7.39                                           |          |                | 9.0        | 6.47         |                  |                                                                             |      |         |      |
| 10                                                                        | 1.40              | 7.70     |             |                 | 9.8        | 7.07                                           |          |                | 8.6        | 6.87         |                  |                                                                             | 0.01 |         |      |
| 11                                                                        | 2.20              | 7.77     |             |                 | 10.2       | 7.21                                           |          |                | 8.9        | 5.03         |                  |                                                                             |      |         |      |
| 12                                                                        | 1.0               | 8.93     |             |                 | 11.0       | 7.15                                           |          |                | 9.0        | 5.82         |                  |                                                                             |      |         |      |
| 13                                                                        | 1.40              | 7.04     | 212         | 360             | 14.2       | 7.26                                           | 63.6     | 21.0           | 11.2       | 4.92         |                  |                                                                             |      |         |      |
| 14                                                                        | 1.90              | 7.62     |             |                 | 10.0       | 7.22                                           |          |                | 10.9       | 5.26         |                  |                                                                             |      |         |      |
| 15                                                                        | 1.20              | 7.12     |             |                 | 9.1        | 7.27                                           |          |                | 8.9        | 4.95         |                  |                                                                             |      |         |      |
| 16                                                                        | 1.20              | 7.33     |             |                 | 10.8       | 7.28                                           |          |                | 9.5        | 3.59         |                  |                                                                             |      |         |      |
| 17                                                                        | 1.30              | 7.41     |             |                 | 13.1       | 7.30                                           |          |                | 12.1       | 3.79         |                  |                                                                             |      |         |      |
| 18                                                                        | 1.00              | 7.54     |             |                 | 18.8       | 7.40                                           |          |                | 14.0       | 4.05         |                  |                                                                             |      |         |      |
| 19                                                                        | 1.40              | 9.21     | 39.2        | 594.0           | 14.7       | 7.33                                           | 2.0      | 16.0           | 14.0       | 5.75         |                  |                                                                             |      |         |      |
| 20                                                                        | 1.50              | 8.34     |             |                 | 14.1       | 7.40                                           |          |                | 12.0       | 6.94         |                  |                                                                             | 0.09 |         |      |
| 21                                                                        | 1.10              | 7.76     |             |                 | 13.3       | 7.32                                           |          |                | 11.0       | 3.07         |                  |                                                                             |      |         |      |
| 22                                                                        | 1.10              | 7.71     |             |                 | 11.7       | 7.02                                           |          |                | 11.7       | 5.38         |                  |                                                                             |      |         |      |
| 23                                                                        | 1.20              | 7.95     |             |                 | 11.1       | 7.18                                           |          |                | 11.3       | 5.06         |                  |                                                                             |      |         |      |
| 24                                                                        | 1.80              | 7.67     |             |                 | 13.1       | 7.35                                           |          |                | 12.7       | 4.00         |                  |                                                                             |      |         |      |
| 25                                                                        | 1.90              | 8.04     |             |                 | 12.6       | 7.52                                           |          |                | 10.8       | 6.09         |                  |                                                                             |      |         |      |
| 26                                                                        | 1.00              | 8.21     | 137.0       | 396.0           | 10.2       | 7.50                                           | 12.3     | 20.0           | 9.7        | 7.37         |                  |                                                                             |      |         |      |
| 27                                                                        | 2.00              | 7.67     |             |                 | 14.0       | 7.46                                           |          |                | 11.0       | 5.25         |                  |                                                                             |      |         |      |
| 28                                                                        | 2.70              | 7.95     |             |                 | 10.6       | 7.37                                           |          |                | 11.3       | 7.20         |                  |                                                                             |      |         |      |
| 29                                                                        |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |      |         |      |
| 30                                                                        |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |      |         |      |
| 31                                                                        |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |      |         |      |
| to. of Samp.                                                              | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0                                           | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                                                                             |      |         |      |
| ot of Samp.                                                               | 40.0              |          | 584.2       | 1760.0          | 321.0      | 204.3                                          | 91.3     | 70.0           | 294.7      | 164.7        | 0.0              |                                                                             |      |         |      |
| onthly Avg.                                                               | 1.4               |          | 146.1       | 440.0           |            |                                                | 22.8     | 17.5           |            |              | #DIV/0!          |                                                                             |      |         |      |
| aily Max.                                                                 | 2.7               | 9.2      | 212.0       | 594.0           | 18.8       | 7.5                                            | 63.6     | 21.0           | 14.0       | 8.8          | 0.0              |                                                                             |      |         |      |
| aily Min.                                                                 |                   | 7.0      |             |                 | 7.3        | 7.0                                            |          |                | 7.6        | 3.1          | 0.0              |                                                                             |      |         |      |
| ax 7/Avg.                                                                 |                   |          |             |                 |            |                                                |          |                |            |              |                  |                                                                             |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

0 780-1306 (6-03)



## ANALYTICAL RESULTS

Project: SHOAL 2/13/14  
Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]  |                                                          | Lab ID: 60162938001 | Collected: 02/13/14 07:15 | Received: 02/13/14 18:40 | Matrix: Water  |                |         |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |         |      |
| Total Suspended Solids       | 360                                                      | mg/L                | 5.0                       | 1                        |                | 02/19/14 11:08 |         |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |         |      |
| BOD, 5 day                   | 212                                                      | mg/L                | 2.0                       | 1                        | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]  |                                                          | Lab ID: 60162938002 | Collected: 02/13/14 07:30 | Received: 02/13/14 18:40 | Matrix: Water  |                |           |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |           |      |
| Total Suspended Solids       | 21.0                                                     | mg/L                | 5.0                       | 1                        |                | 02/19/14 11:09 |           |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |           |      |
| BOD, 5 day                   | 63.6                                                     | mg/L                | 2.0                       | 1                        | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| 350.1 Ammonia                | Analytical Method: EPA 350.1                             |                     |                           |                          |                |                |           |      |
| Nitrogen, Ammonia            | 0.12                                                     | mg/L                | 0.10                      | 1                        |                | 02/18/14 13:20 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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Date: 02/24/2014 10:07 AM

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## ANALYTICAL RESULTS

Project: SHOAL  
Pace Project No.: 60200938

| Sample: SHOAL INFLUENT A1      Lab ID: 60200938001      Collected: 08/19/15 07:30      Received: 08/19/15 18:25      Matrix: Water |         |       |              |     |    |                |                |         |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-----|----|----------------|----------------|---------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL | DF | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |     |    |                |                |         |      |
| Total Suspended Solids                                                                                                             | 120     | mg/L  | 5.0          | 5.0 | 1  |                | 08/24/15 12:01 |         |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |     |    |                |                |         |      |
| BOD, 5 day                                                                                                                         | 28.9    | mg/L  | 2.0          | 2.0 | 1  | 08/20/15 11:42 | 08/25/15 11:12 |         | 1e   |

| Sample: SHOAL EFFLUENT C2      Lab ID: 60200938002      Collected: 08/19/15 08:00      Received: 08/19/15 18:25      Matrix: Water |         |       |              |       |    |                |                |           |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|-------|----|----------------|----------------|-----------|------|
| Parameters                                                                                                                         | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids      Analytical Method: SM 2540D                                                                      |         |       |              |       |    |                |                |           |      |
| Total Suspended Solids                                                                                                             | 128     | mg/L  | 5.0          | 5.0   | 1  |                | 08/24/15 12:01 |           |      |
| 5210B BOD, 5 day      Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |         |       |              |       |    |                |                |           |      |
| BOD, 5 day                                                                                                                         | 53.1    | mg/L  | 2.0          | 2.0   | 1  | 08/20/15 11:45 | 08/25/15 11:16 |           |      |
| 350.1 Ammonia      Analytical Method: EPA 350.1                                                                                    |         |       |              |       |    |                |                |           |      |
| Nitrogen, Ammonia                                                                                                                  | 3.1     | mg/L  | 0.20         | 0.093 | 2  |                | 08/25/15 10:16 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                     |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
|-------------------------------------|-------------------|----------|-------------|-----------------|-------|------------------------------|----------|----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| NAME OF FACILITY<br>Hick Creek WWTP |                   |          |             |                 |       | CITY<br>NEOSHO               |          |                |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
| THE MONTH OF<br>1st-08 015          |                   |          |             |                 |       | PERMIT NUMBER<br>MO# 0104908 |          |                |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| OUTFALL NUMBER<br>#001              |                   |          |             |                 |       | EFFLUENT                     |          |                |            |              |                                             |       |      |         |      |
|                                     | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS                     | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                   | 1.6               | 7.38     |             |                 | 22.5  | 7.60                         |          |                | 24.5       | 3.44         | In/Lab                                      |       | 0.00 |         |      |
| 2                                   | 1.0               | 7.79     |             |                 | 23.4  | 7.59                         |          |                | 25.0       | 3.60         | in                                          |       | 0.00 |         |      |
| 3                                   | 1.2               | 7.94     |             |                 | 24.2  | 7.60                         |          |                | 24.5       | 3.42         | house                                       |       | 0.00 |         |      |
| 4                                   | 1.7               | 7.79     |             |                 | 24.4  | 7.58                         |          |                | 24.7       | 3.56         |                                             |       | 0.00 |         |      |
| 5                                   | 3.1               | 7.28     | 260.0       | 104.0           | 22.5  | 7.60                         | 2.7      | 5.0            | 24.3       | 3.27         | 25.0                                        |       | 0.43 |         |      |
| 6                                   | 1.9               | 7.79     |             |                 | 22.4  | 7.34                         |          |                | 24.3       | 4.58         |                                             |       | 0.26 |         |      |
| 7                                   | 1.0               | 7.39     |             |                 | 23.3  | 7.29                         |          |                | 23.2       | 3.92         |                                             |       | 0.00 |         |      |
| 8                                   | 1.3               | 8.17     |             |                 | 23.4  | 7.75                         |          |                | 25.3       | 4.77         |                                             |       | 0.00 |         |      |
| 9                                   | 1.1               | 7.43     |             |                 | 23.1  | 7.65                         |          |                | 25.2       | 4.49         |                                             |       | 0.00 |         |      |
| 10                                  | 1.6               | 7.34     |             |                 | 27.0  | 7.48                         |          |                | 26.6       | 4.28         |                                             |       | 0.16 |         |      |
| 11                                  | 1.4               | 7.51     |             |                 | 26.1  | 7.67                         |          |                | 26.7       | 3.90         |                                             |       | 0.10 |         |      |
| 12                                  | 2.6               | 7.41     | 520.0       | 294.0           | 26.5  | 7.63                         | 4.2      | 9.0            | 26.0       | 4.75         | 80.0                                        |       | 0.00 |         |      |
| 13                                  | 1.6               | 7.58     |             |                 | 27.2  | 7.52                         |          |                | 26.8       | 3.84         |                                             |       | 0.00 |         |      |
| 14                                  | 1.5               | 7.16     |             |                 | 26.6  | 7.61                         |          |                | 26.7       | 6.50         |                                             |       | 0.00 |         |      |
| 15                                  | 1.3               | 7.43     |             |                 | 23.2  | 7.58                         |          |                | 23.7       | 5.48         |                                             |       | 0.00 |         |      |
| 16                                  | 1.2               | 7.23     |             |                 | 23.5  | 7.66                         |          |                | 23.7       | 3.72         |                                             |       | 0.00 |         |      |
| 17                                  | 1.5               | 7.60     |             |                 | 23.2  | 7.51                         |          |                | 24.5       | 3.05         |                                             |       | 0.00 |         |      |
| 18                                  | 1.6               | 7.61     |             |                 | 23.5  | 7.58                         |          |                | 24.6       | 4.82         |                                             |       | 0.55 |         |      |
| 19                                  | 3.1               | 7.01     | 28.9        | 120.0           | 22.1  | 7.40                         | 53.1     | 128.0          | 23.2       | 3.61         | 68.0                                        |       | 3.70 |         |      |
| 20                                  | 2.9               | 7.20     |             |                 | 21.5  | 7.11                         |          |                | 22.6       | 5.06         |                                             |       | 0.10 |         |      |
| 21                                  | 2.7               | 7.39     |             |                 | 21.6  | 7.56                         |          |                | 22.4       | 3.86         |                                             |       | 0.00 |         |      |
| 22                                  | 2.4               | 7.68     |             |                 | 21.8  | 7.59                         |          |                | 22.5       | 4.72         |                                             |       | 0.18 |         |      |
| 23                                  | 4.3               | 7.19     |             |                 | 21.8  | 7.47                         |          |                | 22.6       | 2.60         |                                             |       | 1.18 |         |      |
| 24                                  | 3.4               | 7.28     |             |                 | 23.3  | 7.47                         |          |                | 23.3       | 3.36         |                                             |       | 0.00 |         |      |
| 25                                  | 2.2               | 7.34     | 307.0       | 365.0           | 22.3  | 7.44                         | 2.0      | 5.0            | 23.0       | 2.53         | 10.0                                        |       | 0.00 |         |      |
| 26                                  | 1.5               | 7.19     |             |                 | 20.1  | 7.55                         |          |                | 21.3       | 3.55         |                                             |       | 0.00 |         |      |
| 27                                  | 1.4               | 7.24     |             |                 | 21.1  | 7.51                         |          |                | 22.3       | 5.44         |                                             |       | 0.00 |         |      |
| 28                                  | 1.3               | 7.31     |             |                 | 21.1  | 7.53                         |          |                | 22.2       | 6.45         |                                             |       | 0.00 |         |      |
| 29                                  | 1.7               | 7.25     |             |                 | 21.2  | 7.55                         |          |                | 22.4       | 6.50         |                                             |       | 0.00 |         |      |
| 30                                  | 1.8               | 7.30     |             |                 | 21.1  | 7.55                         |          |                | 22.3       | 6.20         |                                             |       | 0.00 |         |      |
| 31                                  | 1.7               | 7.44     |             |                 | 22.3  | 7.56                         |          |                | 22.7       | 5.68         |                                             |       | 0.00 |         |      |
| Samp.                               |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
| Samp.                               | 58.6              | 230.7    | 1115.9      | 883.0           | 717.3 | 233.5                        | 62.0     | 147.0          |            | 135.0        |                                             |       |      |         |      |
| y Avg.                              | 3.3               |          | #DIV/0!     | #DIV/0!         |       |                              | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                                             |       |      |         |      |
| Max.                                | 4.3               | 8.2      | 520.0       | 365.0           | 27.2  | 7.8                          | 53.1     | 128.0          | 26.8       | 6.5          | 80.0                                        |       |      |         |      |
| Min.                                | 1.0               | 7.0      |             |                 | 20.1  | 7.1                          |          |                | 21.3       | 2.5          | 10.0                                        |       |      |         |      |
| Avg.                                |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |

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1308 (8-03)



## ANALYTICAL RESULTS

Project: SHOAL 2/14/13  
Pace Project No.: 60138809

| Sample: SHOAL INF-(A1)              |         | Lab ID: 60138809001                                      |              | Collected: 02/14/13 07:10 |    | Received: 02/14/13 18:24 |                | Matrix: Water |      |
|-------------------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                          | Results | Units                                                    | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |              |                           |    |                          |                |               |      |
| Total Suspended Solids              | 168     | mg/L                                                     | 5.0          | 5.0                       | 1  |                          | 02/19/13 09:17 |               |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |              |                           |    |                          |                |               |      |
| BOD, 5 day                          | 157     | mg/L                                                     | 2.0          | 2.0                       | 1  | 02/15/13 15:38           | 02/20/13 14:10 |               |      |

| Sample: SHOAL EFFLUENT (C2)         |         | Lab ID: 60138809002                                      |              | Collected: 02/14/13 07:30 |    | Received: 02/14/13 18:24 |                | Matrix: Water |      |
|-------------------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                          | Results | Units                                                    | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |              |                           |    |                          |                |               |      |
| Total Suspended Solids              | 9.0     | mg/L                                                     | 5.0          | 5.0                       | 1  |                          | 02/19/13 09:17 |               |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |              |                           |    |                          |                |               |      |
| BOD, 5 day                          | 12.5    | mg/L                                                     | 2.0          | 2.0                       | 1  | 02/15/13 15:56           | 02/20/13 14:20 |               |      |
| <b>350.1 Ammonia</b>                |         | Analytical Method: EPA 350.1                             |              |                           |    |                          |                |               |      |
| Nitrogen, Ammonia                   | ND      | mg/L                                                     | 0.10         | 0.034                     | 1  |                          | 02/19/13 14:09 | 7664-41-7     |      |

Date: 02/27/2013 10:54 AM

## REPORT OF LABORATORY ANALYSIS

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>SHOAL CREEK WWTP |                   |          |             |                 |            | CITY<br>NEOSHO               |          |                |            |              |                  | COUNTY/REGION<br>SPRINGFIELD                |         |      |  |
|--------------------------------------|-------------------|----------|-------------|-----------------|------------|------------------------------|----------|----------------|------------|--------------|------------------|---------------------------------------------|---------|------|--|
| FOR THE MONTH OF<br>February-13      |                   |          |             |                 |            | PERMIT NUMBER<br>MO# 0104908 |          |                |            |              |                  | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |         |      |  |
| INFLUENT                             |                   |          |             |                 |            | EFFLUENT                     |          |                |            |              |                  |                                             |         |      |  |
| DAY                                  | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                     | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | RAIN                                        | WEATHER | TIME |  |
| 1                                    | 2.6               | 7.67     |             |                 | 11.4       | 7.34                         |          |                | 11.6       | 3.20         |                  | .3                                          | .03     |      |  |
| 2                                    | 1.4               | 7.57     |             |                 | 11.3       | 7.38                         |          |                | 11.5       | 5.70         |                  |                                             |         |      |  |
| 3                                    | 1.6               | 7.66     |             |                 | 10.5       | 7.60                         |          |                | 11.4       | 4.17         |                  |                                             |         |      |  |
| 4                                    | 1.8               | 7.56     |             |                 | 16.0       | 7.39                         |          |                | 13.0       | 2.75         |                  |                                             | .06     |      |  |
| 5                                    | 1.7               | 7.90     |             |                 | 15.5       | 7.40                         |          |                | 13.3       | 5.33         |                  |                                             |         |      |  |
| 6                                    | 1.8               | 7.1      | 266.0       | 174.0           | 15.0       | 7.47                         | 4.0      | 5.0            | 15.0       | 2.60         |                  |                                             |         |      |  |
| 7                                    | 1.8               | 7.69     |             |                 | 14.6       | 7.10                         |          |                | 14.0       | 2.80         |                  |                                             |         |      |  |
| 8                                    | 1.8               | 7.68     |             |                 | 15.7       | 6.98                         |          |                | 13.3       | 2.55         |                  |                                             | .32     |      |  |
| 9                                    | 1.0               | 7.21     |             |                 | 12.2       | 7.44                         |          |                | 14.1       | 5.53         |                  |                                             |         |      |  |
| 10                                   | 1.4               | 7.45     |             |                 | 15.3       | 7.11                         |          |                | 14.5       | 3.63         |                  |                                             | .40     |      |  |
| 11                                   | 2.1               | 7.37     |             |                 | 14.6       | 7.14                         |          |                | 13.0       | 2.85         |                  |                                             |         |      |  |
| 12                                   | 1.7               | 7.76     |             |                 | 13.0       | 7.22                         |          |                | 11.5       | 4.33         |                  |                                             |         |      |  |
| 13                                   | 1.2               | 7.50     |             |                 | 14.2       | 7.00                         |          |                | 11.8       | 3.38         |                  | 1.0                                         | .31     |      |  |
| 14                                   | 1.9               | 8.55     | 157.0       | 168.0           | 15.4       | 7.16                         | 12.5     | 9.0            | 12.7       | 4.08         |                  |                                             |         |      |  |
| 15                                   | 1.9               | 7.63     |             |                 | 12.7       | 7.27                         |          |                | 11.0       | 3.30         |                  |                                             |         |      |  |
| 16                                   | 1.0               | 7.58     |             |                 | 11.5       | 7.21                         |          |                | 13.0       | 3.58         |                  |                                             | .02     |      |  |
| 17                                   | 1.4               | 7.53     |             |                 | 11.8       | 7.17                         |          |                | 11.0       | 4.17         |                  |                                             |         |      |  |
| 18                                   | 1.7               | 8.20     |             |                 | 13.3       | 7.30                         |          |                | 13.0       | 3.52         |                  |                                             |         |      |  |
| 19                                   | 1.3               | 7.91     |             |                 | 12.2       | 7.67                         |          |                | 13.6       | 3.43         |                  |                                             | .01     |      |  |
| 20                                   | 1.4               | 7.94     | 348.0       | 160.0           | 7.0        | 7.69                         | 4.4      | 5.0            | 9.9        | 2.50         |                  |                                             |         |      |  |
| 21                                   | 2.0               | 7.88     |             |                 | 11.3       | 7.60                         |          |                | 10.0       | 2.38         |                  |                                             | .30     |      |  |
| 22                                   | 1.9               | 7.95     |             |                 | 11.4       | 7.65                         |          |                | 11.0       | 2.78         |                  |                                             | .63     |      |  |
| 23                                   | 1.8               | 7.88     |             |                 | 10.2       | 7.75                         |          |                | 10.5       | 3.72         |                  |                                             |         |      |  |
| 24                                   | 1.8               | 7.92     |             |                 | 10.0       | 7.59                         |          |                | 9.7        | 7.96         |                  |                                             |         |      |  |
| 25                                   | 2.2               | 8.47     |             |                 | 10.0       | 7.66                         |          |                | 10.0       | 5.25         |                  |                                             |         |      |  |
| 26                                   | 2.2               | 8.07     |             |                 | 10.5       | 7.39                         |          |                | 9.5        | 2.83         |                  | 4.0                                         | .81     |      |  |
| 27                                   | 3.0               | 7.88     |             |                 | 10.1       | 7.46                         |          |                | 9.3        | 2.35         |                  |                                             | .01     |      |  |
| 28                                   | 2.5               | 8.11     | 181.0       | 124.0           | 10.8       | 7.48                         | 8.6      | 5.0            | 10.2       | 4.07         |                  |                                             |         |      |  |
| 29                                   |                   |          |             |                 |            |                              |          |                |            |              |                  |                                             |         |      |  |
| 30                                   |                   |          |             |                 |            |                              |          |                |            |              |                  |                                             |         |      |  |
| 31                                   |                   |          |             |                 |            |                              |          |                |            |              |                  |                                             |         |      |  |
| No. of Samp.                         | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0                         | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                                             |         |      |  |
| Tot of Samp.                         | 49.9              |          | 952.0       | 626.0           | 347.5      | 206.6                        | 29.5     | 24.0           | 332.4      | 104.7        | 0.0              |                                             |         |      |  |
| Monthly Avg.                         | 1.8               |          | 238.0       | 156.5           |            |                              | 7.4      | 6.0            |            |              | #DIV/0!          |                                             |         |      |  |
| Daily Max.                           | 3.0               | 8.6      | 348.0       | 174.0           | 16.0       | 7.8                          | 12.5     | 9.0            | 15.0       | 8.0          | 0.0              |                                             |         |      |  |
| Daily Min.                           |                   | 7.1      |             |                 | 7.0        | 7.0                          |          |                | 9.3        | 2.4          | 0.0              |                                             |         |      |  |
| Max 7/Avg.                           |                   |          |             |                 |            |                              |          |                |            |              |                  |                                             |         |      |  |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

MO 780-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |  |  |  |                               |  |  |  |                                                    |  |  |  |
|---------------------------------------------|--|--|--|-------------------------------|--|--|--|----------------------------------------------------|--|--|--|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |  |  |  | CITY<br><b>NEOSHO</b>         |  |  |  | COUNTY/REGION<br><b>SPRINGFIELD</b>                |  |  |  |
| FOR THE MONTH OF<br><b>FEBRUARY-2014</b>    |  |  |  | OUTFALL NUMBER<br><b>#001</b> |  |  |  | PERMIT NUMBER<br><b>MO# 0104908</b>                |  |  |  |
|                                             |  |  |  |                               |  |  |  | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |  |  |  |

| DAY          | INFLUENT          |          |             |                 |            |          | EFFLUENT |                |            |              |                  |      |      |         |      |
|--------------|-------------------|----------|-------------|-----------------|------------|----------|----------|----------------|------------|--------------|------------------|------|------|---------|------|
|              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | SNOW | RAIN | WEATHER | TIME |
| 1            | 1.30              | 7.35     |             |                 | 11.4       | 7.28     |          |                | 11.0       | 7.78         |                  |      | 0.11 |         |      |
| 2            | 1.36              | 7.35     |             |                 | 11.4       | 7.20     |          |                | 10.7       | 4.44         |                  |      |      |         |      |
| 3            | 1.52              | 7.38     |             |                 | 11.5       | 7.06     |          |                | 10.6       | 5.79         |                  |      |      |         |      |
| 4            | 1.20              | 7.66     |             |                 | 9.7        | 7.29     |          |                | 9.5        | 6.60         |                  |      | 0.01 |         |      |
| 5            | 1.0               | 7.70     |             |                 | 7.3        | 7.42     |          |                | 10.6       | 8.52         |                  | 2.0  | 0.2  |         |      |
| 6            | 1.0               | 7.71     |             |                 | 8.3        | 7.40     |          |                | 7.9        | 8.81         |                  |      |      |         |      |
| 7            | 1.40              | 8.21     | 196.0       | 410.0           | 9.0        | 7.46     | 13.4     | 13.0           | 7.6        | 8.74         |                  |      |      |         |      |
| 8            | 1.50              | 7.64     |             |                 | 10.4       | 7.23     |          |                | 9.2        | 7.14         |                  |      |      |         |      |
| 9            | 1.40              | 7.58     |             |                 | 9.6        | 7.39     |          |                | 9.0        | 6.47         |                  |      |      |         |      |
| 10           | 1.40              | 7.70     |             |                 | 9.8        | 7.07     |          |                | 8.6        | 6.87         |                  |      | 0.01 |         |      |
| 11           | 2.20              | 7.77     |             |                 | 10.2       | 7.21     |          |                | 8.9        | 5.03         |                  |      |      |         |      |
| 12           | 1.0               | 8.93     |             |                 | 11.0       | 7.15     |          |                | 9.0        | 5.82         |                  |      |      |         |      |
| 13           | 1.40              | 7.04     | 212         | 360             | 14.2       | 7.26     | 63.6     | 21.0           | 11.2       | 4.92         |                  |      |      |         |      |
| 14           | 1.90              | 7.62     |             |                 | 10.0       | 7.22     |          |                | 10.9       | 5.26         |                  |      |      |         |      |
| 15           | 1.20              | 7.12     |             |                 | 9.1        | 7.27     |          |                | 8.9        | 4.95         |                  |      |      |         |      |
| 16           | 1.20              | 7.33     |             |                 | 10.8       | 7.28     |          |                | 9.5        | 3.59         |                  |      |      |         |      |
| 17           | 1.30              | 7.41     |             |                 | 13.1       | 7.30     |          |                | 12.1       | 3.79         |                  |      |      |         |      |
| 18           | 1.00              | 7.54     |             |                 | 18.8       | 7.40     |          |                | 14.0       | 4.05         |                  |      |      |         |      |
| 19           | 1.40              | 9.21     | 39.2        | 594.0           | 14.7       | 7.33     | 2.0      | 16.0           | 14.0       | 5.75         |                  |      |      |         |      |
| 20           | 1.50              | 8.34     |             |                 | 14.1       | 7.40     |          |                | 12.0       | 6.94         |                  |      | 0.09 |         |      |
| 21           | 1.10              | 7.76     |             |                 | 13.3       | 7.32     |          |                | 11.0       | 3.07         |                  |      |      |         |      |
| 22           | 1.10              | 7.71     |             |                 | 11.7       | 7.02     |          |                | 11.7       | 5.38         |                  |      |      |         |      |
| 23           | 1.20              | 7.95     |             |                 | 11.1       | 7.18     |          |                | 11.3       | 5.06         |                  |      |      |         |      |
| 24           | 1.80              | 7.67     |             |                 | 13.1       | 7.35     |          |                | 12.7       | 4.00         |                  |      |      |         |      |
| 25           | 1.90              | 8.04     |             |                 | 12.6       | 7.52     |          |                | 10.8       | 6.09         |                  |      |      |         |      |
| 26           | 1.00              | 8.21     | 137.0       | 396.0           | 10.2       | 7.50     | 12.3     | 20.0           | 9.7        | 7.37         |                  |      |      |         |      |
| 27           | 2.00              | 7.67     |             |                 | 14.0       | 7.46     |          |                | 11.0       | 5.25         |                  |      |      |         |      |
| 28           | 2.70              | 7.95     |             |                 | 10.6       | 7.37     |          |                | 11.3       | 7.20         |                  |      |      |         |      |
| 29           |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |
| 30           |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |
| 31           |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |
| Mo. of Samp. | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0     | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |      |      |         |      |
| tot of Samp. | 40.0              |          | 584.2       | 1760.0          | 321.0      | 204.3    | 91.3     | 70.0           | 294.7      | 164.7        | 0.0              |      |      |         |      |
| Monthly Avg. | 1.4               |          | 146.1       | 440.0           |            |          | 22.8     | 17.5           |            |              | #DIV/0!          |      |      |         |      |
| Daily Max.   | 2.7               | 9.2      | 212.0       | 594.0           | 18.8       | 7.5      | 63.6     | 21.0           | 14.0       | 8.8          | 0.0              |      |      |         |      |
| Daily Min.   |                   | 7.0      |             |                 | 7.3        | 7.0      |          |                | 7.6        | 3.1          | 0.0              |      |      |         |      |
| Max 7/Avg.   |                   |          |             |                 |            |          |          |                |            |              |                  |      |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



# ANALYTICAL RESULTS

Project: SHOAL 2/13/14

Pace Project No.: 60162938

| Sample: SHOAL INFLUENT-[A1]  |                                                          | Lab ID: 60162938001 | Collected: 02/13/14 07:15 | Received: 02/13/14 18:40 | Matrix: Water  |                |         |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |         |      |
| Total Suspended Solids       | 360                                                      | mg/L                | 5.0                       | 1                        |                | 02/19/14 11:08 |         |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |         |      |
| BOD, 5 day                   | 212                                                      | mg/L                | 2.0                       | 1                        | 02/14/14 15:27 | 02/19/14 16:18 |         |      |

| Sample: SHOAL EFFLUENT [C2]  |                                                          | Lab ID: 60162938002 | Collected: 02/13/14 07:30 | Received: 02/13/14 18:40 | Matrix: Water  |                |           |      |
|------------------------------|----------------------------------------------------------|---------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                   | Results                                                  | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| 2540D Total Suspended Solids | Analytical Method: SM 2540D                              |                     |                           |                          |                |                |           |      |
| Total Suspended Solids       | 21.0                                                     | mg/L                | 5.0                       | 1                        |                | 02/19/14 11:09 |           |      |
| 5210B BOD, 5 day             | Analytical Method: SM 5210B Preparation Method: SM 5210B |                     |                           |                          |                |                |           |      |
| BOD, 5 day                   | 63.6                                                     | mg/L                | 2.0                       | 1                        | 02/14/14 15:29 | 02/19/14 16:21 |           |      |
| 350.1 Ammonia                | Analytical Method: EPA 350.1                             |                     |                           |                          |                |                |           |      |
| Nitrogen, Ammonia            | 0.12                                                     | mg/L                | 0.10                      | 1                        |                | 02/18/14 13:20 | 7664-41-7 |      |

## REPORT OF LABORATORY ANALYSIS

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Date: 02/24/2014 10:07 AM

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |  |  |  |  |  |                               |  |  |  |  |  |                                                    |  |  |  |
|---------------------------------------------|--|--|--|--|--|-------------------------------|--|--|--|--|--|----------------------------------------------------|--|--|--|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |  |  |  |  |  | CITY<br><b>NEOSHO</b>         |  |  |  |  |  | COUNTY/REGION<br><b>SPRINGFIELD</b>                |  |  |  |
| FOR THE MONTH OF<br><b>November 2014</b>    |  |  |  |  |  | OUTFALL NUMBER<br><b>#001</b> |  |  |  |  |  | PERMIT NUMBER<br><b>MO# 0104906</b>                |  |  |  |
|                                             |  |  |  |  |  |                               |  |  |  |  |  | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |  |  |  |

| INFLUENT     |                   |          |             |                 |            |          |          |                |            |              |                   |      |      |         |      |
|--------------|-------------------|----------|-------------|-----------------|------------|----------|----------|----------------|------------|--------------|-------------------|------|------|---------|------|
| DAY          | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | SNOW | RAIN | WEATHER | TIME |
| 1            | 1.2               | 7.61     |             |                 | 17.9       | 7.40     |          |                | 16.5       | 5.55         |                   |      |      |         |      |
| 2            | 1.0               | 7.64     |             |                 | 18.6       | 7.61     |          |                | 17.1       | 6.42         |                   |      |      |         |      |
| 3            | 1.1               | 7.51     |             |                 | 18.3       | 7.51     |          |                | 17.6       | 6.07         |                   |      |      |         |      |
| 4            | 3.6               | 7.12     |             |                 | 17.3       | 7.35     |          |                | 16.0       | 3.65         |                   |      | 1.25 |         |      |
| 5            | 2.1               | 7.36     | 133.0       | 60.0            | 18.6       | 7.50     | 3.1      | 5.0            | 16.5       | 3.67         |                   |      | 0.25 |         |      |
| 6            | 1.8               | 7.29     |             |                 | 18.0       | 7.40     |          |                | 17.0       | 3.16         |                   |      |      |         |      |
| 7            | 1.8               | 7.34     |             |                 | 20.0       | 7.48     |          |                | 18.0       | 3.78         |                   |      |      |         |      |
| 8            | 1.2               | 7.30     |             |                 | 19.0       | 7.45     |          |                | 17.0       | 3.52         |                   |      |      |         |      |
| 9            | 1.6               | 7.38     |             |                 | 16.2       | 7.13     |          |                | 15.7       | 4.20         |                   |      |      |         |      |
| 10           | 1.3               | 7.51     |             |                 | 18.9       | 7.42     |          |                | 17.8       | 5.17         |                   |      |      |         |      |
| 11           | 1.8               | 7.38     |             |                 | 17.2       | 7.48     |          |                | 15.1       | 3.54         |                   |      |      |         |      |
| 12           | 1.4               | 7.78     |             |                 | 16.0       | 7.56     |          |                | 13.0       | 2.42         |                   |      |      |         |      |
| 13           | 2.2               | 7.24     | 418.0       | 573.0           | 14.2       | 7.54     | 5.5      | 10.0           | 11.0       | 5.00         |                   |      |      |         |      |
| 14           | 1.4               | 7.28     |             |                 | 14.8       | 7.50     |          |                | 11.4       | 5.12         |                   |      |      |         |      |
| 15           | 1.3               | 7.27     |             |                 | 14.3       | 7.37     |          |                | 12.3       | 5.69         |                   |      |      |         |      |
| 16           | 1.1               | 7.65     |             |                 | 15.1       | 7.47     |          |                | 13.5       | 3.96         |                   |      |      |         |      |
| 17           | 1.3               | 7.33     |             |                 | 13.6       | 7.28     |          |                | 8.6        | 4.15         |                   | 1.0  | 0.07 |         |      |
| 18           | 2.1               | 7.42     |             |                 | 14.8       | 7.40     |          |                | 12.0       | 8.25         |                   |      |      |         |      |
| 19           | 1.5               | 9.44     | 1070.0      | 336.0           | 16.5       | 7.72     | 18.7     | 8.0            | 14.6       | 5.00         |                   |      |      |         |      |
| 20           | 1.4               | 9.33     |             |                 | 16.0       | 7.48     |          |                | 13.7       | 4.00         |                   |      |      |         |      |
| 21           | 1.5               | 7.52     |             |                 | 16.3       | 7.50     |          |                | 15.4       | 6.32         |                   |      |      |         |      |
| 22           | 1.0               | 7.56     |             |                 | 16.4       | 7.57     |          |                | 15.2       | 7.33         |                   |      |      |         |      |
| 23           | 1.7               | 7.42     |             |                 | 17.0       | 7.53     |          |                | 16.3       | 5.57         |                   |      |      |         |      |
| 24           | 1.9               | 7.92     |             |                 | 16.0       | 7.48     |          |                | 16.4       | 4.00         |                   |      | 0.55 |         |      |
| 25           | 2.0               | 7.88     | 459.0       | 372.0           | 16.3       | 7.34     | 7.1      | 5.0            | 15.8       | 4.61         |                   |      |      |         |      |
| 26           | 1.4               | 9.22     |             |                 | 16.0       | 7.50     |          |                | 14.8       | 5.00         |                   |      |      |         |      |
| 27           | 1.7               | 9.34     |             |                 | 13.4       | 7.42     |          |                | 13.9       | 6.73         |                   |      |      |         |      |
| 28           | 1.3               | 9.62     |             |                 | 14.2       | 7.39     |          |                | 14.5       | 6.19         |                   |      |      |         |      |
| 29           | 1.5               | 7.58     |             |                 | 15.2       | 6.82     |          |                | 14.5       | 5.00         |                   |      |      |         |      |
| 30           | 1.6               | 7.27     |             |                 | 15.3       | 6.67     |          |                | 17.7       | 5.03         |                   |      |      |         |      |
| 31           |                   |          |             |                 |            |          |          |                |            |              |                   |      |      |         |      |
| to. of Samp. | 30.0              | 30.0     | 4.0         | 4.0             | 30.0       | 30.0     | 4.0      | 4.0            | 30.0       | 30.0         | 0.0               |      |      |         |      |
| ot of Samp.  | 47.8              | 233.5    | 2080.0      | 1341.0          | 491.4      | 222.3    | 34.4     | 28.0           | 448.9      | 148.1        | 0.0               |      |      |         |      |
| Monthly Avg. | 1.6               |          | 520.0       | 335.3           |            |          | 8.6      | 7.0            | 15.0       | 4.9          | #DIV/0!           |      |      |         |      |
| aily Max.    | 3.6               | 9.6      | 1070.0      | 573.0           | 20.0       | 7.7      | 18.7     | 10.0           | 18.0       | 8.3          | 0.0               |      |      |         |      |
| aily Min.    |                   | 7.1      |             |                 | 13.4       | 6.7      |          |                | 8.6        | 2.4          | 0.0               |      |      |         |      |
| Max 7/Avg.   |                   |          |             |                 |            |          |          |                |            |              |                   |      |      |         |      |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                                     |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
|-----------------------------------------------------|-------------------|----------|-------------|-----------------|-------|------------------------------|----------|----------------|------------|--------------|---------------------------------------------|-------|------|---------|------|
| NAME OF FACILITY<br>Shoal Creek WWTP                |                   |          |             |                 |       | CITY<br>NEOSHO               |          |                |            |              | COUNTY/REGION<br>SPRINGFIELD                |       |      |         |      |
| FOR THE MONTH OF<br>August-14                       |                   |          |             |                 |       | PERMIT NUMBER<br>MO# 0104906 |          |                |            |              | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |       |      |         |      |
| INFLUENT                                            |                   |          |             |                 |       | EFFLUENT                     |          |                |            |              |                                             |       |      |         |      |
| DAY                                                 | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS                     | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-COLI<br>Col/100                           | OTHER | RAIN | WEATHER | TIME |
| 1                                                   | 1.0               | 7.98     |             |                 | 22.3  | 7.90                         |          |                | 23.0       | 2.50         |                                             |       |      |         |      |
| 2                                                   | 1.2               | 7.93     |             |                 | 21.4  | 7.86                         |          |                | 22.9       | 1.65         |                                             |       |      |         |      |
| 3                                                   | 1.3               | 7.55     |             |                 | 22.3  | 7.81                         |          |                | 23.4       | 1.50         |                                             |       |      |         |      |
| 4                                                   | 1.0               | 7.82     |             |                 | 23.7  | 7.70                         |          |                | 25.5       | 2.36         |                                             |       |      |         |      |
| 5                                                   | 1.1               | 7.55     |             |                 | 27.6  | 7.95                         |          |                | 27.0       | 2.20         |                                             |       |      |         |      |
| 6                                                   | 1.0               | 7.95     | 244.0       | 310.0           | 26.3  | 7.86                         | 2.0      | 5.0            | 27.0       | 7.96         | 5.0                                         |       |      |         |      |
| 7                                                   | 2.3               | 7.60     |             |                 | 24.5  | 7.94                         |          |                | 25.0       | 6.08         |                                             |       | 1.35 |         |      |
| 8                                                   | 1.4               | 9.38     |             |                 | 24.5  | 8.74                         |          |                | 25.0       | 3.03         |                                             |       | 0.25 |         |      |
| 9                                                   | 2.2               | 7.49     |             |                 | 23.6  | 7.74                         |          |                | 23.0       | 2.66         |                                             |       |      |         |      |
| 10                                                  | 1.5               | 7.53     |             |                 | 23.0  | 7.80                         |          |                | 23.9       | 2.44         |                                             |       | 0.25 |         |      |
| 11                                                  | 1.3               | 7.42     |             |                 | 26.2  | 7.68                         |          |                | 25.8       | 4.63         |                                             |       |      |         |      |
| 12                                                  | 1.1               | 7.46     |             |                 | 24.5  | 7.83                         |          |                | 25.0       | 3.05         |                                             |       |      |         |      |
| 13                                                  | 2.0               | 7.54     | 360.0       | 256.0           | 24.3  | 7.70                         | 2.0      | 5.0            | 25.2       | 2.78         | 8.0                                         |       |      |         |      |
| 14                                                  | 1.0               | 7.63     |             |                 | 26.0  | 7.73                         |          |                | 24.7       | 1.45         |                                             |       |      |         |      |
| 15                                                  | 1.2               | 8.56     |             |                 | 22.5  | 7.70                         |          |                | 22.5       | 2.80         |                                             |       |      |         |      |
| 16                                                  | 0.4               | 7.85     |             |                 | 23.5  | 8.01                         |          |                | 24.4       | 1.66         |                                             |       |      |         |      |
| 17                                                  | 1.6               | 7.50     |             |                 | 24.0  | 7.85                         |          |                | 24.3       | 2.10         |                                             |       |      |         |      |
| 18                                                  | 1.6               | 7.46     |             |                 | 27.2  | 7.65                         |          |                | 27.4       | 2.60         |                                             |       |      |         |      |
| 19                                                  | 1.1               | 7.43     |             |                 | 27.6  | 7.75                         |          |                | 27.0       | 2.50         |                                             |       |      |         |      |
| 20                                                  | 1.6               | 7.44     | 326.0       | 180.0           | 27.1  | 7.73                         | 7.0      | 8.0            | 26.7       | 4.65         | 32.0                                        |       |      |         |      |
| 21                                                  | 3.0               | 8.87     |             |                 | 28.0  | 7.87                         |          |                | 27.5       | 4.30         |                                             |       |      |         |      |
| 22                                                  | 1.0               | 7.60     |             |                 | 26.5  | 7.48                         |          |                | 26.5       | 5.10         |                                             |       |      |         |      |
| 23                                                  | 2.2               | 7.54     |             |                 | 27.1  | 7.84                         |          |                | 28.1       | 4.94         |                                             |       |      |         |      |
| 24                                                  | 1.2               | 7.39     |             |                 | 29.1  | 7.78                         |          |                | 28.3       | 2.53         |                                             |       |      |         |      |
| 25                                                  | 1.2               | 7.57     |             |                 | 28.8  | 7.70                         |          |                | 28.0       | 1.84         |                                             |       |      |         |      |
| 26                                                  | 2.3               | 7.55     |             |                 | 27.4  | 7.65                         |          |                | 28.0       | 2.80         |                                             |       |      |         |      |
| 27                                                  | 1.7               | 7.57     | 361.0       | 164.0           | 27.2  | 7.82                         | 2        | 5              | 28.0       | 5.80         | 12.0                                        |       |      |         |      |
| 28                                                  | 1.8               | 7.56     |             |                 | 28.6  | 7.85                         |          |                | 27.6       | 4.00         |                                             |       |      |         |      |
| 29                                                  | 2.6               | 7.51     |             |                 | 27.4  | 7.74                         |          |                | 24.5       | 4.05         |                                             |       |      |         |      |
| 30                                                  | 0.4               | 7.53     |             |                 | 23.4  | 7.87                         |          |                | 25.2       | 2.32         |                                             |       |      |         |      |
| 31                                                  | 1.0               | 7.64     |             |                 | 23.9  | 7.76                         |          |                | 25.1       | 5.83         |                                             |       |      |         |      |
| d. of Samp.                                         |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
| rt of Samp.                                         | 45.3              | 239.4    | 1291.0      | 910.0           | 789.5 | 242.3                        | 13.0     | 23.0           | 795.5      | 104.1        |                                             |       |      |         |      |
| onthly Avg.                                         | 1.8               | 7.0      | #DIV/0!     | #DIV/0!         | 16.5  | 7.0                          | #DIV/0!  | #DIV/0!        | 16.4       | 3.9          |                                             |       |      |         |      |
| aily Max.                                           | 3.0               | 9.4      | 361.0       | 310.0           | 29.1  | 8.7                          | 7.0      | 8.0            | 28.3       | 8.0          | 32.0                                        |       |      |         |      |
| aily Min.                                           | 0.4               | 7.4      |             |                 | 21.4  | 7.5                          |          |                | 22.5       | 1.5          | 5.0                                         |       |      |         |      |
| ax 7/Avg.                                           |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
| NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |
| 1780-1306 (8-03)                                    |                   |          |             |                 |       |                              |          |                |            |              |                                             |       |      |         |      |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                                       |                   |          |             |                 |       |                               |          |                |            |              |                   |                                                    |      |         |      |  |  |
|-------------------------------------------------------|-------------------|----------|-------------|-----------------|-------|-------------------------------|----------|----------------|------------|--------------|-------------------|----------------------------------------------------|------|---------|------|--|--|
| NAME OF FACILITY<br><b>Shoal Creek WWTP</b>           |                   |          |             |                 |       | CITY<br><b>NEOSHO</b>         |          |                |            |              |                   | COUNTY/REGION<br><b>SPRINGFIELD</b>                |      |         |      |  |  |
| FOR THE MONTH OF<br><b>April-15</b>                   |                   |          |             |                 |       | OUTFALL NUMBER<br><b>#001</b> |          |                |            |              |                   | PERMIT NUMBER<br><b>MO# 0104906</b>                |      |         |      |  |  |
|                                                       |                   |          |             |                 |       |                               |          |                |            |              |                   | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |      |         |      |  |  |
| INFLUENT                                              |                   |          |             |                 |       | EFFLUENT                      |          |                |            |              |                   |                                                    |      |         |      |  |  |
| DAY                                                   | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS                      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | E-Coli<br>Col/100 | OTHER                                              | RAIN | WEATHER | TIME |  |  |
| 1                                                     | 2.1               | 9.00     | 325.0       | 445.0           | 17.7  | 7.58                          | 8.4      | 15.0           | 16.5       | 5.54         |                   |                                                    |      |         |      |  |  |
| 2                                                     | 2.7               | 7.48     |             |                 | 17.1  | 7.34                          |          |                | 17.6       | 4.38         |                   | .93                                                |      |         |      |  |  |
| 3                                                     | 2.4               | 7.46     |             |                 | 14.6  | 7.42                          |          |                | 17.0       | 4.44         |                   | .18                                                |      |         |      |  |  |
| 4                                                     | 2.0               | 7.96     |             |                 | 12.1  | 7.54                          |          |                | 14.2       | 5.05         |                   |                                                    |      |         |      |  |  |
| 5                                                     | 3.0               | 7.38     |             |                 | 12.9  | 7.50                          |          |                | 14.6       | 3.95         |                   |                                                    |      |         |      |  |  |
| 6                                                     | 2.3               | 7.54     |             |                 | 14.4  | 7.36                          |          |                | 15.1       | 4.81         |                   | .11                                                |      |         |      |  |  |
| 7                                                     | 2.2               | 7.48     |             |                 | 20.7  | 7.26                          |          |                | 19.0       | 3.60         |                   |                                                    |      |         |      |  |  |
| 8                                                     | 2.2               | 7.31     | 201.0       | 220.0           | 21.0  | 7.19                          | 10.1     | 13.0           | 20.4       | 3.32         | 33100.0           |                                                    |      |         |      |  |  |
| 9                                                     | 2.0               | 7.18     |             |                 | 20.1  | 7.24                          |          |                | 21.2       | 3.28         |                   |                                                    |      |         |      |  |  |
| 10                                                    | 1.8               | 7.47     |             |                 | 20.3  | 7.25                          |          |                | 20.5       | 3.25         |                   |                                                    |      |         |      |  |  |
| 11                                                    | 1.7               | 7.16     |             |                 | 15.6  | 7.37                          |          |                | 16.2       | 3.76         |                   |                                                    |      |         |      |  |  |
| 12                                                    | 1.6               | 7.35     |             |                 | 16.2  | 7.41                          |          |                | 16.4       | 2.93         |                   |                                                    |      |         |      |  |  |
| 13                                                    | 1.9               | 7.40     |             |                 | 16.3  | 7.45                          |          |                | 17.6       | 3.34         |                   | .12                                                |      |         |      |  |  |
| 14                                                    | 2.0               | 7.33     |             |                 | 17.3  | 7.48                          |          |                | 18.5       | 3.64         |                   | .04                                                |      |         |      |  |  |
| 15                                                    | 2.1               | 7.46     | 94.5        | 128.0           | 16.8  | 7.36                          | 7.6      | 5.0            | 19.5       | 4.45         | 1187.0            | .19                                                |      |         |      |  |  |
| 16                                                    | 1.6               | 7.40     |             |                 | 21.5  | 7.47                          |          |                | 23.5       | 4.88         |                   |                                                    |      |         |      |  |  |
| 17                                                    | 1.6               | 8.50     |             |                 | 15.5  | 7.68                          |          |                | 18.4       | 6.18         |                   |                                                    |      |         |      |  |  |
| 18                                                    | 3.6               | 7.47     |             |                 | 15.8  | 7.48                          |          |                | 18.2       | 3.96         |                   | 1.49                                               |      |         |      |  |  |
| 19                                                    | 2.7               | 7.67     |             |                 | 15.2  | 7.35                          |          |                | 17.30      | 3.85         |                   | .78                                                |      |         |      |  |  |
| 20                                                    | 2.7               | 7.55     |             |                 | 15.1  | 7.43                          |          |                | 16.40      | 5.18         |                   | .25                                                |      |         |      |  |  |
| 21                                                    | 2.3               | 7.48     | 50.7        | 71.0            | 21.0  | 7.57                          | 4.0      | 5.0            | 17.80      | 5.05         | 24196.0           |                                                    |      |         |      |  |  |
| 22                                                    | 2.3               | 7.52     |             |                 | 20.2  | 7.36                          |          |                | 18.40      | 4.62         |                   | .09                                                |      |         |      |  |  |
| 23                                                    | 2.0               | 7.48     |             |                 | 19.8  | 7.32                          |          |                | 18.40      | 4.86         |                   |                                                    |      |         |      |  |  |
| 24                                                    | 1.9               | 7.66     |             |                 | 18.0  | 7.60                          |          |                | 17.80      | 4.28         |                   |                                                    |      |         |      |  |  |
| 25                                                    | 1.8               | 7.60     |             |                 | 18.5  | 7.50                          |          |                | 18.00      | 4.50         |                   |                                                    |      |         |      |  |  |
| 26                                                    | 1.6               | 6.77     |             |                 | 16.3  | 7.30                          |          |                | 16.50      | 2.50         |                   |                                                    |      |         |      |  |  |
| 27                                                    | 2.0               | 7.30     |             |                 | 17.3  | 7.55                          |          |                | 18.6       | 2.56         |                   |                                                    |      |         |      |  |  |
| 28                                                    | 2.7               | 7.45     |             |                 | 18.8  | 7.49                          |          |                | 20.9       | 5.05         |                   |                                                    |      |         |      |  |  |
| 29                                                    | 1.7               | 7.40     | 291.0       | 532.0           | 20.0  | 7.55                          | 11.5     | 20.0           | 20.4       | 5.50         | 5794.0            |                                                    |      |         |      |  |  |
| 30                                                    | 1.8               | 7.34     |             |                 | 21.0  | 7.40                          |          |                | 21.8       | 5.26         |                   |                                                    |      |         |      |  |  |
| 31                                                    |                   |          |             |                 |       |                               |          |                |            |              |                   | 4.18                                               |      |         |      |  |  |
| No. of Samp.                                          |                   |          |             |                 |       |                               |          |                |            |              |                   |                                                    |      |         |      |  |  |
| Tot of Samp.                                          | 64.3              | 225.6    | 962.2       | 1396.0          | 527.1 | 222.8                         | 41.6     | 58.0           |            | 128.0        |                   |                                                    |      |         |      |  |  |
| Monthly Avg.                                          | #DIV/0!           |          | #DIV/0!     | #DIV/0!         |       |                               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                   |                                                    |      |         |      |  |  |
| Daily Max.                                            | 3.6               | 9.0      | 325.0       | 532.0           | 21.5  | 7.7                           | 11.5     | 20.0           | 23.5       | 6.2          | 33100.0           |                                                    |      |         |      |  |  |
| Daily Min.                                            | 1.6               | 6.8      |             |                 | 12.1  | 7.2                           |          |                | 14.2       | 2.5          | 1187.0            |                                                    |      |         |      |  |  |
| Max 7/Avg.                                            |                   |          |             |                 |       |                               |          |                |            |              |                   |                                                    |      |         |      |  |  |
| • NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |             |                 |       |                               |          |                |            |              |                   |                                                    |      |         |      |  |  |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |       | CITY          |          |                |            |              | COUNTY/REGION           |             |      |         |      |
|------------------|-------------------|----------|-------------|-----------------|-------|---------------|----------|----------------|------------|--------------|-------------------------|-------------|------|---------|------|
| FOR THE MONTH OF |                   |          |             |                 |       | PERMIT NUMBER |          |                |            |              | TYPE TREATMENT FACILITY |             |      |         |      |
| February-15      |                   |          |             |                 |       | MO# 0104906   |          |                |            |              | OXI-DATION DITCH        |             |      |         |      |
| INFLUENT         |                   |          |             |                 |       | EFFLUENT      |          |                |            |              |                         |             |      |         |      |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP  | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>mg/L | Fecal<br>Col/100        | snow inches | RAIN | WEATHER | TIME |
| 1                | 1.4               | 7.68     |             |                 | 11.3  | 7.10          |          |                | 11.6       | 3.65         |                         |             | 0.37 |         |      |
| 2                | 1.5               | 7.68     |             |                 | 11.8  | 7.38          |          |                | 11.4       | 2.55         |                         |             |      |         |      |
| 3                | 1.5               | 7.65     |             |                 | 14.6  | 7.40          |          |                | 11.4       | 2.75         |                         |             |      |         |      |
| 4                | 1.3               | 7.44     | 2.0         | 394.0           | 12.8  | 7.36          | 9.0      | 10.0           | 10.2       | 4.05         |                         |             |      |         |      |
| 5                | 1.3               | 7.35     |             |                 | 14.3  | 7.38          |          |                | 15.7       | 3.60         |                         |             |      |         |      |
| 6                | 1.7               | 7.48     |             |                 | 13.6  | 7.26          |          |                | 10.8       | 4.24         |                         |             |      |         |      |
| 7                | 1.1               | 7.37     |             |                 | 14.1  | 7.26          |          |                | 14.3       | 3.76         |                         |             |      |         |      |
| 8                | 1.0               | 7.44     |             |                 | 13.9  | 7.30          |          |                | 13.4       | 3.88         |                         |             |      |         |      |
| 9                | 1.5               | 7.63     |             |                 | 13.7  | 7.19          |          |                | 14.2       | 3.10         |                         |             |      |         |      |
| 10               | 1.4               | 7.58     |             |                 | 14.3  | 7.32          |          |                | 15.0       | 2.46         |                         |             |      |         |      |
| 11               | 1.4               | 9.40     | 261.0       | 176.0           | 13.1  | 7.50          | 12.2     | 8.0            | 12.8       | 3.48         |                         |             |      |         |      |
| 12               | 1.3               | 8.11     |             |                 | 12.7  | 7.11          |          |                | 15.2       | 3.00         |                         |             |      |         |      |
| 13               | 1.2               | 7.86     |             |                 | 13.4  | 7.26          |          |                | 12.9       | 4.16         |                         |             |      |         |      |
| 14               | 1.1               | 7.47     |             |                 | 11.6  | 7.29          |          |                | 10.6       | 4.66         |                         |             |      |         |      |
| 15               | 1.0               | 7.60     |             |                 | 11.5  | 7.43          |          |                | 10.5       | 4.64         |                         |             |      |         |      |
| 16               | 1.1               | 9.81     |             |                 | 10.6  | 7.63          |          |                | 9.3        | 4.40         |                         |             |      |         |      |
| 17               | 1.3               | 7.56     |             |                 | 11.0  | 7.43          |          |                | 10.0       | 3.80         |                         | 5.0         | 0.91 |         |      |
| 18               | 1.4               | 7.55     | 233.0       | 326.0           | 9.8   | 7.37          | 6.5      | 5.0            | 9.5        | 3.76         |                         |             |      |         |      |
| 19               | 1.3               | 7.70     |             |                 | 10.3  | 7.41          |          |                | 8.8        | 3.92         |                         |             |      |         |      |
| 20               | 1.4               | 7.67     |             |                 | 13.0  | 7.38          |          |                | 11.0       | 3.44         |                         |             |      |         |      |
| 21               | 2.4               | 7.42     |             |                 | 9.4   | 7.44          |          |                | 12.0       | 3.52         |                         |             | 0.50 |         |      |
| 22               | 2.4               | 7.40     |             |                 | 12.3  | 7.43          |          |                | 11.5       | 3.40         |                         |             |      |         |      |
| 23               | 1.9               | 7.42     |             |                 | 9.5   | 7.30          |          |                | 9.1        | 4.28         |                         |             |      |         |      |
| 24               | 2.0               | 8.22     |             |                 | 10.0  | 7.41          |          |                | 11.0       | 3.25         |                         |             |      |         |      |
| 25               | 1.6               | 7.63     | 302.0       | 450.0           | 11.1  | 7.20          | 4.1      | 5.0            | 10.7       | 2.87         |                         |             |      |         |      |
| 26               | 1.7               | 7.98     |             |                 | 10.8  | 7.45          |          |                | 9.9        | 2.75         |                         |             |      |         |      |
| 27               | 1.7               | 7.42     |             |                 | 10.2  | 7.43          |          |                | 9.0        | 3.06         |                         |             |      |         |      |
| 28               | 1.7               | 8.24     |             |                 | 8.9   | 6.76          |          |                | 9.7        | 3.46         |                         |             |      |         |      |
| 29               |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| 30               |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| 31               |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| No. of Samp.     |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |
| Tot of Samp.     | 41.6              | 217.8    | 798.0       | 1346.0          | 333.6 | 205.2         | 31.8     | 28.0           | 321.5      | 99.9         |                         |             |      |         |      |
| Monthly Avg.     | #DIV/0!           |          | #DIV/0!     | #DIV/0!         |       |               | #DIV/0!  | #DIV/0!        | #DIV/0!    | #DIV/0!      |                         |             |      |         |      |
| Daily Max.       | 2.4               | 9.8      | 302.0       | 450.0           | 14.6  | 7.6           | 12.2     | 10.0           | 15.7       | 4.7          | 0.0                     |             |      |         |      |
| Daily Min.       | 1.0               | 7.4      |             |                 | 8.9   | 6.8           |          |                | 8.8        | 2.5          | 0.0                     |             |      |         |      |
| Max 7/Avg.       |                   |          |             |                 |       |               |          |                |            |              |                         |             |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                                     |                   |          |             |                 |            |                               |          |                |            |              |                                                    |       |      |         |      |
|-----------------------------------------------------|-------------------|----------|-------------|-----------------|------------|-------------------------------|----------|----------------|------------|--------------|----------------------------------------------------|-------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b>         |                   |          |             |                 |            | CITY<br><b>NEOSHO</b>         |          |                |            |              | COUNTY/REGION<br><b>SPRINGFIELD</b>                |       |      |         |      |
| FOR THE MONTH OF<br><b>June-13</b>                  |                   |          |             |                 |            | OUTFALL NUMBER<br><b>#001</b> |          |                |            |              | PERMIT NUMBER<br><b>MO# 0104906</b>                |       |      |         |      |
|                                                     |                   |          |             |                 |            |                               |          |                |            |              | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |       |      |         |      |
| INFLUENT                                            |                   |          |             |                 |            | EFFLUENT                      |          |                |            |              |                                                    |       |      |         |      |
| JAY                                                 | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100                                  | OTHER | RAIN | WEATHER | TIME |
| 1                                                   | 3.60              | 7.35     |             |                 | 18.7       | 7.61                          |          |                | 19.7       | 4.63         |                                                    |       | 0.52 |         |      |
| 2                                                   | 2.20              | 7.50     |             |                 | 18.0       | 7.67                          |          |                | 19.1       | 4.96         |                                                    |       |      |         |      |
| 3                                                   | 2.70              | 7.52     |             |                 | 21.2       | 7.58                          |          |                | 20.5       | 4.98         |                                                    |       |      |         |      |
| 4                                                   | 2.00              | 7.51     |             |                 | 20.2       | 7.68                          |          |                | 20.2       | 5.22         |                                                    |       |      |         |      |
| 5                                                   | 2.80              | 7.53     |             |                 | 18.6       | 7.63                          |          |                | 19.9       | 5.58         |                                                    |       | 1.03 |         |      |
| 6                                                   | 2.90              | 7.5      | 228.0       | 175.0           | 18.9       | 7.60                          | 8.9      | 5.0            | 19.6       | 4.28         | 1.0                                                |       | 0.31 |         |      |
| 7                                                   | 2.30              | 7.48     |             |                 | 18.5       | 7.55                          |          |                | 19.2       | 4.04         |                                                    |       |      |         |      |
| 8                                                   | 1.80              | 7.57     |             |                 | 18.1       | 7.56                          |          |                | 19.1       | 3.65         |                                                    |       |      |         |      |
| 9                                                   | 1.60              | 7.70     |             |                 | 18.9       | 7.52                          |          |                | 19.8       | 3.16         |                                                    |       |      |         |      |
| 10                                                  | 1.70              | 7.44     |             |                 | 24.5       | 7.47                          |          |                | 23.5       | 5.44         |                                                    |       |      |         |      |
| 11                                                  | 2.20              | 7.37     |             |                 | 26.0       | 7.40                          |          |                | 24.2       | 5.03         |                                                    |       |      |         |      |
| 12                                                  | 2.00              | 6.90     |             |                 | 24.2       | 6.91                          |          |                | 24.7       | 2.48         |                                                    |       |      |         |      |
| 13                                                  | 2.20              | 6.87     | 239         | 210             | 27.0       | 6.92                          | 3.1      | 5.0            | 25.0       | 3.45         | 7.0                                                |       |      |         |      |
| 14                                                  | 2.00              | 7.01     |             |                 | 26.5       | 7.00                          |          |                | 25.6       | 5.65         |                                                    |       |      |         |      |
| 15                                                  | 1.40              | 7.18     |             |                 | 23.3       | 7.08                          |          |                | 23.0       | 5.14         |                                                    |       |      |         |      |
| 16                                                  | 2.00              | 7.00     |             |                 | 22.0       | 7.01                          |          |                | 23.4       | 2.43         |                                                    |       | 1.42 |         |      |
| 17                                                  | 2.10              | 7.02     |             |                 | 21.0       | 7.02                          |          |                | 22.3       | 2.38         |                                                    |       | 0.24 |         |      |
| 18                                                  | 1.60              | 7.02     |             |                 | 24.0       | 7.00                          |          |                | 24.0       | 2.28         |                                                    |       | 0.07 |         |      |
| 19                                                  | 1.50              | 7.00     | 180.0       | 102.0           | 25.8       | 7.00                          | 2.5      | 5.0            | 24.0       | 2.65         | 10.0                                               |       |      |         |      |
| 20                                                  | 1.50              | 7.43     |             |                 | 21.0       | 7.39                          |          |                | 22.5       | 3.41         |                                                    |       |      |         |      |
| 21                                                  | 1.40              | 7.71     |             |                 | 24.4       | 7.33                          |          |                | 25.0       | 2.69         |                                                    |       |      |         |      |
| 22                                                  | 1.20              | 7.37     |             |                 | 20.8       | 7.27                          |          |                | 23.5       | 2.22         |                                                    |       |      |         |      |
| 23                                                  | 1.20              | 7.36     |             |                 | 21.1       | 7.26                          |          |                | 23.4       | 2.27         |                                                    |       |      |         |      |
| 24                                                  | 1.40              | 7.40     |             |                 | 27.5       | 7.36                          |          |                | 26.2       | 2.56         |                                                    |       |      |         |      |
| 25                                                  | 1.30              | 7.37     |             |                 | 27.7       | 7.36                          |          |                | 26.2       | 3.56         |                                                    |       |      |         |      |
| 26                                                  | 1.30              | 7.34     | 202.0       | 31.0            | 26.0       | 7.30                          | 2.4      | 5.0            | 26.4       | 3.85         | 15.0                                               |       |      |         |      |
| 27                                                  | 1.70              | 7.65     |             |                 | 26.4       | 7.45                          |          |                | 27.6       | 3.54         |                                                    |       |      |         |      |
| 28                                                  | 1.40              | 7.43     |             |                 | 26.0       | 7.32                          |          |                | 25.7       | 3.82         |                                                    |       |      |         |      |
| 29                                                  | 1.20              | 7.56     |             |                 | 22.2       | 7.42                          |          |                | 23.3       | 3.24         |                                                    |       |      |         |      |
| 30                                                  | 1.20              | 7.57     |             |                 | 21.2       | 7.43                          |          |                | 22.1       | 5.23         |                                                    |       |      |         |      |
| 31                                                  |                   |          |             |                 |            |                               |          |                |            |              |                                                    |       |      |         |      |
| 3. of Samp.                                         | 30.0              | 30.0     | 4.0         | 4.0             | 30.0       | 30.0                          | 4.0      | 4.0            | 30.0       | 30.0         | 4.0                                                |       |      |         |      |
| 4. of Samp.                                         | 55.4              |          | 849.0       | 518.0           | 679.7      | 220.1                         | 16.9     | 20.0           | 688.7      | 113.8        | 33.0                                               |       |      |         |      |
| Monthly Avg.                                        | 1.8               |          | 212.3       | 129.5           |            |                               | 4.2      | 5.0            |            |              | 8.3                                                |       |      |         |      |
| Daily Max.                                          | 3.6               | 7.7      | 239.0       | 210.0           | 27.7       | 7.7                           | 8.9      | 5.0            | 27.6       | 5.7          | 15.0                                               |       |      |         |      |
| Daily Min.                                          |                   | 6.9      |             |                 | 18.0       | 6.9                           |          |                | 19.1       | 2.2          | 1.0                                                |       |      |         |      |
| 1x 7/Avg.                                           |                   |          |             |                 |            |                               |          |                |            |              |                                                    |       |      |         |      |
| NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |             |                 |            |                               |          |                |            |              |                                                    |       |      |         |      |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                                     |                   |          |             |                 |            |                               |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |
|-----------------------------------------------------|-------------------|----------|-------------|-----------------|------------|-------------------------------|----------|----------------|------------|--------------|-------------------------------------|-------|------|---------|------|----------------------------------------------------|--|--|--|--|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b>         |                   |          |             |                 |            | CITY<br><b>NEOSHO</b>         |          |                |            |              | COUNTY/REGION<br><b>SPRINGFIELD</b> |       |      |         |      |                                                    |  |  |  |  |
| FOR THE MONTH OF<br><b>September-13</b>             |                   |          |             |                 |            | OUTFALL NUMBER<br><b>#001</b> |          |                |            |              | PERMIT NUMBER<br><b>MO# 0104906</b> |       |      |         |      | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |  |  |  |  |
| INFLUENT                                            |                   |          |             |                 |            | EFFLUENT                      |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |
| DAY                                                 | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100                   | OTHER | RAIN | WEATHER | TIME |                                                    |  |  |  |  |
| 1                                                   | 1.7               | 7.34     |             |                 | 23.4       | 7.16                          |          |                | 25.4       | 4.97         |                                     |       | 0.10 |         |      |                                                    |  |  |  |  |
| 2                                                   | 1.7               | 7.33     |             |                 | 22.6       | 7.28                          |          |                | 22.8       | 5.16         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 3                                                   | 1.2               | 7.20     |             |                 | 24.7       | 7.27                          |          |                | 25.0       | 4.40         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 4                                                   | 1.7               | 7.20     | 77.7        | 116.0           | 26.2       | 7.50                          | 2.0      | 7.0            | 25.0       | 4.70         | 15.0                                |       |      |         |      |                                                    |  |  |  |  |
| 5                                                   | 1.4               | 7.28     |             |                 | 26.7       | 7.36                          |          |                | 22.9       | 4.86         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 6                                                   | 1.5               | 7.44     |             |                 | 22.8       | 7.40                          |          |                | 23.1       | 4.44         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 7                                                   | 1.1               | 7.33     |             |                 | 22.7       | 7.59                          |          |                | 23.7       | 3.59         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 8                                                   | 1.2               | 7.34     |             |                 | 23.2       | 7.32                          |          |                | 24.5       | 3.33         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 9                                                   | 2.0               | 7.36     |             |                 | 23.1       | 7.31                          |          |                | 24.3       | 3.55         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 10                                                  | 2.0               | 7.41     |             |                 | 24.8       | 7.36                          |          |                | 25.1       | 3.66         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 11                                                  | 1.6               | 7.27     | 140.0       | 125.0           | 25.6       | 7.23                          | 3.0      | 8.0            | 26.6       | 3.00         | 60.0                                |       |      |         |      |                                                    |  |  |  |  |
| 12                                                  | 1.2               | 7.20     |             |                 | 25.5       | 7.13                          |          |                | 26.8       | 2.00         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 13                                                  | 1.2               | 7.24     |             |                 | 25.4       | 7.27                          |          |                | 25.3       | 3.05         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 14                                                  | 1.0               | 7.48     |             |                 | 23.5       | 7.10                          |          |                | 23.1       | 3.62         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 15                                                  | 1.1               | 7.33     |             |                 | 23.6       | 7.26                          |          |                | 23.0       | 3.60         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 16                                                  | 1.2               | 7.14     |             |                 | 24.0       | 7.15                          |          |                | 24.0       | 3.72         |                                     |       | 0.27 |         |      |                                                    |  |  |  |  |
| 17                                                  | 1.2               | 7.75     |             |                 | 24.0       | 7.60                          |          |                | 24.3       | 3.02         |                                     |       | 0.07 |         |      |                                                    |  |  |  |  |
| 18                                                  | 1.5               | 7.65     | 189.0       | 265.0           | 25.3       | 7.62                          | 3.1      | 7.0            | 25.5       | 5.08         | 23.0                                |       |      |         |      |                                                    |  |  |  |  |
| 19                                                  | 1.2               | 7.46     |             |                 | 25.8       | 7.54                          |          |                | 26.0       | 5.02         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 20                                                  | 1.5               | 7.59     |             |                 | 22.6       | 7.76                          |          |                | 23.5       | 3.00         |                                     |       | 1.42 |         |      |                                                    |  |  |  |  |
| 21                                                  | 1.4               | 7.70     |             |                 | 20.7       | 7.73                          |          |                | 21.6       | 3.05         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 22                                                  | 1.3               | 7.73     |             |                 | 21.1       | 7.78                          |          |                | 21.3       | 3.37         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 23                                                  | 1.3               | 7.63     | 870.0       | 393.0           | 22.8       | 7.64                          | 2.0      | 5.0            | 22.0       | 4.26         | 12.0                                |       |      |         |      |                                                    |  |  |  |  |
| 24                                                  | 2.1               | 7.48     |             |                 | 23.8       | 7.52                          |          |                | 23.0       | 4.08         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 25                                                  | 1.5               | 7.42     |             |                 | 24.0       | 7.56                          |          |                | 24.0       | 4.18         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 26                                                  | 2.1               | 7.83     |             |                 | 23.9       | 7.81                          |          |                | 23.7       | 3.15         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 27                                                  | 1.2               | 8.44     |             |                 | 24.5       | 7.77                          |          |                | 24.0       | 2.70         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 28                                                  | 1.1               | 7.54     |             |                 | 22.5       | 7.60                          |          |                | 22.2       | 3.12         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 29                                                  | 1.4               | 7.46     |             |                 | 22.9       | 7.75                          |          |                | 22.9       | 2.96         |                                     |       | 0.76 |         |      |                                                    |  |  |  |  |
| 30                                                  | 1.2               | 7.57     |             |                 | 23.5       | 7.70                          |          |                | 22.9       | 4.87         |                                     |       |      |         |      |                                                    |  |  |  |  |
| 31                                                  |                   |          |             |                 |            |                               |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |
| 1 of Samp.                                          | 30.0              | 30.0     | 4.0         | 4.0             | 30.0       | 30.0                          | 4.0      | 4.0            | 30.0       | 30.0         | 4.0                                 |       |      |         |      |                                                    |  |  |  |  |
| 4 of Samp.                                          | 42.8              |          | 1276.7      | 899.0           | 715.2      | 224.1                         | 10.1     | 27.0           | 717.5      | 113.5        | 110.0                               |       | 2.62 |         |      |                                                    |  |  |  |  |
| Monthly Avg.                                        | 1.4               |          | 319.2       | 224.8           |            |                               | 2.5      | 6.8            |            |              | 27.5                                |       |      |         |      |                                                    |  |  |  |  |
| Daily Max.                                          | 2.1               | 8.4      | 870.0       | 393.0           | 26.7       | 7.8                           | 3.1      | 8.0            | 26.8       | 5.2          | 60.0                                |       |      |         |      |                                                    |  |  |  |  |
| Daily Min.                                          |                   | 7.1      |             |                 | 20.7       | 7.1                           |          |                | 21.3       | 2.0          | 12.0                                |       |      |         |      |                                                    |  |  |  |  |
| 1x 7/Avg.                                           |                   |          |             |                 |            |                               |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |
| NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM |                   |          |             |                 |            |                               |          |                |            |              |                                     |       |      |         |      |                                                    |  |  |  |  |





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                   | COUNTY/REGION           |      |         |      |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|-------------------|-------------------------|------|---------|------|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                   | SPRINGFIELD             |      |         |      |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                   | TYPE TREATMENT FACILITY |      |         |      |  |  |
| July-14          |                   |          |             |                 |            | MO# 0104906   |          |                |            |              |                   | OXI-DATION DITCH        |      |         |      |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                   |                         |      |         |      |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | OTHER                   | RAIN | WEATHER | TIME |  |  |
| 1                | 1.0               | 7.64     |             |                 | 25.5       | 7.59          |          |                | 26.4       | 4.20         |                   |                         |      |         |      |  |  |
| 2                | 1.5               | 7.50     | 521.0       | 353.0           | 24.0       | 7.77          | 2.0      | 5.0            | 23.3       | 5.80         | 24.0              |                         |      |         |      |  |  |
| 3                | 1.0               | 7.60     |             |                 | 23.4       | 7.73          |          |                | 25.0       | 2.20         |                   |                         |      |         |      |  |  |
| 4                | 1.1               | 7.70     |             |                 | 21.4       | 7.66          |          |                | 23.0       | 2.51         |                   |                         |      |         |      |  |  |
| 5                | 1.0               | 7.68     |             |                 | 21.5       | 7.59          |          |                | 24.0       | 1.85         |                   |                         |      |         |      |  |  |
| 6                | 0.8               | 7.61     |             |                 | 21.7       | 7.53          |          |                | 23.8       | 2.02         |                   |                         |      |         |      |  |  |
| 7                | 1.2               | 7.63     |             |                 | 25.4       | 7.50          |          |                | 25.5       | 1.94         |                   |                         |      |         |      |  |  |
| 8                | 1.0               | 7.55     |             |                 | 23.0       | 7.60          |          |                | 25.4       | 2.47         |                   |                         |      |         |      |  |  |
| 9                | 1.0               | 7.57     | 184.0       | 303.0           | 26.0       | 7.66          | 2.0      | 6.0            | 25.5       | 2.62         | 20.0              |                         |      |         |      |  |  |
| 10               | 1.4               | 7.56     |             |                 | 24.2       | 7.76          |          |                | 25.0       | 1.65         |                   |                         |      |         |      |  |  |
| 11               | 0.8               | 7.61     |             |                 | 25.5       | 7.65          |          |                | 26.2       | 3.26         |                   |                         |      |         |      |  |  |
| 12               | 1.3               | 7.54     |             |                 | 27.0       | 7.68          |          |                | 26.8       | 1.90         |                   |                         |      |         |      |  |  |
| 13               | 1.1               | 7.48     |             |                 | 27.2       | 7.57          |          |                | 26.8       | 3.92         |                   |                         |      |         |      |  |  |
| 14               | 1.0               | 7.29     |             |                 | 22.5       | 7.44          |          |                | 24.2       | 4.14         |                   |                         |      |         |      |  |  |
| 15               | 1.0               | 7.90     |             |                 | 23.4       | 7.50          |          |                | 25.0       | 3.30         |                   |                         |      |         |      |  |  |
| 16               | 0.7               | 7.60     | 666.0       | 640.0           | 23.7       | 7.80          | 2.0      | 6.0            | 24.0       | 3.05         | 8.0               |                         |      |         |      |  |  |
| 17               | 1.2               | 7.88     |             |                 | 23.5       | 7.78          |          |                | 24.0       | 1.50         |                   |                         |      |         |      |  |  |
| 18               | 1.0               | 7.60     |             |                 | 23.0       | 7.85          |          |                | 24.0       | 3.52         |                   |                         |      |         |      |  |  |
| 19               | 0.9               | 7.71     |             |                 | 22.1       | 7.85          |          |                | 22.8       | 5.17         |                   |                         |      |         |      |  |  |
| 20               | 1.7               | 7.86     |             |                 | 21.9       | 7.79          |          |                | 22.9       | 3.71         |                   |                         |      |         |      |  |  |
| 21               | 0.5               | 7.88     |             |                 | 25.8       | 7.81          |          |                | 25.0       | 2.13         |                   |                         |      |         |      |  |  |
| 22               | 2.2               | 8.08     |             |                 | 27.4       | 7.78          |          |                | 27.0       | 1.80         |                   |                         |      |         |      |  |  |
| 23               | 1.7               | 7.52     | 247.0       | 528.0           | 26.8       | 7.83          | 4.1      | 5.0            | 25.8       | 2.10         | 14.0              |                         |      |         |      |  |  |
| 24               | 1.0               | 7.64     |             |                 | 25.0       | 7.88          |          |                | 25.6       | 1.32         |                   |                         |      |         |      |  |  |
| 25               | 1.0               | 9.03     |             |                 | 24.1       | 7.98          |          |                | 25.0       | 5.50         |                   |                         |      |         |      |  |  |
| 26               | 1.2               | 7.73     |             |                 | 23.3       | 7.91          |          |                | 24.1       | 1.21         |                   |                         |      |         |      |  |  |
| 27               | 1.0               | 7.93     |             |                 | 24.3       | 7.82          |          |                | 24.7       | 1.22         |                   |                         |      |         |      |  |  |
| 28               | 1.0               | 7.48     |             |                 | 24.4       | 7.83          |          |                | 23.7       | 6.07         |                   |                         |      |         |      |  |  |
| 29               | 1.0               | 7.50     |             |                 | 24.0       | 7.79          |          |                | 25.0       | 2.42         |                   |                         |      |         |      |  |  |
| 30               | 1.0               | 7.47     | 524.0       | 1250.0          | 21.6       | 7.85          | 12.0     | 12.0           | 22.5       | 1.27         | 8.0               |                         |      |         |      |  |  |
| 31               | 3.6               | 7.50     |             |                 | 23.5       | 7.83          |          |                | 24.4       | 1.18         |                   |                         |      |         |      |  |  |
| No. of Samp.     | 30.0              | 31.0     | 5.0         | 5.0             | 31.0       | 31.0          | 5.0      | 5.0            | 31.0       | 31.0         | 5.0               |                         |      |         |      |  |  |
| Tot of Samp.     | 35.9              |          | 2142.0      | 3074.0          | 746.1      | 239.6         | 22.1     | 34.0           | 766.4      | 87.0         | 74.0              |                         |      |         |      |  |  |
| Monthly Avg.     | 1.2               |          | 428.4       | 614.8           |            |               | 4.4      | 6.8            |            |              | 14.8              |                         |      |         |      |  |  |
| Daily Max.       | 3.6               | 9.0      | 666.0       | 1250.0          | 27.4       | 8.0           | 12.0     | 12.0           | 27.0       | 6.1          | 24.0              |                         |      |         |      |  |  |
| Daily Min.       |                   | 7.3      |             |                 | 21.4       | 7.4           |          |                | 22.5       | 1.2          | 8.0               |                         |      |         |      |  |  |
| Max 7/Avg.       |                   |          |             |                 |            |               |          |                |            |              |                   |                         |      |         |      |  |  |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                   | COUNTY/REGION           |      |         |      |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|-------------------|-------------------------|------|---------|------|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                   | SPRINGFIELD             |      |         |      |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                   | TYPE TREATMENT FACILITY |      |         |      |  |  |
| September-13     |                   |          |             |                 |            | MO# 0104906   |          |                |            |              |                   | OXI-DATION DITCH        |      |         |      |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                   |                         |      |         |      |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-Coli<br>Col/100 | OTHER                   | RAIN | WEATHER | TIME |  |  |
| 1                | 1.7               | 7.34     |             |                 | 23.4       | 7.16          |          |                | 25.4       | 4.97         |                   |                         | 0.10 |         |      |  |  |
| 2                | 1.7               | 7.33     |             |                 | 22.6       | 7.28          |          |                | 22.8       | 5.16         |                   |                         |      |         |      |  |  |
| 3                | 1.2               | 7.20     |             |                 | 24.7       | 7.27          |          |                | 25.0       | 4.40         |                   |                         |      |         |      |  |  |
| 4                | 1.7               | 7.20     | 77.7        | 116.0           | 26.2       | 7.50          | 2.0      | 7.0            | 25.0       | 4.70         | 15.0              |                         |      |         |      |  |  |
| 5                | 1.4               | 7.28     |             |                 | 26.7       | 7.36          |          |                | 22.9       | 4.86         |                   |                         |      |         |      |  |  |
| 6                | 1.5               | 7.44     |             |                 | 22.8       | 7.40          |          |                | 23.1       | 4.44         |                   |                         |      |         |      |  |  |
| 7                | 1.1               | 7.33     |             |                 | 22.7       | 7.59          |          |                | 23.7       | 3.59         |                   |                         |      |         |      |  |  |
| 8                | 1.2               | 7.34     |             |                 | 23.2       | 7.32          |          |                | 24.5       | 3.33         |                   |                         |      |         |      |  |  |
| 9                | 2.0               | 7.36     |             |                 | 23.1       | 7.31          |          |                | 24.3       | 3.55         |                   |                         |      |         |      |  |  |
| 10               | 2.0               | 7.41     |             |                 | 24.8       | 7.36          |          |                | 25.1       | 3.66         |                   |                         |      |         |      |  |  |
| 11               | 1.6               | 7.27     | 140.0       | 125.0           | 25.6       | 7.23          | 3.0      | 8.0            | 26.6       | 3.00         | 60.0              |                         |      |         |      |  |  |
| 12               | 1.2               | 7.20     |             |                 | 25.5       | 7.13          |          |                | 26.8       | 2.00         |                   |                         |      |         |      |  |  |
| 13               | 1.2               | 7.24     |             |                 | 25.4       | 7.27          |          |                | 25.3       | 3.05         |                   |                         |      |         |      |  |  |
| 14               | 1.0               | 7.48     |             |                 | 23.5       | 7.10          |          |                | 23.1       | 3.62         |                   |                         |      |         |      |  |  |
| 15               | 1.1               | 7.33     |             |                 | 23.6       | 7.26          |          |                | 23.0       | 3.60         |                   |                         |      |         |      |  |  |
| 16               | 1.2               | 7.14     |             |                 | 24.0       | 7.15          |          |                | 24.0       | 3.72         |                   |                         | 0.27 |         |      |  |  |
| 17               | 1.2               | 7.75     |             |                 | 24.0       | 7.60          |          |                | 24.3       | 3.02         |                   |                         | 0.07 |         |      |  |  |
| 18               | 1.5               | 7.65     | 189.0       | 265.0           | 25.3       | 7.62          | 3.1      | 7.0            | 25.5       | 5.08         | 23.0              |                         |      |         |      |  |  |
| 19               | 1.2               | 7.46     |             |                 | 25.8       | 7.54          |          |                | 26.0       | 5.02         |                   |                         |      |         |      |  |  |
| 20               | 1.5               | 7.59     |             |                 | 22.6       | 7.76          |          |                | 23.5       | 3.00         |                   |                         | 1.42 |         |      |  |  |
| 21               | 1.4               | 7.70     |             |                 | 20.7       | 7.73          |          |                | 21.6       | 3.05         |                   |                         |      |         |      |  |  |
| 22               | 1.3               | 7.73     |             |                 | 21.1       | 7.78          |          |                | 21.3       | 3.37         |                   |                         |      |         |      |  |  |
| 23               | 1.3               | 7.63     | 870.0       | 393.0           | 22.8       | 7.64          | 2.0      | 5.0            | 22.0       | 4.26         | 12.0              |                         |      |         |      |  |  |
| 24               | 2.1               | 7.48     |             |                 | 23.8       | 7.52          |          |                | 23.0       | 4.08         |                   |                         |      |         |      |  |  |
| 25               | 1.5               | 7.42     |             |                 | 24.0       | 7.56          |          |                | 24.0       | 4.18         |                   |                         |      |         |      |  |  |
| 26               | 2.1               | 7.83     |             |                 | 23.9       | 7.81          |          |                | 23.7       | 3.15         |                   |                         |      |         |      |  |  |
| 27               | 1.2               | 8.44     |             |                 | 24.5       | 7.77          |          |                | 24.0       | 2.70         |                   |                         |      |         |      |  |  |
| 28               | 1.1               | 7.54     |             |                 | 22.5       | 7.60          |          |                | 22.2       | 3.12         |                   |                         |      |         |      |  |  |
| 29               | 1.4               | 7.46     |             |                 | 22.9       | 7.75          |          |                | 22.9       | 2.96         |                   |                         | 0.76 |         |      |  |  |
| 30               | 1.2               | 7.57     |             |                 | 23.5       | 7.70          |          |                | 22.9       | 4.87         |                   |                         |      |         |      |  |  |
| 31               |                   |          |             |                 |            |               |          |                |            |              |                   |                         |      |         |      |  |  |
| 10. of Samp.     | 30.0              | 30.0     | 4.0         | 4.0             | 30.0       | 30.0          | 4.0      | 4.0            | 30.0       | 30.0         | 4.0               |                         |      |         |      |  |  |
| ot of Samp.      | 42.8              |          | 1276.7      | 899.0           | 715.2      | 224.1         | 10.1     | 27.0           | 717.5      | 113.5        | 110.0             |                         | 2.62 |         |      |  |  |
| ionthly Avg.     | 1.4               |          | 319.2       | 224.8           |            |               | 2.5      | 6.8            |            |              | 27.5              |                         |      |         |      |  |  |
| aily Max.        | 2.1               | 8.4      | 870.0       | 393.0           | 26.7       | 7.8           | 3.1      | 8.0            | 26.8       | 5.2          | 60.0              |                         |      |         |      |  |  |
| aily Min.        |                   | 7.1      |             |                 | 20.7       | 7.1           |          |                | 21.3       | 2.0          | 12.0              |                         |      |         |      |  |  |
| lax 7/Avg.       |                   |          |             |                 |            |               |          |                |            |              |                   |                         |      |         |      |  |  |

NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

7 780-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM  
MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY<br>SHOAL CREEK WWTP |                   |                        |             |                              |            | CITY<br>NEOSHO  |          |                |            |                                             |                   | COUNTY/REGION<br>SPRINGFIELD |      |         |      |
|--------------------------------------|-------------------|------------------------|-------------|------------------------------|------------|-----------------|----------|----------------|------------|---------------------------------------------|-------------------|------------------------------|------|---------|------|
| FOR THE MONTH OF<br>July-15          |                   | OUTFALL NUMBER<br>#001 |             | PERMIT NUMBER<br>MO# 0104906 |            |                 |          |                |            | TYPE TREATMENT FACILITY<br>OXI-DATION DITCH |                   |                              |      |         |      |
| INFLUENT                             |                   |                        |             |                              |            | In-house E-COLI |          |                |            |                                             |                   |                              |      |         |      |
| DAY                                  | FLOW:<br>MGD EFF. | PH UNITS               | BOD<br>mg/L | SUSP.<br>SOLIDS              | TEMP<br>°C | PH UNITS        | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l                                | E-COLI<br>Col/100 | OTHER                        | RAIN | WEATHER | TIME |
| 1                                    | 3.0               | 7.25                   | 334.0       | 188.0                        | 27.3       | 7.58            | 58.6     | 51.0           | 24.3       | 2.57                                        | 125.0             |                              | Ø    |         |      |
| 2                                    | 1.5               | 7.32                   |             |                              | 27.0       | 7.73            |          |                | 25.2       | 3.00                                        |                   |                              | .10  |         |      |
| 3                                    | 1.5               | 7.50                   |             |                              | 26.9       | 7.42            |          |                | 25.4       | 3.03                                        |                   |                              | Ø    |         |      |
| 4                                    | 1.3               | 7.22                   |             |                              | 22.6       | 7.52            |          |                | 22.7       | 3.05                                        |                   |                              | Ø    |         |      |
| 5                                    | 1.5               | 7.20                   |             |                              | 21.9       | 7.54            |          |                | 23.6       | 3.02                                        |                   |                              | Ø    |         |      |
| 6                                    | 1.4               | 7.37                   |             |                              | 24.6       | 7.61            |          |                | 24.8       | 3.12                                        |                   |                              | .72  |         |      |
| 7                                    | 1.8               | 7.28                   |             |                              | 21.6       | 7.60            |          |                | 22.9       | 3.10                                        |                   |                              | .33  |         |      |
| 8                                    | 0.6               | 7.32                   | 293.0       | 213.0                        | 21.4       | 7.23            | 28.0     | 41.0           | 22.3       | 2.89                                        | 32.0              |                              | 1.70 |         |      |
| 9                                    | 2.9               | 7.28                   |             |                              | 21.0       | 7.47            |          |                | 22.2       | 4.32                                        |                   |                              | .71  |         |      |
| 10                                   | 5.3               | 7.22                   |             |                              | 21.5       | 7.26            |          |                | 22.4       | 4.14                                        |                   |                              | 2.66 |         |      |
| 11                                   | 6.9               | 7.10                   |             |                              | 20.7       | 7.11            |          |                | 22.4       | 4.60                                        |                   |                              | Ø    |         |      |
| 12                                   | 4.5               | 7.17                   |             |                              | 20.8       | 7.22            |          |                | 23.8       | 4.10                                        |                   |                              | Ø    |         |      |
| 13                                   | 3.1               | 7.32                   |             |                              | 28.7       | 7.51            |          |                | 25.0       | 4.10                                        |                   |                              | Ø    |         |      |
| 14                                   | 2.8               | 7.28                   |             |                              | 24.5       | 7.61            |          |                | 25.0       | 3.30                                        |                   |                              | Ø    |         |      |
| 15                                   | 3.3               | 7.34                   | 115.0       | 157.0                        | 25.1       | 7.55            | 2.0      | 5.0            | 25.5       | 3.22                                        | 104.0             |                              | Ø    |         |      |
| 16                                   | 1.8               | 7.35                   |             |                              | 30.7       | 7.62            |          |                | 26.1       | 3.14                                        |                   |                              | Ø    |         |      |
| 17                                   | 2.0               | 7.32                   |             |                              | 28.5       | 7.75            |          |                | 25.6       | 7.07                                        |                   |                              | Ø    |         |      |
| 18                                   | 1.6               | 7.35                   |             |                              | 30.1       | 7.70            |          |                | 26.5       | 6.90                                        |                   |                              | Ø    |         |      |
| 19                                   | 1.7               | 7.30                   |             |                              | 30.5       | 7.65            |          |                | 25.9       | 6.50                                        |                   |                              | Ø    |         |      |
| 20                                   | 1.8               | 7.30                   |             |                              | 26.7       | 7.73            |          |                | 26.4       | 3.57                                        |                   |                              | Ø    |         |      |
| 21                                   | 2.0               | 7.25                   |             |                              | 24.8       | 7.57            |          |                | 25.4       | 5.22                                        |                   |                              | .23  |         |      |
| 22                                   | 1.6               | 7.32                   | 301.0       | 417.0                        | 27.0       | 7.47            | 3.5      | 8.0            | 25.4       | 4.50                                        | 112.0             |                              | .57  |         |      |
| 23                                   | 1.7               | 7.33                   |             |                              | 26.4       | 7.56            |          |                | 26.0       | 4.90                                        |                   |                              | Ø    |         |      |
| 24                                   | 1.6               | 7.25                   |             |                              | 28.5       | 7.55            |          |                | 27.4       | 3.72                                        |                   |                              | Ø    |         |      |
| 25                                   | 1.3               | 7.28                   |             |                              | 27.7       | 7.45            |          |                | 26.6       | 2.63                                        |                   |                              | Ø    |         |      |
| 26                                   | 1.5               | 7.22                   |             |                              | 24.2       | 7.51            |          |                | 24.9       | 3.94                                        |                   |                              | Ø    |         |      |
| 27                                   | 1.5               | 7.40                   |             |                              | 26.0       | 7.60            |          |                | 27.6       | 4.03                                        |                   |                              | Ø    |         |      |
| 28                                   | 1.6               | 7.75                   | 331.0       | 820.0                        | 26.8       | 7.57            | 3.4      | 5.0            | 27.7       | 5.56                                        | 20.0              |                              | Ø    |         |      |
| 29                                   | 2.9               | 7.67                   |             |                              | 27.4       | 7.42            |          |                | 28.0       | 5.88                                        |                   |                              | Ø    |         |      |
| 30                                   | 2.5               | 7.32                   |             |                              | 25.6       | 7.57            |          |                | 25.4       | 3.61                                        |                   |                              | Ø    |         |      |
| 31                                   | 2.3               | 7.45                   |             |                              | 24.4       | 7.55            |          |                | 25.4       | 3.50                                        |                   |                              | Ø    |         |      |
| No. of Samp.                         | 31.0              | 31.0                   | 5.0         | 5.0                          | 31.0       | 31.0            | 5.0      | 5.0            | 31.0       | 31.0                                        | 5.0               |                              |      |         |      |
| Tot of Samp.                         | 70.8              |                        | 1374.0      | 1795.0                       | 790.9      | 233.2           | 95.5     | 110.0          | 777.8      | 126.2                                       | 393.0             |                              |      |         |      |
| Monthly Avg.                         | 2.3               |                        | 274.8       | 359.0                        |            |                 | 19.1     | 22.0           |            |                                             | 78.6              |                              |      |         |      |
| Daily Max.                           | 6.9               | 7.8                    | 334.0       | 820.0                        | 30.7       | 7.8             | 58.6     | 51.0           | 28.0       | 7.1                                         | 125.0             |                              |      |         |      |
| Daily Min.                           |                   | 7.1                    |             |                              | 20.7       | 7.1             |          |                | 22.2       | 2.6                                         | 20.0              |                              |      |         |      |
| Max 7/Avg.                           |                   |                        |             |                              |            |                 |          |                |            |                                             |                   |                              |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

MO 790-1306 (8-03)





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

|                                             |                   |          |                               |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |
|---------------------------------------------|-------------------|----------|-------------------------------|-----------------|------------|-------------------------------------|----------|----------------|------------|--------------|-------------------|----------------------------------------------------|------|---------|------|
| NAME OF FACILITY<br><b>SHOAL CREEK WWTP</b> |                   |          |                               |                 |            | CITY<br><b>NEOSHO</b>               |          |                |            |              |                   | COUNTY/REGION<br><b>SPRINGFIELD</b>                |      |         |      |
| FOR THE MONTH OF<br><b>JANUARY-014</b>      |                   |          | OUTFALL NUMBER<br><b>#001</b> |                 |            | PERMIT NUMBER<br><b>MO# 0104906</b> |          |                |            |              |                   | TYPE TREATMENT FACILITY<br><b>OXI-DATION DITCH</b> |      |         |      |
| INFLUENT                                    |                   |          |                               |                 |            | EFFLUENT                            |          |                |            |              |                   |                                                    |      |         |      |
| DAY                                         | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L                   | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS                            | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | E-COLI<br>Col/100 | inches snow                                        | RAIN | WEATHER | TIME |
| 1                                           | 1.4               | 7.47     |                               |                 | 15.5       | 7.33                                |          |                | 14.5       | 5.38         |                   |                                                    |      |         |      |
| 2                                           | 1.0               | 8.10     |                               |                 | 8.8        | 7.38                                |          |                | 9.4        | 6.70         |                   | 1.0                                                | 0.1  |         |      |
| 3                                           | 1.1               | 7.60     | 302.0                         | 244.0           | 11.3       | 7.39                                | 5.8      | 8.0            | 11.6       | 3.10         | n/a               |                                                    |      |         |      |
| 4                                           | 1.4               | 7.36     |                               |                 | 10.8       | 7.45                                |          |                | 9.8        | 6.42         |                   |                                                    |      |         |      |
| 5                                           | 1.4               | 6.90     |                               |                 | 8.0        | 7.33                                |          |                | 6.8        | 6.62         |                   | 4.5                                                | 0.47 |         |      |
| 6                                           | 1.3               | 7.65     |                               |                 | 9.3        | 7.52                                |          |                | 9.3        | 6.42         |                   | 1.5                                                |      |         |      |
| 7                                           | 2.5               | 7.90     |                               |                 | 10.9       | 7.58                                |          |                | 8.4        | 7.58         |                   |                                                    |      |         |      |
| 8                                           | 1.0               | 7.92     |                               |                 | 9.2        | 7.44                                |          |                | 8.3        | 6.05         |                   |                                                    |      |         |      |
| 9                                           | 1.0               | 7.98     |                               |                 | 11.5       | 7.31                                |          |                | 11.0       | 6.10         |                   |                                                    |      |         |      |
| 10                                          | 1.0               | 7.42     | 134.0                         | 90.0            | 13.5       | 7.35                                | 15.2     | 18.0           | 15.5       | 4.38         | n/a               |                                                    |      |         |      |
| 11                                          | 2.2               | 7.62     |                               |                 | 11.3       | 7.32                                |          |                | 10.0       | 6.53         |                   |                                                    | 0.23 |         |      |
| 12                                          | 2.2               | 7.65     |                               |                 | 11.8       | 7.31                                |          |                | 11.2       | 5.44         |                   |                                                    |      |         |      |
| 13                                          | 1.0               | 7.63     |                               |                 | 14.0       | 7.42                                |          |                | 12.0       | 4.88         |                   |                                                    |      |         |      |
| 14                                          | 1.4               | 7.64     |                               |                 | 13.6       | 7.44                                |          |                | 11.8       | 8.18         |                   |                                                    |      |         |      |
| 15                                          | 2.7               | 7.81     | 192.0                         | 226.0           | 13.4       | 7.50                                | 4.4      | 5.0            | 12.1       | 5.90         | n/a               |                                                    |      |         |      |
| 16                                          | 1.2               | 7.79     |                               |                 | 13.3       | 7.44                                |          |                | 11.7       | 6.65         |                   |                                                    |      |         |      |
| 17                                          | 1.0               | 7.48     |                               |                 | 12.8       | 7.39                                |          |                | 10.9       | 6.23         |                   |                                                    |      |         |      |
| 18                                          | 1.2               | 7.62     |                               |                 | 10.1       | 7.31                                |          |                | 9.8        | 6.92         |                   |                                                    |      |         |      |
| 19                                          | 1.2               | 7.71     |                               |                 | 9.4        | 7.48                                |          |                | 9.2        | 6.71         |                   |                                                    |      |         |      |
| 20                                          | 1.0               | 7.64     |                               |                 | 10.3       | 7.39                                |          |                | 10.9       | 5.94         |                   |                                                    |      |         |      |
| 21                                          | 2.3               | 7.30     |                               |                 | 8.7        | 7.62                                |          |                | 9.1        | 7.56         |                   |                                                    |      |         |      |
| 22                                          | 1.8               | 7.84     | 272.0                         | 176.0           | 12.2       | 7.47                                | 9.7      | 6.0            | 10.9       | 8.28         | n/a               |                                                    |      |         |      |
| 23                                          | 1.1               | 7.73     |                               |                 | 10.6       | 7.55                                |          |                | 9.0        | 5.80         |                   |                                                    |      |         |      |
| 24                                          | 1.3               | 7.66     |                               |                 | 11.3       | 7.46                                |          |                | 9.5        | 8.95         |                   |                                                    |      |         |      |
| 25                                          | 1.0               | 7.58     |                               |                 | 14.7       | 7.27                                |          |                | 13.5       | 5.40         |                   |                                                    |      |         |      |
| 26                                          | 1.4               | 7.61     |                               |                 | 14.6       | 7.34                                |          |                | 13.2       | 5.89         |                   |                                                    |      |         |      |
| 27                                          | 1.7               | 8.52     |                               |                 | 9.3        | 7.33                                |          |                | 6.2        | 5.64         |                   |                                                    |      |         |      |
| 28                                          | 1.7               | 7.54     |                               |                 | 9.3        | 7.57                                |          |                | 9.5        | 5.66         |                   |                                                    |      |         |      |
| 29                                          | 1.2               | 7.60     | 180.0                         | 512.0           | 12.1       | 7.40                                | 9.0      | 16.0           | 9.7        | 5.50         | n/a               |                                                    |      |         |      |
| 30                                          | 2.6               | 7.68     |                               |                 | 12.9       | 7.46                                |          |                | 11.5       | 5.22         |                   |                                                    |      |         |      |
| 31                                          | 1.0               | 7.52     |                               |                 | 11.8       | 7.39                                |          |                | 10.9       | 4.88         |                   |                                                    |      |         |      |
| No. of Samp.                                | 31.0              | 31.0     | 5.0                           | 5.0             | 31.0       | 31.0                                | 5.0      | 5.0            | 31.0       | 31.0         | 0.0               |                                                    |      |         |      |
| Tot of Samp.                                | 45.3              |          | 1080.0                        | 1248.0          | 356.3      | 229.9                               | 44.1     | 53.0           | 327.2      | 190.9        | 0.0               |                                                    |      |         |      |
| Monthly Avg.                                | 1.5               |          | 216.0                         | 249.6           |            |                                     | 8.8      | 10.6           |            |              | #DIV/0!           |                                                    |      |         |      |
| Daily Max.                                  | 2.7               | 8.5      | 302.0                         | 512.0           | 15.5       | 7.6                                 | 15.2     | 18.0           | 15.5       | 9.0          | 0.0               |                                                    |      |         |      |
| Daily Min.                                  |                   | 6.9      |                               |                 | 8.0        | 7.3                                 |          |                | 6.2        | 3.1          | 0.0               |                                                    |      |         |      |
| Max 7/Avg.                                  |                   |          |                               |                 |            |                                     |          |                |            |              |                   |                                                    |      |         |      |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD FOR WASTEWATER TREATMENT FACILITIES

| NAME OF FACILITY |                   |          |             |                 |            | CITY          |          |                |            |              |                  | COUNTY/REGION           |         |      |  |  |  |
|------------------|-------------------|----------|-------------|-----------------|------------|---------------|----------|----------------|------------|--------------|------------------|-------------------------|---------|------|--|--|--|
| SHOAL CREEK WWTP |                   |          |             |                 |            | NEOSHO        |          |                |            |              |                  | SPRINGFIELD             |         |      |  |  |  |
| FOR THE MONTH OF |                   |          |             |                 |            | PERMIT NUMBER |          |                |            |              |                  | TYPE TREATMENT FACILITY |         |      |  |  |  |
| February-13      |                   |          |             |                 |            | MO# 0104906   |          |                |            |              |                  | OXI-DATION DITCH        |         |      |  |  |  |
| INFLUENT         |                   |          |             |                 |            | EFFLUENT      |          |                |            |              |                  |                         |         |      |  |  |  |
| DAY              | FLOW:<br>MGD EFF. | PH UNITS | BOD<br>mg/L | SUSP.<br>SOLIDS | TEMP<br>°C | PH UNITS      | BOD mg/L | SUS.<br>SOLIDS | Temp<br>°C | D.O.<br>Mg/l | Fecal<br>Col/100 | RAIN                    | WEATHER | TIME |  |  |  |
| 1                | 2.6               | 7.67     |             |                 | 11.4       | 7.34          |          |                | 11.6       | 3.20         |                  | .3                      | .03     |      |  |  |  |
| 2                | 1.4               | 7.57     |             |                 | 11.3       | 7.38          |          |                | 11.5       | 5.70         |                  |                         |         |      |  |  |  |
| 3                | 1.6               | 7.66     |             |                 | 10.5       | 7.60          |          |                | 11.4       | 4.17         |                  |                         |         |      |  |  |  |
| 4                | 1.8               | 7.56     |             |                 | 16.0       | 7.39          |          |                | 13.0       | 2.75         |                  | .06                     |         |      |  |  |  |
| 5                | 1.7               | 7.90     |             |                 | 15.5       | 7.40          |          |                | 13.3       | 5.33         |                  |                         |         |      |  |  |  |
| 6                | 1.8               | 7.1      | 266.0       | 174.0           | 15.0       | 7.47          | 4.0      | 5.0            | 15.0       | 2.60         |                  |                         |         |      |  |  |  |
| 7                | 1.8               | 7.69     |             |                 | 14.6       | 7.10          |          |                | 14.0       | 2.80         |                  |                         |         |      |  |  |  |
| 8                | 1.8               | 7.68     |             |                 | 15.7       | 6.98          |          |                | 13.3       | 2.55         |                  | .32                     |         |      |  |  |  |
| 9                | 1.0               | 7.21     |             |                 | 12.2       | 7.44          |          |                | 14.1       | 5.53         |                  |                         |         |      |  |  |  |
| 10               | 1.4               | 7.45     |             |                 | 15.3       | 7.11          |          |                | 14.5       | 3.63         |                  | .40                     |         |      |  |  |  |
| 11               | 2.1               | 7.37     |             |                 | 14.6       | 7.14          |          |                | 13.0       | 2.85         |                  |                         |         |      |  |  |  |
| 12               | 1.7               | 7.76     |             |                 | 13.0       | 7.22          |          |                | 11.5       | 4.33         |                  |                         |         |      |  |  |  |
| 13               | 1.2               | 7.50     |             |                 | 14.2       | 7.00          |          |                | 11.8       | 3.38         |                  | 1.0                     | .31     |      |  |  |  |
| 14               | 1.9               | 8.55     | 157.0       | 168.0           | 15.4       | 7.16          | 12.5     | 9.0            | 12.7       | 4.08         |                  |                         |         |      |  |  |  |
| 15               | 1.9               | 7.63     |             |                 | 12.7       | 7.27          |          |                | 11.0       | 3.30         |                  |                         |         |      |  |  |  |
| 16               | 1.0               | 7.58     |             |                 | 11.5       | 7.21          |          |                | 13.0       | 3.56         |                  | .02                     |         |      |  |  |  |
| 17               | 1.4               | 7.53     |             |                 | 11.8       | 7.17          |          |                | 11.0       | 4.17         |                  |                         |         |      |  |  |  |
| 18               | 1.7               | 8.20     |             |                 | 13.3       | 7.30          |          |                | 13.0       | 3.52         |                  |                         |         |      |  |  |  |
| 19               | 1.3               | 7.91     |             |                 | 12.2       | 7.67          |          |                | 13.6       | 3.43         |                  | .01                     |         |      |  |  |  |
| 20               | 1.4               | 7.94     | 348.0       | 160.0           | 7.0        | 7.69          | 4.4      | 5.0            | 9.9        | 2.50         |                  |                         |         |      |  |  |  |
| 21               | 2.0               | 7.88     |             |                 | 11.3       | 7.60          |          |                | 10.0       | 2.38         |                  | .30                     |         |      |  |  |  |
| 22               | 1.9               | 7.95     |             |                 | 11.4       | 7.65          |          |                | 11.0       | 2.78         |                  | .63                     |         |      |  |  |  |
| 23               | 1.8               | 7.88     |             |                 | 10.2       | 7.75          |          |                | 10.5       | 3.72         |                  |                         |         |      |  |  |  |
| 24               | 1.8               | 7.92     |             |                 | 10.0       | 7.59          |          |                | 9.7        | 7.96         |                  |                         |         |      |  |  |  |
| 25               | 2.2               | 8.47     |             |                 | 10.0       | 7.66          |          |                | 10.0       | 5.25         |                  |                         |         |      |  |  |  |
| 26               | 2.2               | 8.07     |             |                 | 10.5       | 7.39          |          |                | 9.5        | 2.83         |                  | 4.0                     | .81     |      |  |  |  |
| 27               | 3.0               | 7.88     |             |                 | 10.1       | 7.46          |          |                | 9.3        | 2.35         |                  | .01                     |         |      |  |  |  |
| 28               | 2.5               | 8.11     | 181.0       | 124.0           | 10.8       | 7.48          | 8.6      | 5.0            | 10.2       | 4.07         |                  |                         |         |      |  |  |  |
| 29               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |
| 30               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |
| 31               |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |
| No. of Samp.     | 28.0              | 28.0     | 4.0         | 4.0             | 28.0       | 28.0          | 4.0      | 4.0            | 28.0       | 28.0         | 0.0              |                         |         |      |  |  |  |
| Tot of Samp.     | 49.9              |          | 952.0       | 626.0           | 347.5      | 206.6         | 29.5     | 24.0           | 332.4      | 104.7        | 0.0              |                         |         |      |  |  |  |
| Monthly Avg.     | 1.8               |          | 238.0       | 156.5           |            |               | 7.4      | 6.0            |            |              | #DIV/0!          |                         |         |      |  |  |  |
| Daily Max.       | 3.0               | 8.6      | 348.0       | 174.0           | 16.0       | 7.8           | 12.5     | 9.0            | 15.0       | 8.0          | 0.0              |                         |         |      |  |  |  |
| Daily Min.       |                   | 7.1      |             |                 | 7.0        | 7.0           |          |                | 9.3        | 2.4          | 0.0              |                         |         |      |  |  |  |
| Max 7/Avg.       |                   |          |             |                 |            |               |          |                |            |              |                  |                         |         |      |  |  |  |

\* NOTE: SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM



## ANALYTICAL RESULTS

Project: Shoal  
Pace Project No.: 60204461

|                         |         |                     |       |                           |    |                          |          |               |      |
|-------------------------|---------|---------------------|-------|---------------------------|----|--------------------------|----------|---------------|------|
| Sample: SHOAL -EFFLUENT |         | Lab ID: 60204461001 |       | Collected: 10/07/15 08:45 |    | Received: 10/07/15 14:15 |          | Matrix: Water |      |
|                         |         |                     |       | Report                    |    |                          |          |               |      |
| Parameters              | Results | Units               | Limit | MDL                       | DF | Prepared                 | Analyzed | CAS No.       | Qual |

**MBIO 9223B E.Coli** Analytical Method: SM 9223B Colilert Preparation Method: SM 9223B Colilert  
Escherichia coli (E.coli) **155** MPN/100 mL 1.0 1.0 1 10/07/15 14:35 10/08/15 14:40

|                              |         |                     |       |                           |    |                          |          |               |      |
|------------------------------|---------|---------------------|-------|---------------------------|----|--------------------------|----------|---------------|------|
| Sample: SHOAL-INFLUNENT (A1) |         | Lab ID: 60204461002 |       | Collected: 10/07/15 08:00 |    | Received: 10/07/15 18:30 |          | Matrix: Water |      |
|                              |         |                     |       | Report                    |    |                          |          |               |      |
| Parameters                   | Results | Units               | Limit | MDL                       | DF | Prepared                 | Analyzed | CAS No.       | Qual |

**2540D Total Suspended Solids** Analytical Method: SM 2540D  
Total Suspended Solids **410** mg/L 5.0 5.0 1 10/12/15 09:41

**5210B BOD, 5 day** Analytical Method: SM 5210B Preparation Method: SM 5210B  
BOD, 5 day **291** mg/L 2.0 2.0 1 10/08/15 11:05 10/13/15 15:29

|                             |         |                     |       |                           |    |                          |          |               |      |
|-----------------------------|---------|---------------------|-------|---------------------------|----|--------------------------|----------|---------------|------|
| Sample: SHOAL-EFFLUENT (C2) |         | Lab ID: 60204461003 |       | Collected: 10/07/15 08:45 |    | Received: 10/07/15 18:30 |          | Matrix: Water |      |
|                             |         |                     |       | Report                    |    |                          |          |               |      |
| Parameters                  | Results | Units               | Limit | MDL                       | DF | Prepared                 | Analyzed | CAS No.       | Qual |

**200.8 MET ICPMS** Analytical Method: EPA 200.8 Preparation Method: EPA 200.8  
Cadmium ND ug/L 0.50 0.082 1 10/12/15 10:35 10/16/15 17:54 7440-43-9  
Chromium **0.86J** ug/L 1.0 0.16 1 10/12/15 10:35 10/16/15 17:54 7440-47-3  
Copper **1.3** ug/L 1.0 0.21 1 10/12/15 10:35 10/16/15 17:54 7440-50-8  
Iron **91.1** ug/L 50.0 7.7 1 10/12/15 10:35 10/16/15 17:54 7439-89-6  
Lead **0.31J** ug/L 1.0 0.23 1 10/12/15 10:35 10/16/15 17:54 7439-92-1  
Nickel **1.1** ug/L 1.0 0.39 1 10/12/15 10:35 10/16/15 17:54 7440-02-0  
Selenium **0.19J** ug/L 1.0 0.12 1 10/12/15 10:35 10/16/15 17:54 7782-49-2  
Zinc **20.7** ug/L 10.0 4.5 1 10/12/15 10:35 10/16/15 17:54 7440-66-6

**245.1 Mercury** Analytical Method: EPA 245.1 Preparation Method: EPA 245.1  
Mercury ND ug/L 0.20 0.012 1 10/12/15 15:25 10/13/15 10:23 7439-97-6

**HEM, Oil and Grease** Analytical Method: EPA 1664A  
**Oil and Grease** ND mg/L 5.0 0.72 1 10/14/15 09:08

**2540D Total Suspended Solids** Analytical Method: SM 2540D  
Total Suspended Solids ND mg/L 5.0 5.0 1 10/12/15 09:42

**5210B BOD, 5 day** Analytical Method: SM 5210B Preparation Method: SM 5210B  
BOD, 5 day **12.8** mg/L 2.0 2.0 1 10/08/15 13:00 10/13/15 10:44

**Trivalent Chromium Calculation** Analytical Method: Trivalent Chromium Calculation  
Chromium, Trivalent ND mg/L 0.010 0.010 1 10/20/15 08:40 16065-83-1

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## ANALYTICAL RESULTS

Project: SHOAL 1/10/14  
Pace Project No.: 60161012

| Sample: SHOAL INFLUENT-(A1) Lab ID: 60161012001 Collected: 01/10/14 08:20 Received: 01/10/14 18:18 Matrix: Water |                                                            |       |              |    |                |                |            |      |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------|--------------|----|----------------|----------------|------------|------|
| Parameters                                                                                                       | Results                                                    | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>2540D Total Suspended Solids</b>                                                                              | Analytical Method: SM 2540D                                |       |              |    |                |                |            |      |
| Total Suspended Solids                                                                                           | 90.0                                                       | mg/L  | 5.0          | 1  |                | 01/16/14 07:49 |            |      |
| <b>5210B BOD, 5 day</b>                                                                                          | Analytical Method: SM 5210B Preparation Method: SM 5210B   |       |              |    |                |                |            |      |
| BOD, 5 day                                                                                                       | 134                                                        | mg/L  | 2.0          | 1  | 01/11/14 11:25 | 01/16/14 13:43 |            |      |
| Sample: SHOAL EFFLUENT-(C2) Lab ID: 60161012002 Collected: 01/10/14 08:30 Received: 01/10/14 18:18 Matrix: Water |                                                            |       |              |    |                |                |            |      |
| Parameters                                                                                                       | Results                                                    | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.7 Metals, Total</b>                                                                                       | Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 |       |              |    |                |                |            |      |
| Cadmium                                                                                                          | 0.30J                                                      | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-43-9  |      |
| Chromium                                                                                                         | 0.51J                                                      | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-47-3  |      |
| Copper                                                                                                           | 6.8J                                                       | ug/L  | 10.0         | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-50-8  |      |
| Iron                                                                                                             | 215                                                        | ug/L  | 50.0         | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7439-89-6  |      |
| Lead                                                                                                             | 0.0J                                                       | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7439-92-1  |      |
| Nickel                                                                                                           | 1.5J                                                       | ug/L  | 5.0          | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-02-0  |      |
| Zinc                                                                                                             | 49.6J                                                      | ug/L  | 50.0         | 1  | 01/13/14 15:30 | 01/14/14 14:16 | 7440-66-6  |      |
| <b>200.8 MET ICPMS</b>                                                                                           | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |       |              |    |                |                |            |      |
| Selenium                                                                                                         | ND                                                         | ug/L  | 1.0          | 1  | 01/13/14 15:30 | 01/14/14 11:33 | 7782-49-2  |      |
| <b>245.1 Mercury</b>                                                                                             | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 |       |              |    |                |                |            |      |
| Mercury                                                                                                          | ND                                                         | ug/L  | 0.20         | 1  | 01/14/14 09:00 | 01/14/14 12:57 | 7439-97-6  |      |
| <b>HEM, Oil and Grease</b>                                                                                       | Analytical Method: EPA 1664A                               |       |              |    |                |                |            |      |
| Oil and Grease                                                                                                   | 16.5                                                       | mg/L  | 5.0          | 1  |                | 01/24/14 08:17 |            |      |
| <b>2540D Total Suspended Solids</b>                                                                              | Analytical Method: SM 2540D                                |       |              |    |                |                |            |      |
| Total Suspended Solids                                                                                           | 18.0                                                       | mg/L  | 5.0          | 1  |                | 01/16/14 07:49 |            |      |
| <b>5210B BOD, 5 day</b>                                                                                          | Analytical Method: SM 5210B Preparation Method: SM 5210B   |       |              |    |                |                |            |      |
| BOD, 5 day                                                                                                       | 15.2                                                       | mg/L  | 2.0          | 1  | 01/11/14 11:25 | 01/16/14 13:45 |            |      |
| <b>Trivalent Chromium Calculation</b>                                                                            | Analytical Method: Trivalent Chromium Calculation          |       |              |    |                |                |            |      |
| Chromium, Trivalent                                                                                              | ND                                                         | mg/L  | 0.010        | 1  |                | 01/23/14 00:00 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b>                                                                                      | Analytical Method: SM 3500-Cr B                            |       |              |    |                |                |            |      |
| Chromium, Hexavalent                                                                                             | ND                                                         | mg/L  | 0.010        | 1  |                | 01/11/14 08:28 | 18540-29-9 |      |
| <b>350.1 Ammonia</b>                                                                                             | Analytical Method: EPA 350.1                               |       |              |    |                |                |            |      |
| Nitrogen, Ammonia                                                                                                | 0.14                                                       | mg/L  | 0.10         | 1  |                | 01/22/14 13:21 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b>                                                                              | Analytical Method: EPA 420.1                               |       |              |    |                |                |            |      |
| Phenolics, Total Recoverable                                                                                     | 0.21                                                       | mg/L  | 0.050        | 1  |                | 01/16/14 12:21 |            |      |

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## ANALYTICAL RESULTS

Project: SHOAL 1/3/13  
Pace Project No.: 60136297

| Sample: SHOAL INFLUENT (A1)      Lab ID: 60136297001      Collected: 01/03/13 07:15      Received: 01/03/13 18:20      Matrix: Water |          |       |              |          |    |                |                |            |      |
|--------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|----------|----|----------------|----------------|------------|------|
| Parameters                                                                                                                           | Results  | Units | Report Limit | MDL      | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>2540D Total Suspended Solids</b> Analytical Method: SM 2540D                                                                      |          |       |              |          |    |                |                |            |      |
| Total Suspended Solids                                                                                                               | 146      | mg/L  | 5.0          | 5.0      | 1  |                | 01/04/13 09:58 |            |      |
| <b>5210B BOD, 5 day</b> Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |          |       |              |          |    |                |                |            |      |
| BOD, 5 day                                                                                                                           | 163      | mg/L  | 2.0          | 2.0      | 1  | 01/04/13 11:25 | 01/09/13 15:44 |            |      |
| Sample: SHOAL EFFLUENT (C2)      Lab ID: 60136297002      Collected: 01/03/13 08:45      Received: 01/03/13 18:20      Matrix: Water |          |       |              |          |    |                |                |            |      |
| Parameters                                                                                                                           | Results  | Units | Report Limit | MDL      | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.7 Metals, Total</b> Analytical Method: EPA 200.7      Preparation Method: EPA 200.7                                           |          |       |              |          |    |                |                |            |      |
| Cadmium                                                                                                                              | 0.00048J | mg/L  | 0.0050       | 0.00039  | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-43-9  |      |
| Chromium                                                                                                                             | 0.00080J | mg/L  | 0.0050       | 0.00069  | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-47-3  |      |
| Copper                                                                                                                               | 0.0041J  | mg/L  | 0.010        | 0.00099  | 1  | 01/04/13 15:40 | 01/07/13 15:31 | 7440-50-8  |      |
| Iron                                                                                                                                 | 0.036J   | mg/L  | 0.050        | 0.017    | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7439-89-6  |      |
| Lead                                                                                                                                 | 0.0032J  | mg/L  | 0.0050       | 0.0024   | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7439-92-1  |      |
| Nickel                                                                                                                               | 0.00099J | mg/L  | 0.0050       | 0.00080  | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-02-0  |      |
| Selenium                                                                                                                             | ND       | mg/L  | 0.014        | 0.0027   | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7782-49-2  |      |
| Zinc                                                                                                                                 | 0.056    | mg/L  | 0.050        | 0.0073   | 1  | 01/04/13 15:40 | 01/08/13 09:10 | 7440-66-6  |      |
| <b>245.1 Mercury</b> Analytical Method: EPA 245.1      Preparation Method: EPA 245.1                                                 |          |       |              |          |    |                |                |            |      |
| Mercury                                                                                                                              | ND       | mg/L  | 0.00020      | 0.000053 | 1  | 01/09/13 13:00 | 01/10/13 10:16 | 7439-97-6  |      |
| <b>HEM, Oil and Grease</b> Analytical Method: EPA 1664A                                                                              |          |       |              |          |    |                |                |            |      |
| Oil and Grease                                                                                                                       | 0.71J    | mg/L  | 5.0          | 0.44     | 1  |                | 01/08/13 10:22 |            | B    |
| <b>2540D Total Suspended Solids</b> Analytical Method: SM 2540D                                                                      |          |       |              |          |    |                |                |            |      |
| Total Suspended Solids                                                                                                               | 10.0     | mg/L  | 5.0          | 5.0      | 1  |                | 01/04/13 09:58 |            |      |
| <b>5210B BOD, 5 day</b> Analytical Method: SM 5210B      Preparation Method: SM 5210B                                                |          |       |              |          |    |                |                |            |      |
| BOD, 5 day                                                                                                                           | 3.8      | mg/L  | 2.0          | 2.0      | 1  | 01/04/13 16:41 | 01/09/13 17:05 |            |      |
| <b>Trivalent Chromium Calculation</b> Analytical Method: Trivalent Chromium Calculation                                              |          |       |              |          |    |                |                |            |      |
| Chromium, Trivalent                                                                                                                  | ND       | mg/L  | 0.050        |          | 1  |                | 01/14/13 09:36 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b> Analytical Method: SM 3500-Cr D                                                                          |          |       |              |          |    |                |                |            |      |
| Chromium, Hexavalent                                                                                                                 | ND       | mg/L  | 0.010        | 0.0026   | 1  |                | 01/04/13 08:32 | 18540-29-9 |      |
| <b>350.1 Ammonia</b> Analytical Method: EPA 350.1                                                                                    |          |       |              |          |    |                |                |            |      |
| Nitrogen, Ammonia                                                                                                                    | 0.046J   | mg/L  | 0.10         | 0.034    | 1  |                | 01/07/13 11:15 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b> Analytical Method: EPA 420.1                                                                     |          |       |              |          |    |                |                |            |      |
| Phenolics, Total Recoverable                                                                                                         | ND       | mg/L  | 0.050        | 0.011    | 1  |                | 01/10/13 12:30 |            |      |

Date: 01/14/2013 11:57 AM

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## ANALYTICAL RESULTS

Project: SHOAL 10/2/13  
Pace Project No.: 60154547

| Sample: SHOAL INFLUENT A1           |         | Lab ID: 60154547001                                      | Collected: 10/02/13 08:30 | Received: 10/02/13 18:30 | Matrix: Water  |                |         |      |
|-------------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters                          | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No. | Qual |
| <b>2540D Total Suspended Solids</b> |         | Analytical Method: SM 2540D                              |                           |                          |                |                |         |      |
| Total Suspended Solids              | 103     | mg/L                                                     | 5.0                       | 1                        |                | 10/09/13 09:37 |         |      |
| <b>5210B BOD, 5 day</b>             |         | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |         |      |
| BOD, 5 day                          | 109     | mg/L                                                     | 2.0                       | 1                        | 10/03/13 14:42 | 10/08/13 08:08 |         |      |

| Sample: SHOAL EFFLUENT C2             |         | Lab ID: 60154547002                                        | Collected: 10/02/13 08:45 | Received: 10/02/13 18:30 | Matrix: Water  |                |            |      |
|---------------------------------------|---------|------------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                            | Results | Units                                                      | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>200.7 Metals, Total</b>            |         | Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 |                           |                          |                |                |            |      |
| Chromium                              | 2.8J    | ug/L                                                       | 5.0                       | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-47-3  |      |
| Copper                                | 5.4J    | ug/L                                                       | 10.0                      | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-50-8  |      |
| Iron                                  | 24.8J   | ug/L                                                       | 50.0                      | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7439-89-6  |      |
| Lead                                  | ND      | ug/L                                                       | 5.0                       | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7439-92-1  |      |
| Nickel                                | 2.1J    | ug/L                                                       | 5.0                       | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-02-0  |      |
| Zinc                                  | 20.0J   | ug/L                                                       | 50.0                      | 1                        | 10/04/13 10:40 | 10/07/13 11:55 | 7440-66-6  |      |
| <b>200.8 MET ICPMS</b>                |         | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 |                           |                          |                |                |            |      |
| Selenium                              | 0.24J   | ug/L                                                       | 1.0                       | 1                        | 10/03/13 17:10 | 10/08/13 19:17 | 7782-49-2  |      |
| <b>245.1 Mercury</b>                  |         | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 |                           |                          |                |                |            |      |
| Mercury                               | ND      | ug/L                                                       | 0.20                      | 1                        | 10/04/13 09:30 | 10/04/13 14:17 | 7439-97-6  |      |
| <b>HEM, Oil and Grease</b>            |         | Analytical Method: EPA 1664A                               |                           |                          |                |                |            |      |
| Oil and Grease                        | ND      | mg/L                                                       | 5.0                       | 1                        |                | 10/09/13 07:25 |            |      |
| <b>2540D Total Suspended Solids</b>   |         | Analytical Method: SM 2540D                                |                           |                          |                |                |            |      |
| Total Suspended Solids                | ND      | mg/L                                                       | 5.0                       | 1                        |                | 10/09/13 09:37 |            |      |
| <b>5210B BOD, 5 day</b>               |         | Analytical Method: SM 5210B Preparation Method: SM 5210B   |                           |                          |                |                |            |      |
| BOD, 5 day                            | 2.1     | mg/L                                                       | 2.0                       | 1                        | 10/03/13 14:43 | 10/08/13 08:11 |            |      |
| <b>Trivalent Chromium Calculation</b> |         | Analytical Method: Trivalent Chromium Calculation          |                           |                          |                |                |            |      |
| Chromium, Trivalent                   | ND      | mg/L                                                       | 0.050                     | 1                        |                | 10/17/13 16:41 | 16065-83-1 |      |
| <b>Chromium, Hexavalent</b>           |         | Analytical Method: SM 3500-Cr B                            |                           |                          |                |                |            |      |
| Chromium, Hexavalent                  | ND      | mg/L                                                       | 0.010                     | 1                        |                | 10/03/13 08:32 | 18540-29-9 |      |
| <b>350.1 Ammonia</b>                  |         | Analytical Method: EPA 350.1                               |                           |                          |                |                |            |      |
| Nitrogen, Ammonia                     | ND      | mg/L                                                       | 0.10                      | 1                        |                | 10/09/13 11:53 | 7664-41-7  |      |
| <b>Phenolics, Total Recoverable</b>   |         | Analytical Method: EPA 420.1                               |                           |                          |                |                |            |      |
| Phenolics, Total Recoverable          | ND      | mg/L                                                       | 0.050                     | 1                        |                | 10/08/13 20:20 |            |      |

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## **Appendix B – Wastewater Flow and Biological Loadings**

Crowder WWTP Flows and Loads

| Date       | Flow (Estimated)*<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|--------------------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 1/3/2020   | 0.87                     | 147.0                               | 20.8                   | 1068.43                           | 151.18               |
| 1/8/2020   | 0.87                     | 214.0                               | 80.0                   | 1555.41                           | 581.46               |
| 1/15/2020  | 0.99                     | 128.0                               | 46.4                   | 1051.68                           | 381.24               |
| 1/22/2020  | 0.61                     | 37.9                                | 17.6                   | 191.63                            | 88.99                |
| 1/29/2020  | 0.76                     | 98.7                                | 55.0                   | 623.81                            | 347.61               |
| 2/5/2020   | 0.00                     | 233.0                               | 29.7                   | 0.00                              | 0.00                 |
| 2/12/2020  | 0.00                     | 147.0                               | 56.8                   | 0.00                              | 0.00                 |
| 2/19/2020  | 0.00                     | 295.0                               | 87.3                   | 0.00                              | 0.00                 |
| 2/26/202   | 0.00                     | 17.6                                | 25.5                   | 0.00                              | 0.00                 |
| 3/4/2020   | 0.91                     | 291.0                               | 104.0                  | 2207.02                           | 788.76               |
| 3/11/2020  | 0.80                     | 92.7                                | 35.3                   | 618.11                            | 235.37               |
| 3/18/2020  | 0.80                     | 73.6                                | 12.5                   | 488.43                            | 82.95                |
| 3/25/2020  | 0.87                     | 17.5                                | 13.3                   | 127.19                            | 96.67                |
| 4/1/2020   | 0.91                     | 27.3                                | 32.8                   | 207.05                            | 248.76               |
| 4/8/2020   | 1.06                     | 138.0                               | 108.0                  | 1221.07                           | 955.62               |
| 4/15/2020  | 0.80                     | 187.0                               | 264.0                  | 1240.97                           | 1751.96              |
| 4/22/2020  | 1.06                     | 243.0                               | 88.0                   | 2150.14                           | 778.65               |
| 4/29/2020  | 1.82                     | 147.0                               | 80.0                   | 2229.77                           | 1213.48              |
| 5/6/2020   | 1.14                     | 174.0                               | 108.0                  | 1649.58                           | 1023.88              |
| 5/13/2020  | 1.33                     | 101.0                               | 63.6                   | 1117.10                           | 703.44               |
| 5/20/2020  | 1.02                     | 217.0                               | 118.0                  | 1851.51                           | 1006.81              |
| 5/27/2020  | 1.86                     | 8.4                                 | 18.3                   | 130.07                            | 283.37               |
| 6/3/2020   | 1.40                     | 119.0                               | 54.0                   | 1391.40                           | 631.39               |
| 6/10/2020  | 1.21                     | 402.0                               | 199.0                  | 4065.16                           | 2012.36              |
| 6/17/2020  | 0.76                     | 215.0                               | 184.0                  | 1358.85                           | 1162.92              |
| 6/24/2020  | 0.68                     | 1200.0                              | 130.0                  | 6825.83                           | 739.47               |
| 6/30/2020  | 0.00                     | 1500.0                              | 250.0                  | 0.00                              | 0.00                 |
| 7/8/2020   | 0.72                     | 899.0                               | 420.0                  | 5397.78                           | 2521.77              |
| 7/15/2020  | 0.72                     | 320.0                               | 64.0                   | 1921.35                           | 384.27               |
| 7/22/2020  | 0.99                     | 854.0                               | 700.0                  | 7016.70                           | 5751.40              |
| 7/29/2020  | 0.72                     | 395.0                               | 101.0                  | 2371.66                           | 606.42               |
| 8/5/2020   | 0.68                     | 931.0                               | 107.0                  | 5295.71                           | 608.64               |
| 8/12/2020  | 0.68                     | 306.0                               | 55.0                   | 1740.59                           | 312.85               |
| 8/19/2020  | 0.57                     | 1690.0                              | 90.0                   | 8010.88                           | 426.61               |
| 8/26/2020  | 0.68                     | 340.0                               | 67.6                   | 1933.99                           | 384.52               |
| 9/2/2020   | 0.64                     | 378.0                               | 77.6                   | 2030.69                           | 416.88               |
| 9/9/2020   | 0.61                     | 178.0                               | 103.0                  | 900.00                            | 520.79               |
| 9/16/2020  | 0.57                     | 166.0                               | 45.0                   | 786.87                            | 213.31               |
| 9/23/2020  | 0.57                     | 473.0                               | 992.0                  | 2242.10                           | 4702.24              |
| 9/30/2020  | 0.61                     | 195.0                               | 102.0                  | 985.95                            | 515.73               |
| 10/7/2020  | 0.61                     | 160.0                               | 82.0                   | 808.99                            | 414.61               |
| 10/14/2020 | 0.64                     | 735.0                               | 545.0                  | 3948.56                           | 2927.84              |
| 10/21/2020 | 0.64                     | 577.0                               | 114.0                  | 3099.75                           | 612.43               |

| Date       | Flow (Estimated)*<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|--------------------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 10/28/2020 | 1.33                     | 75.2                                | 76.5                   | 831.74                            | 846.12               |
| 11/4/2020  | 0.87                     | 228.0                               | 48.5                   | 1657.16                           | 352.51               |
| 11/11/2020 | 1.14                     | 1400.0                              | 752.0                  | 13272.46                          | 7129.20              |
| 11/18/2020 | 0.87                     | 337.0                               | 153.0                  | 2449.40                           | 1112.04              |
| 11/25/2020 | 1.59                     | 111.0                               | 157.0                  | 1473.24                           | 2083.78              |
| 12/2/2020  | 1.21                     | 209.0                               | 77.0                   | 2113.48                           | 778.65               |
| 12/9/2020  | 0.83                     | 508.0                               | 126.0                  | 3531.74                           | 875.98               |
| 12/16/2020 | 1.02                     | 180.0                               | 67.2                   | 1535.81                           | 573.37               |
| 12/23/2020 | 0.76                     | 834.0                               | 118.0                  | 5271.06                           | 745.79               |
| 12/30/2020 | 1.21                     | 502.0                               | 673.0                  | 5076.40                           | 6805.61              |
| 1/6/2021   | 1.52                     | 19.6                                | 171.0                  | 247.75                            | 2161.51              |
| 1/13/2021  | 1.02                     | 60.9                                | 25.2                   | 519.62                            | 215.01               |
| 1/20/2021  | 1.14                     | 506.0                               | 360.0                  | 4797.04                           | 3412.92              |
| 1/27/2021  | 1.14                     | 84.2                                | 101.0                  | 798.24                            | 957.51               |
| 2/3/2021   | 0.91                     | 326.0                               | 82.0                   | 2472.47                           | 621.91               |
| 2/10/2021  | 0.76                     | 668.0                               | 326.0                  | 4221.90                           | 2060.39              |
| 2/17/2021  | 0.80                     | 886.0                               | 1110.0                 | 5879.70                           | 7366.21              |
| 2/25/2021  | 0.76                     | 477.0                               | 1140.0                 | 3014.74                           | 7205.05              |
| 3/3/2021   | 0.61                     | 1130.0                              | 1310.0                 | 5713.48                           | 6623.59              |
| 3/10/2021  | 0.61                     | 249.0                               | 103.0                  | 1258.99                           | 520.79               |
| 3/17/2021  | 1.63                     | 198.0                               | 40.0                   | 2690.52                           | 543.54               |
| 3/24/2021  | 0.64                     | 126.0                               | 110.0                  | 676.90                            | 590.94               |
| 3/31/2021  | 1.06                     | 315.0                               | 478.0                  | 2787.22                           | 4229.49              |
| 4/1/2021   | 0.91                     |                                     |                        |                                   |                      |
| 4/7/2021   | 0.99                     | 1670.0                              | 139.0                  | 13721.19                          | 1142.06              |
| 4/14/2021  | 0.91                     | 444.0                               | 280.0                  | 3367.41                           | 2123.59              |
| 4/21/2021  | 0.76                     | 666.0                               | 134.0                  | 4209.26                           | 846.91               |
| 4/28/2021  | 1.02                     | 228.0                               | 101.0                  | 1945.36                           | 861.76               |
| 5/5/2021   | 1.25                     | 33.7                                | 29.1                   | 351.44                            | 303.47               |
| 5/12/2021  | 0.91                     | 340.0                               | 109.0                  | 2578.65                           | 826.68               |
| 5/19/2021  | 0.87                     | 790.0                               | 142.0                  | 5741.92                           | 1032.09              |
| 5/26/2021  | 0.76                     | 394.0                               | 137.0                  | 2490.17                           | 865.87               |
| 6/2/2021   | 1.78                     | 69.0                                | 65.5                   | 1024.82                           | 972.84               |
| 6/9/2021   | 1.36                     | 539.0                               | 302.0                  | 6131.87                           | 3435.67              |
| 6/16/2021  | 0.76                     | 537.0                               | 146.0                  | 3393.96                           | 922.75               |
| 6/23/2021  | 0.72                     | 972.0                               | 179.0                  | 5836.09                           | 1074.75              |
| 6/30/2021  | 1.55                     | 123.0                               | 106.0                  | 1593.64                           | 1373.38              |
| 7/7/2021   | 1.21                     | 310.0                               | 78.0                   | 3134.83                           | 788.76               |
| 7/14/2021  | 0.95                     | 755.0                               | 229.0                  | 5964.70                           | 1809.16              |
| 7/21/2021  | 0.80                     | 792.0                               | 116.0                  | 5255.89                           | 769.80               |
| 7/28/2021  | 0.80                     | 706.0                               | 133.0                  | 4685.18                           | 882.62               |
| 8/4/2021   | 0.64                     | 819.0                               | 103.0                  | 4399.82                           | 553.33               |
| 8/11/2021  | 0.57                     | 747.0                               | 620.0                  | 3540.90                           | 2938.90              |
| 8/18/2021  | 0.61                     | 15.7                                | 126.0                  | 79.38                             | 637.08               |
| 8/25/2021  | 0.53                     | 1230.0                              | 264.0                  | 5441.71                           | 1167.98              |



| Date       | Flow (Estimated)*<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|--------------------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 9/1/2021   | 0.53                     | 746.0                               | 816.0                  | 3300.42                           | 3610.11              |
| 9/8/2021   | 0.64                     | 1010.0                              | 172.0                  | 5425.91                           | 924.02               |
| 9/15/2021  | 0.64                     | 504.0                               | 160.0                  | 2707.58                           | 859.55               |
| 9/22/2021  | 0.57                     | 250.0                               | 130.0                  | 1185.04                           | 616.22               |
| 9/29/2021  | 0.61                     | 749.0                               | 134.0                  | 3787.07                           | 677.53               |
| 10/6/2021  | 0.42                     | 198.0                               | 56.0                   | 688.27                            | 194.66               |
| 10/13/2021 | 0.95                     | 177.0                               | 87.5                   | 1398.35                           | 691.27               |
| 10/20/2021 | 0.72                     | 230.0                               | 93.0                   | 1380.97                           | 558.39               |
| 10/27/2021 | 0.76                     | 343.0                               | 17.4                   | 2167.83                           | 109.97               |
| 11/3/2021  | 1.25                     | 170.0                               | 343.0                  | 1772.82                           | 3576.93              |
| 11/10/2021 | 0.76                     | 87.6                                | 78.0                   | 553.65                            | 492.98               |
| 11/17/2021 | 0.68                     | 483.0                               | 193.0                  | 2747.40                           | 1097.82              |
| 11/24/2021 | 0.76                     | 175.0                               | 81.0                   | 1106.04                           | 511.94               |
| 12/1/2021  | 0.68                     | 809.0                               | 110.0                  | 4601.75                           | 625.70               |
| 12/8/2021  | 0.61                     | 847.0                               | 229.0                  | 4282.58                           | 1157.86              |
| 12/15/2021 | 0.72                     | 1310.0                              | 195.0                  | 7865.51                           | 1170.82              |
| 12/22/2021 | 0.45                     | 612.0                               | 1540.0                 | 2320.78                           | 5839.88              |
| 12/28/2021 | 0.76                     | 503.0                               | 219.0                  | 3179.07                           | 1384.13              |
| 1/5/2022   | 1.02                     | 582.0                               | 94.0                   | 4965.79                           | 802.04               |
| 1/12/2022  | 0.87                     | 647.0                               | 210.0                  | 4702.56                           | 1526.33              |
| 1/19/2022  | 0.87                     | 406.0                               | 66.0                   | 2950.91                           | 479.70               |
| 1/26/2022  | 0.80                     | 206.0                               | 93.0                   | 1367.06                           | 617.17               |
| 2/2/2022   | 0.00                     | 328.0                               | 85.5                   | 0.00                              | 0.00                 |
| 2/9/2022   | 0.00                     | 105.0                               | 79.0                   | 0.00                              | 0.00                 |
| 2/16/2022  | 0.00                     | 1790.0                              | 162.0                  | 0.00                              | 0.00                 |
| 2/23/2022  | 0.00                     | 491.0                               | 99.0                   | 0.00                              | 0.00                 |
| 3/2/2022   | 0.80                     | 546.0                               | 216.0                  | 3623.38                           | 1433.43              |
| 3/9/2022   | 0.91                     | 244.0                               | 703.0                  | 1850.56                           | 5331.74              |
| 3/16/2022  | 0.91                     | 181.0                               | 84.7                   | 1372.75                           | 642.39               |
| 3/23/2022  | 0.72                     | 44.5                                | 22.0                   | 267.19                            | 132.09               |
| 3/30/2022  | 1.10                     | 150.0                               | 52.4                   | 1374.65                           | 480.21               |
| 4/6/2022   | 1.29                     | 2.0                                 | 50.0                   | 21.49                             | 537.22               |
| 4/13/2022  | 1.21                     | 21.2                                | 27.8                   | 214.38                            | 281.12               |
| 4/20/2022  | 1.33                     | 34.6                                | 159.0                  | 382.69                            | 1758.60              |
| 4/27/2022  | 1.21                     | 473.0                               | 580.0                  | 4783.14                           | 5865.16              |
| 5/4/2022   | 2.08                     | 32.4                                | 82.7                   | 563.13                            | 1437.38              |
| 5/11/2022  | 1.67                     | 124.0                               | 34.5                   | 1724.16                           | 479.70               |
| 5/18/2022  | 1.55                     | 166.0                               | 72.0                   | 2150.77                           | 932.86               |
| 5/25/2022  | 1.52                     | 297.0                               | 78.5                   | 3754.21                           | 992.27               |
| 6/1/2022   | 1.44                     | 469.0                               | 237.0                  | 5631.95                           | 2845.99              |
| 6/8/2022   | 1.17                     | 643.0                               | 145.0                  | 6299.04                           | 1420.47              |
| 6/15/2022  | 1.02                     | 21.0                                | 38.6                   | 179.18                            | 329.35               |
| 6/22/2022  | 0.95                     | 274.0                               | 144.0                  | 2164.67                           | 1137.64              |
| 6/29/2022  | 1.02                     | 72.6                                | 181.0                  | 619.44                            | 1544.35              |

|            | Flow (Estimated)* | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
|------------|-------------------|---------------------------|--------------|-----------------------|----------|
| Date       | MGD               | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
| 7/6/2022   | 0.80              | 213.0                     | 126.0        | 1413.52               | 836.16   |
| 7/13/2022  | 0.76              | 297.0                     | 486.0        | 1877.10               | 3071.63  |
| 7/20/2022  | 0.95              | 251.0                     | 212.0        | 1982.97               | 1674.86  |
| 7/27/2022  | 0.76              | 384.0                     | 314.0        | 2426.96               | 1984.55  |
| 8/3/2022   | 0.80              | 256.0                     | 62.7         | 1698.87               | 416.09   |
| 8/10/2022  | 0.61              | 522.0                     | 258.0        | 2639.32               | 1304.49  |
| 8/17/2022  | 1.21              | 1610.0                    | 679.0        | 16280.88              | 6866.28  |
| 8/24/2022  | 0.53              | 503.0                     | 96.7         | 2225.35               | 427.82   |
| 8/31/2022  | 0.91              | 201.0                     | 271.0        | 1524.44               | 2055.33  |
| 9/7/2022   | 0.76              | 269.0                     | 109.0        | 1700.14               | 688.90   |
| 9/14/2022  | 0.64              | 698.0                     | 490.0        | 3749.78               | 2632.37  |
| 9/21/2022  | 0.61              | 976.0                     | 223.0        | 4934.83               | 1127.53  |
| 9/28/2022  | 0.53              | 756.0                     | 212.0        | 3344.66               | 937.92   |
| 10/5/2022  | 0.57              | 350.0                     | 126.0        | 1659.06               | 597.26   |
| 10/12/2022 | 0.61              | 700.0                     | 238.0        | 3539.32               | 1203.37  |
| 10/19/2022 | 0.53              | 2420.0                    | 508.0        | 10706.45              | 2247.47  |
| 10/26/2022 | 0.68              | 75.3                      | 170.0        | 428.32                | 966.99   |
| 11/2/2022  | 0.72              | 766.0                     | 544.0        | 4599.22               | 3266.29  |
| 11/9/2022  | 0.68              | 242.0                     | 26.0         | 1376.54               | 147.89   |
| 11/16/2022 | 0.76              | 1490.0                    | 211.0        | 9417.12               | 1333.57  |
| 11/23/2022 | 0.61              | 764.0                     | 307.0        | 3862.92               | 1552.25  |
| 11/30/2022 | 0.76              | 645.0                     | 201.0        | 4076.54               | 1270.36  |
| 12/7/2022  | 0.61              | 273.0                     | 83.6         | 1380.34               | 422.70   |
| 12/14/2022 | 0.57              | 244.0                     | 120.0        | 1156.60               | 568.82   |
| 12/21/2022 | 0.80              | 356.0                     | 82.5         | 2362.50               | 547.49   |
| 12/28/2022 | 1.17              | 191.0                     | 102.0        | 1871.10               | 999.23   |
|            | MGD               | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
|            | Flow              | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
| Averages:  | 0.85              | 443.9                     | 202.5        | 2756.1                | 1362.9   |
| Max:       | 2.08              | 2420.0                    | 1540.0       | 16280.9               | 7366.2   |
| Minimum:   | 0.00              | 2.0                       | 12.5         | 0.0                   | 0.0      |

\*Based on Shoal Creek Daily Flow to Average Flow Ratio Relative to Crowder Average Flow

Shoal Creek WWTP Flows and Loads

| Date       | Flow<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|-------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 1/3/2020   | 2.3         | 630.0                               | 52.2                   | 12084.66                          | 1001.30              |
| 1/8/2020   | 2.3         | 171.0                               | 78.7                   | 3280.12                           | 1509.62              |
| 1/15/2020  | 2.6         | 282.0                               | 61.3                   | 6114.89                           | 1329.23              |
| 1/22/2020  | 1.6         | 44.2                                | 113.0                  | 589.80                            | 1507.87              |
| 1/29/2020  | 2.0         | 78.0                                | 82.4                   | 1301.04                           | 1374.43              |
| 2/5/2020   |             |                                     |                        |                                   |                      |
| 2/12/2020  |             |                                     |                        |                                   |                      |
| 2/19/2020  |             |                                     |                        |                                   |                      |
| 2/26/2020  |             |                                     |                        |                                   |                      |
| 3/4/2020   | 2.4         | 119.0                               | 174.0                  | 2381.90                           | 3482.78              |
| 3/11/2020  | 2.1         | 478.0                               | 350.0                  | 8411.56                           | 6159.09              |
| 3/18/2020  | 2.1         | 97.3                                | 252.0                  | 1704.11                           | 4413.53              |
| 3/25/2020  | 2.3         | 141.0                               | 260.0                  | 2704.66                           | 4987.32              |
| 4/1/2020   | 2.4         | 66.2                                | 32.3                   | 1325.06                           | 646.52               |
| 4/8/2020   | 2.8         | 289.0                               | 566.0                  | 6748.73                           | 13217.23             |
| 4/15/2020  | 2.1         | 37.2                                | 112.0                  | 651.52                            | 1961.57              |
| 4/22/2020  | 2.8         | 74.0                                | 130.0                  | 1728.05                           | 3035.76              |
| 4/29/2020  | 4.8         | 123.0                               | 179.0                  | 4923.94                           | 7165.73              |
| 5/6/2020   | 3.0         | 24.6                                | 78.7                   | 615.49                            | 1969.07              |
| 5/13/2020  | 3.5         | 60.9                                | 184.0                  | 1777.67                           | 5370.96              |
| 5/20/2020  | 2.7         | 13.2                                | 26.7                   | 297.24                            | 601.23               |
| 5/27/2020  | 4.9         | 9.8                                 | 25.0                   | 400.49                            | 1021.65              |
| 6/3/2020   | 3.7         | 34.0                                | 175.0                  | 1049.17                           | 5400.15              |
| 6/10/2020  | 3.2         | 22.6                                | 99.0                   | 603.15                            | 2642.11              |
| 6/17/2020  | 2.0         | 12.4                                | 18.0                   | 206.83                            | 300.24               |
| 6/24/2020  | 1.8         | 27.2                                | 169.0                  | 408.33                            | 2537.03              |
| 6/30/2020  |             |                                     |                        |                                   |                      |
| 7/8/2020   | 1.9         | 192.0                               | 188.0                  | 3042.43                           | 2979.05              |
| 7/15/2020  | 1.9         | 25.6                                | 43.0                   | 405.66                            | 681.38               |
| 7/22/2020  | 2.6         | 34.4                                | 31.2                   | 745.93                            | 676.54               |
| 7/29/2020  | 1.9         | 134.0                               | 171.0                  | 2123.36                           | 2709.67              |
| 8/5/2020   | 1.8         | 27.4                                | 43.2                   | 411.33                            | 648.52               |
| 8/12/2020  | 1.8         | 24.4                                | 47.6                   | 366.29                            | 714.57               |
| 8/19/2020  | 1.5         | 40.2                                | 39.0                   | 502.90                            | 487.89               |
| 8/26/2020  | 1.8         | 42.9                                | 70.4                   | 644.01                            | 1056.84              |
| 9/2/2020   | 1.7         | 11.8                                | 29.2                   | 167.30                            | 414.00               |
| 9/9/2020   | 1.6         | 71.4                                | 62.5                   | 952.76                            | 834.00               |
| 9/16/2020  | 1.5         | 35.7                                | 25.8                   | 446.61                            | 322.76               |
| 9/23/2020  | 1.5         | 53.9                                | 74.5                   | 674.29                            | 932.00               |
| 9/30/2020  | 1.6         | 27.2                                | 22.2                   | 362.96                            | 296.24               |
| 10/7/2020  | 1.6         | 38.2                                | 117.0                  | 509.74                            | 1561.25              |
| 10/14/2020 | 1.7         | 35.4                                | 77.5                   | 501.90                            | 1098.80              |
| 10/21/2020 | 1.7         | 14.8                                | 52.8                   | 209.83                            | 748.60               |

| Date       | Flow<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|-------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 10/28/2020 | 3.5         | 23.2                                | 70.5                   | 677.21                            | 2057.90              |
| 11/4/2020  | 2.3         | 27.2                                | 31.8                   | 521.75                            | 609.99               |
| 11/11/2020 | 3           | 38.1                                | 98.0                   | 953.26                            | 2451.96              |
| 11/18/2020 | 2.3         | 60.2                                | 76.0                   | 1154.76                           | 1457.83              |
| 11/25/2020 | 4.2         | 26.4                                | 60.7                   | 924.74                            | 2126.20              |
| 12/2/2020  | 3.2         | 61.6                                | 32.5                   | 1643.98                           | 867.36               |
| 12/9/2020  | 2.2         | 59.1                                | 91.0                   | 1084.37                           | 1669.67              |
| 12/16/2020 | 2.7         | 112.0                               | 150.0                  | 2522.02                           | 3377.70              |
| 12/23/2020 | 2           | 40.2                                | 52.2                   | 670.54                            | 870.70               |
| 12/30/2020 | 3.2         | 37.0                                | 44.0                   | 987.46                            | 1174.27              |
| 1/6/2021   | 4           | 48.5                                | 24.8                   | 1617.96                           | 827.33               |
| 1/13/2021  | 2.7         | 71.0                                | 120.0                  | 1598.78                           | 2702.16              |
| 1/20/2021  | 3           | 66.4                                | 92.0                   | 1661.33                           | 2301.84              |
| 1/27/2021  | 3           | 13.0                                | 32.0                   | 325.26                            | 800.64               |
| 2/3/2021   | 2.4         | 28.8                                | 38.9                   | 576.46                            | 778.62               |
| 2/10/2021  | 2           | 37.8                                | 73.6                   | 630.50                            | 1227.65              |
| 2/17/2021  | 2.1         | 33.1                                | 40.3                   | 579.71                            | 705.81               |
| 2/25/2021  | 2           | 29.8                                | 57.2                   | 497.06                            | 954.10               |
| 3/3/2021   | 1.6         | 46.7                                | 172.0                  | 623.16                            | 2295.17              |
| 3/10/2021  | 1.6         | 24.1                                | 36.0                   | 321.59                            | 480.38               |
| 3/17/2021  | 4.3         | 25.3                                | 77.0                   | 907.31                            | 2761.37              |
| 3/24/2021  | 1.7         | 24.6                                | 9.1                    | 348.78                            | 129.02               |
| 3/31/2021  | 2.8         | 16.1                                | 10.1                   | 375.97                            | 235.86               |
| 4/1/2021   | 2.4         | 16.1                                | 10.1                   | 322.26                            | 202.16               |
| 4/7/2021   | 2.6         | 3.3                                 | 25.3                   | 71.56                             | 548.61               |
| 4/14/2021  | 2.4         | 74.2                                | 355.0                  | 1485.19                           | 7105.68              |
| 4/21/2021  | 2           | 43.4                                | 105.0                  | 723.91                            | 1751.40              |
| 4/28/2021  | 2.7         | 64.2                                | 144.0                  | 1445.66                           | 3242.59              |
| 5/5/2021   | 3.3         | 44.4                                | 215.0                  | 1221.98                           | 5917.23              |
| 5/12/2021  | 2.4         | 15.8                                | 16.2                   | 316.25                            | 324.26               |
| 5/19/2021  | 2.3         | 17.6                                | 190.0                  | 337.60                            | 3644.58              |
| 5/26/2021  | 2           | 43.4                                | 76.7                   | 723.91                            | 1279.36              |
| 6/2/2021   | 4.7         | 16.6                                | 189.0                  | 650.69                            | 7408.42              |
| 6/9/2021   | 3.6         | 12.3                                | 149.0                  | 369.30                            | 4473.58              |
| 6/16/2021  | 2           | 27.7                                | 101.0                  | 462.04                            | 1684.68              |
| 6/23/2021  | 1.9         | 39.6                                | 99.5                   | 627.50                            | 1576.68              |
| 6/30/2021  | 4.1         | 22.1                                | 29.5                   | 755.69                            | 1008.72              |
| 7/7/2021   | 3.2         | 42.0                                | 24.9                   | 1120.90                           | 664.53               |
| 7/14/2021  | 2.5         | 46.6                                | 85.5                   | 971.61                            | 1782.68              |
| 7/21/2021  | 2.1         | 53.8                                | 54.5                   | 942.25                            | 954.51               |
| 7/28/2021  | 2.1         | 21.8                                | 18.8                   | 381.81                            | 329.26               |
| 8/4/2021   | 1.7         | 21.8                                | 41.6                   | 309.08                            | 589.80               |
| 8/11/2021  | 1.5         | 13.2                                | 27.8                   | 165.13                            | 347.78               |
| 8/18/2021  | 1.6         | 28.9                                | 70.0                   | 385.64                            | 934.08               |
| 8/25/2021  | 1.4         | 15.3                                | 41.0                   | 178.64                            | 478.72               |

| Date       | Flow<br>MGD | Influent BOD <sub>5</sub><br>(mg/L) | Influent TSS<br>(mg/L) | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
|------------|-------------|-------------------------------------|------------------------|-----------------------------------|----------------------|
| 9/1/2021   | 1.4         | 28.8                                | 76.4                   | 336.27                            | 892.05               |
| 9/8/2021   | 1.7         | 27.9                                | 34.6                   | 395.57                            | 490.56               |
| 9/15/2021  | 1.7         | 45.1                                | 60.0                   | 639.43                            | 850.68               |
| 9/22/2021  | 1.5         | 14.9                                | 23.1                   | 186.40                            | 288.98               |
| 9/29/2021  | 1.6         | 44.3                                | 75.0                   | 591.14                            | 1000.80              |
| 10/6/2021  | 1.1         | 36.9                                | 23.6                   | 338.52                            | 216.51               |
| 10/13/2021 | 2.5         | 43.4                                | 74.0                   | 904.89                            | 1542.90              |
| 10/20/2021 | 1.9         | 48.3                                | 35.8                   | 765.36                            | 567.29               |
| 10/27/2021 | 2           | 27.4                                | 20.2                   | 457.03                            | 336.94               |
| 11/3/2021  | 3.3         | 15.7                                | 25.2                   | 432.10                            | 693.55               |
| 11/10/2021 | 2           | 15.5                                | 26.0                   | 258.54                            | 433.68               |
| 11/17/2021 | 1.8         | 19.7                                | 36.3                   | 295.74                            | 544.94               |
| 11/24/2021 | 2           | 41.5                                | 46.0                   | 692.22                            | 767.28               |
| 12/1/2021  | 1.8         | 67.3                                | 112.0                  | 1010.31                           | 1681.34              |
| 12/8/2021  | 1.6         | 15.9                                | 23.4                   | 212.17                            | 312.25               |
| 12/15/2021 | 1.9         | 18.8                                | 15.6                   | 297.90                            | 247.20               |
| 12/22/2021 | 1.2         | 40.9                                | 176.0                  | 409.33                            | 1761.41              |
| 12/28/2021 | 2           | 17.3                                | 51.3                   | 288.56                            | 855.68               |
| 1/5/2022   | 2.7         | 27.4                                | 52.0                   | 616.99                            | 1170.94              |
| 1/12/2022  | 2.3         | 40.1                                | 21.4                   | 769.20                            | 410.49               |
| 1/19/2022  | 2.3         | 94.2                                | 550.0                  | 1806.94                           | 10550.10             |
| 1/26/2022  | 2.1         | 34.8                                | 34.7                   | 609.49                            | 607.74               |
| 2/2/2022   |             |                                     |                        |                                   |                      |
| 2/9/2022   |             |                                     |                        |                                   |                      |
| 2/16/2022  |             |                                     |                        |                                   |                      |
| 2/23/2022  |             |                                     |                        |                                   |                      |
| 3/2/2022   | 2.1         | 27.4                                | 42.7                   | 479.88                            | 747.85               |
| 3/9/2022   | 2.4         | 5.1                                 | 16.7                   | 102.08                            | 334.27               |
| 3/16/2022  | 2.4         | 31.2                                | 56.8                   | 624.50                            | 1136.91              |
| 3/23/2022  | 1.9         | 17.7                                | 20.0                   | 280.47                            | 316.92               |
| 3/30/2022  | 2.9         | 41.8                                | 28.1                   | 1010.97                           | 679.63               |
| 4/6/2022   | 3.4         | 24.6                                | 52.2                   | 697.56                            | 1480.18              |
| 4/13/2022  | 3.2         | 15.4                                | 5.2                    | 411.00                            | 138.78               |
| 4/20/2022  | 3.5         | 2.0                                 | 32.3                   | 58.38                             | 942.84               |
| 4/27/2022  | 3.2         | 23.2                                | 118.0                  | 619.16                            | 3149.18              |
| 5/4/2022   | 5.5         | 16.9                                | 206.0                  | 775.20                            | 9449.22              |
| 5/11/2022  | 4.4         | 12.8                                | 36.7                   | 469.71                            | 1346.74              |
| 5/18/2022  | 4.1         | 26.6                                | 58.7                   | 909.56                            | 2007.19              |
| 5/25/2022  | 4           | 15.7                                | 13.3                   | 523.75                            | 443.69               |
| 6/1/2022   | 3.8         | 143.0                               | 107.0                  | 4531.96                           | 3391.04              |
| 6/8/2022   | 3.1         | 10.3                                | 53.0                   | 266.30                            | 1370.26              |
| 6/15/2022  | 2.7         | 209.0                               | 120.0                  | 4706.26                           | 2702.16              |
| 6/22/2022  | 2.5         | 10.2                                | 79.0                   | 212.67                            | 1647.15              |
| 6/29/2022  | 2.7         | 17.6                                | 87.6                   | 396.32                            | 1972.58              |



|            | Flow | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
|------------|------|---------------------------|--------------|-----------------------|----------|
| Date       | MGD  | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
| 7/6/2022   | 2.1  | 12.4                      | 416.0        | 217.17                | 7285.82  |
| 7/13/2022  | 2    | 35.7                      | 398.0        | 595.48                | 6638.64  |
| 7/20/2022  | 2.5  | 29.8                      | 93.3         | 621.33                | 1945.31  |
| 7/27/2022  | 2    | 33.0                      | 228.0        | 550.44                | 3803.04  |
| 8/3/2022   | 2.1  | 26.6                      | 71.3         | 465.87                | 1248.75  |
| 8/10/2022  | 1.6  | 69.3                      | 166.0        | 924.74                | 2215.10  |
| 8/17/2022  | 3.2  | 59.8                      | 300.0        | 1595.94               | 8006.40  |
| 8/24/2022  | 1.4  | 16.3                      | 42.8         | 190.32                | 499.73   |
| 8/31/2022  | 2.4  | 56.7                      | 73.1         | 1134.91               | 1463.17  |
| 9/7/2022   | 2    | 11.7                      | 27.6         | 195.16                | 460.37   |
| 9/14/2022  | 1.7  | 40.8                      | 55.9         | 578.46                | 792.55   |
| 9/21/2022  | 1.6  | 104.0                     | 267.0        | 1387.78               | 3562.85  |
| 9/28/2022  | 1.4  | 42.0                      | 30.8         | 490.39                | 359.62   |
| 10/5/2022  | 1.5  | 96.4                      | 119.0        | 1205.96               | 1488.69  |
| 10/12/2022 | 1.6  | 10.1                      | 15.6         | 134.77                | 208.17   |
| 10/19/2022 | 1.4  | 90.8                      | 67.0         | 1060.18               | 782.29   |
| 10/26/2022 | 1.8  | 16.9                      | 25.8         | 253.70                | 387.31   |
| 11/2/2022  | 1.9  | 32.6                      | 46.3         | 516.58                | 733.67   |
| 11/9/2022  | 1.8  | 19.8                      | 71.3         | 297.24                | 1070.36  |
| 11/16/2022 | 2    | 48.2                      | 88.3         | 803.98                | 1472.84  |
| 11/23/2022 | 1.6  | 29.5                      | 52.0         | 393.65                | 693.89   |
| 11/30/2022 | 2    | 30.8                      | 23.8         | 513.74                | 396.98   |
| 12/7/2022  | 1.6  | 158.0                     | 242.0        | 2108.35               | 3229.25  |
| 12/14/2022 | 1.5  | 11.8                      | 5.1          | 147.62                | 63.80    |
| 12/21/2022 | 2.1  | 14.4                      | 5.0          | 252.20                | 87.57    |
| 12/28/2022 | 3.1  | 11.4                      | 16.3         | 294.74                | 421.42   |

|           | Flow | Influent BOD <sub>5</sub> | Influent TSS | BOD <sub>5</sub> Load | TSS Load |
|-----------|------|---------------------------|--------------|-----------------------|----------|
|           | MGD  | (mg/L)                    | (mg/L)       | (lb/day)              | (lb/day) |
| Averages: | 2.4  | 52.4                      | 90.9         | 1026.0                | 1850.4   |
| Max:      | 5.5  | 630.0                     | 566.0        | 12084.7               | 13217.2  |
| Minimum:  | 1.1  | 2.0                       | 5.0          | 58.4                  | 63.8     |

Shoal Creek and Crowder WWTP  
Combined Flows

| Date       | MO MAX |      |
|------------|--------|------|
| 1/3/2020   | 3.17   |      |
| 1/8/2020   | 3.17   |      |
| 1/15/2020  | 3.59   |      |
| 1/22/2020  | 2.21   |      |
| 1/29/2020  | 2.76   | 2.98 |
| 2/5/2020   | 0.00   | 2.34 |
| 2/12/2020  | 0.00   | 1.71 |
| 2/19/2020  | 0.00   | 0.99 |
| 2/26/202   | 0.00   | 0.55 |
| 3/4/2020   | 3.31   | 0.66 |
| 3/11/2020  | 2.91   | 1.24 |
| 3/18/2020  | 2.90   | 1.82 |
| 3/25/2020  | 3.17   | 2.46 |
| 4/1/2020   | 3.31   | 3.12 |
| 4/8/2020   | 3.86   | 3.23 |
| 4/15/2020  | 2.90   | 3.23 |
| 4/22/2020  | 3.86   | 3.42 |
| 4/29/2020  | 6.62   | 4.11 |
| 5/6/2020   | 4.14   | 4.27 |
| 5/13/2020  | 4.83   | 4.47 |
| 5/20/2020  | 3.72   | 4.63 |
| 5/27/2020  | 6.76   | 5.21 |
| 6/3/2020   | 5.10   | 4.91 |
| 6/10/2020  | 4.41   | 4.96 |
| 6/17/2020  | 2.76   | 4.55 |
| 6/24/2020  | 2.48   | 4.30 |
| 6/30/2020  | 0.00   | 2.95 |
| 7/8/2020   | 2.62   | 2.45 |
| 7/15/2020  | 2.62   | 2.10 |
| 7/22/2020  | 3.59   | 2.26 |
| 7/29/2020  | 2.62   | 2.29 |
| 8/5/2020   | 2.48   | 2.79 |
| 8/12/2020  | 2.48   | 2.76 |
| 8/19/2020  | 2.07   | 2.65 |
| 8/26/2020  | 2.48   | 2.43 |
| 9/2/2020   | 2.34   | 2.37 |
| 9/9/2020   | 2.21   | 2.32 |
| 9/16/2020  | 2.07   | 2.23 |
| 9/23/2020  | 2.07   | 2.23 |
| 9/30/2020  | 2.21   | 2.18 |
| 10/7/2020  | 2.21   | 2.15 |
| 10/14/2020 | 2.34   | 2.18 |
| 10/21/2020 | 2.34   | 2.23 |
|            |        | 2.28 |

|            |      |      |
|------------|------|------|
| Date       |      | 2.30 |
| 10/28/2020 | 4.83 | 3.17 |
| 11/4/2020  | 3.17 | 3.45 |
| 11/11/2020 | 4.14 | 4.04 |
| 11/18/2020 | 3.17 | 3.83 |
| 11/25/2020 | 5.79 | 4.22 |
| 12/2/2020  | 4.41 | 4.14 |
| 12/9/2020  | 3.03 | 4.11 |
| 12/16/2020 | 3.72 | 4.03 |
| 12/23/2020 | 2.76 | 3.94 |
| 12/30/2020 | 4.41 | 3.67 |
| 1/6/2021   | 5.52 | 3.89 |
| 1/13/2021  | 3.72 | 4.03 |
| 1/20/2021  | 4.14 | 4.11 |
| 1/27/2021  | 4.14 | 4.38 |
| 2/3/2021   | 3.31 | 4.16 |
| 2/10/2021  | 2.76 | 3.61 |
| 2/17/2021  | 2.90 | 3.45 |
| 2/25/2021  | 2.76 | 3.17 |
| 3/3/2021   | 2.21 | 2.79 |
| 3/10/2021  | 2.21 | 2.56 |
| 3/17/2021  | 5.93 | 3.20 |
| 3/24/2021  | 2.34 | 3.09 |
| 3/31/2021  | 3.86 | 3.31 |
| 4/1/2021   | 3.31 | 3.53 |
| 4/7/2021   | 3.59 | 3.81 |
| 4/14/2021  | 3.31 | 3.28 |
| 4/21/2021  | 2.76 | 3.36 |
| 4/28/2021  | 3.72 | 3.34 |
| 5/5/2021   | 4.55 | 3.59 |
| 5/12/2021  | 3.31 | 3.53 |
| 5/19/2021  | 3.17 | 3.50 |
| 5/26/2021  | 2.76 | 3.50 |
| 6/2/2021   | 6.48 | 4.05 |
| 6/9/2021   | 4.96 | 4.14 |
| 6/16/2021  | 2.76 | 4.03 |
| 6/23/2021  | 2.62 | 3.92 |
| 6/30/2021  | 5.65 | 4.50 |
| 7/7/2021   | 4.41 | 4.08 |
| 7/14/2021  | 3.45 | 3.78 |
| 7/21/2021  | 2.90 | 3.81 |
| 7/28/2021  | 2.90 | 3.86 |
| 8/4/2021   | 2.34 | 3.20 |
| 8/11/2021  | 2.07 | 2.73 |
| 8/18/2021  | 2.21 | 2.48 |
| 8/25/2021  | 1.93 | 2.29 |
|            |      | 2.14 |

|            |      |      |
|------------|------|------|
| Date       |      | 2.07 |
| 9/1/2021   | 1.93 | 2.02 |
| 9/8/2021   | 2.34 | 2.07 |
| 9/15/2021  | 2.34 | 2.21 |
| 9/22/2021  | 2.07 | 2.17 |
| 9/29/2021  | 2.21 | 2.18 |
| 10/6/2021  | 1.52 | 2.10 |
| 10/13/2021 | 3.45 | 2.32 |
| 10/20/2021 | 2.62 | 2.37 |
| 10/27/2021 | 2.76 | 2.51 |
| 11/3/2021  | 4.55 | 2.98 |
| 11/10/2021 | 2.76 | 3.23 |
| 11/17/2021 | 2.48 | 3.03 |
| 11/24/2021 | 2.76 | 3.06 |
| 12/1/2021  | 2.48 | 3.01 |
| 12/8/2021  | 2.21 | 2.54 |
| 12/15/2021 | 2.62 | 2.51 |
| 12/22/2021 | 1.65 | 2.34 |
| 12/28/2021 | 2.76 | 2.34 |
| 1/5/2022   | 3.72 | 2.59 |
| 1/12/2022  | 3.17 | 2.79 |
| 1/19/2022  | 3.17 | 2.90 |
| 1/26/2022  | 2.90 | 3.14 |
| 2/2/2022   | 0.00 | 2.59 |
| 2/9/2022   | 0.00 | 1.85 |
| 2/16/2022  | 0.00 | 1.21 |
| 2/23/2022  | 0.00 | 0.58 |
| 3/2/2022   | 2.90 | 0.58 |
| 3/9/2022   | 3.31 | 1.24 |
| 3/16/2022  | 3.31 | 1.90 |
| 3/23/2022  | 2.62 | 2.43 |
| 3/30/2022  | 4.00 | 3.23 |
| 4/6/2022   | 4.69 | 3.59 |
| 4/13/2022  | 4.41 | 3.81 |
| 4/20/2022  | 4.83 | 4.11 |
| 4/27/2022  | 4.41 | 4.47 |
| 5/4/2022   | 7.58 | 5.18 |
| 5/11/2022  | 6.07 | 5.46 |
| 5/18/2022  | 5.65 | 5.71 |
| 5/25/2022  | 5.52 | 5.85 |
| 6/1/2022   | 5.24 | 6.01 |
| 6/8/2022   | 4.27 | 5.35 |
| 6/15/2022  | 3.72 | 4.88 |
| 6/22/2022  | 3.45 | 4.44 |
| 6/29/2022  | 3.72 | 4.08 |
|            |      | 3.79 |
| Date       |      | 3.63 |

|            |      |      |
|------------|------|------|
| 7/6/2022   | 2.90 | 3.36 |
| 7/13/2022  | 2.76 | 3.13 |
| 7/20/2022  | 3.45 | 3.03 |
| 7/27/2022  | 2.76 | 2.96 |
| 8/3/2022   | 2.90 | 2.95 |
| 8/10/2022  | 2.21 | 2.81 |
| 8/17/2022  | 4.41 | 3.14 |
| 8/24/2022  | 1.93 | 2.84 |
| 8/31/2022  | 3.31 | 2.95 |
| 9/7/2022   | 2.76 | 2.92 |
| 9/14/2022  | 2.34 | 2.95 |
| 9/21/2022  | 2.21 | 2.51 |
| 9/28/2022  | 1.93 | 2.51 |
| 10/5/2022  | 2.07 | 2.26 |
| 10/12/2022 | 2.21 | 2.15 |
| 10/19/2022 | 1.93 | 2.07 |
| 10/26/2022 | 2.48 | 2.12 |
| 11/2/2022  | 2.62 | 2.26 |
| 11/9/2022  | 2.48 | 2.34 |
| 11/16/2022 | 2.76 | 2.45 |
| 11/23/2022 | 2.21 | 2.51 |
| 11/30/2022 | 2.76 | 2.56 |
| 12/7/2022  | 2.21 | 2.48 |
| 12/14/2022 | 2.07 | 2.40 |
| 12/21/2022 | 2.90 | 2.43 |
| 12/28/2022 | 4.27 | 2.84 |

Averages:

Max: 6.01

Minimum:



Shoal Creek and Crowder WWTP Combined Loads

| Date      | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) | <u>Monthly Averages</u>           |                      |
|-----------|-----------------------------------|----------------------|-----------------------------------|----------------------|
|           |                                   |                      | BOD <sub>5</sub> Load<br>(lb/day) | TSS Load<br>(lb/day) |
| 1/3/2020  | 13153.09                          | 1152.48              |                                   |                      |
| 1/8/2020  | 4835.53                           | 2091.08              |                                   |                      |
| 1/15/2020 | 7166.57                           | 1710.46              |                                   |                      |
| 1/22/2020 | 781.43                            | 1596.86              |                                   |                      |
| 1/29/2020 | 1924.85                           | 1722.04              | 5572.29                           | 1654.59              |
| 2/5/2020  |                                   |                      | 3677.09                           | 1780.11              |
| 2/12/2020 |                                   |                      | 3290.95                           | 1676.46              |
| 2/19/2020 |                                   |                      | 1353.14                           | 1659.45              |
| 2/26/2020 |                                   |                      | 1924.85                           | 1722.04              |
| 3/4/2020  | 4588.92                           | 4271.55              | 4588.92                           | 4271.55              |
| 3/11/2020 | 9029.66                           | 6394.46              | 6809.29                           | 5333.01              |
| 3/18/2020 | 2192.54                           | 4496.48              | 5270.38                           | 5054.16              |
| 3/25/2020 | 2831.86                           | 5083.99              | 4660.75                           | 5061.62              |
| 4/1/2020  | 1532.11                           | 895.28               | 4035.02                           | 4228.35              |
| 4/8/2020  | 7969.79                           | 14172.85             | 4711.19                           | 6208.61              |
| 4/15/2020 | 1892.50                           | 3713.53              | 3283.76                           | 5672.43              |
| 4/22/2020 | 3878.19                           | 3814.41              | 3620.89                           | 5536.01              |
| 4/29/2020 | 7153.71                           | 8379.21              | 4485.26                           | 6195.06              |
| 5/6/2020  | 2265.07                           | 2992.95              | 4631.85                           | 6614.59              |
| 5/13/2020 | 2894.77                           | 6074.40              | 3616.85                           | 4994.90              |
| 5/20/2020 | 2148.75                           | 1608.04              | 3668.10                           | 4573.80              |
| 5/27/2020 | 530.56                            | 1305.02              | 2998.57                           | 4071.92              |
| 6/3/2020  | 2440.57                           | 6031.54              | 2055.94                           | 3602.39              |
| 6/10/2020 | 4668.31                           | 4654.47              | 2536.59                           | 3934.69              |
| 6/17/2020 | 1565.68                           | 1463.16              | 2270.77                           | 3012.45              |
| 6/24/2020 | 7234.16                           | 3276.49              | 3287.86                           | 3346.14              |
| 6/30/2020 |                                   |                      | 3977.18                           | 3856.42              |
| 7/8/2020  | 8440.21                           | 5500.81              | 5477.09                           | 3723.73              |
| 7/15/2020 | 2327.00                           | 1065.65              | 4891.76                           | 2826.53              |
| 7/22/2020 | 7762.63                           | 6427.94              | 6441.00                           | 4067.72              |
| 7/29/2020 | 4495.03                           | 3316.09              | 5756.22                           | 4077.62              |
| 8/5/2020  | 5707.04                           | 1257.16              | 5746.38                           | 3513.53              |
| 8/12/2020 | 2106.88                           | 1027.42              | 4479.72                           | 2618.85              |
| 8/19/2020 | 8513.78                           | 914.50               | 5717.07                           | 2588.62              |
| 8/26/2020 | 2578.00                           | 1441.37              | 4680.14                           | 1591.31              |
| 9/2/2020  | 2197.99                           | 830.88               | 4220.74                           | 1094.27              |
| 9/9/2020  | 1852.76                           | 1354.79              | 3449.88                           | 1113.79              |
| 9/16/2020 | 1233.47                           | 536.07               | 3275.20                           | 1015.52              |
| 9/23/2020 | 2916.39                           | 5634.24              | 2155.72                           | 1959.47              |
| 9/30/2020 | 1348.91                           | 811.97               | 1909.90                           | 1833.59              |

|            |                       |          |         |         |
|------------|-----------------------|----------|---------|---------|
| 10/7/2020  | 1318.73               | 1975.85  | 1734.05 | 2062.58 |
| 10/14/2020 | 4450.46               | 4026.64  | 2253.59 | 2596.95 |
| 10/21/2020 | 3309.58               | 1361.03  | 2668.81 | 2761.94 |
|            | BOD <sub>5</sub> Load | TSS Load | 2606.92 | 2043.87 |
| Date       | (lb/day)              | (lb/day) | 3026.26 | 2454.51 |
| 10/28/2020 | 1508.95               | 2904.01  | 3089.66 | 2763.89 |
| 11/4/2020  | 2178.91               | 962.50   | 2332.48 | 1742.51 |
| 11/11/2020 | 14225.72              | 9581.16  | 5971.19 | 4482.56 |
| 11/18/2020 | 3604.16               | 2569.87  | 5379.43 | 4004.39 |
| 11/25/2020 | 2397.98               | 4209.98  | 4783.14 | 4045.51 |
| 12/2/2020  | 3757.46               | 1646.01  | 5232.85 | 3793.90 |
| 12/9/2020  | 4616.10               | 2545.65  | 5720.28 | 4110.53 |
| 12/16/2020 | 4057.83               | 3951.07  | 3686.71 | 2984.52 |
| 12/23/2020 | 5941.60               | 1616.48  | 4154.19 | 2793.84 |
| 12/30/2020 | 6063.85               | 7979.88  | 4887.37 | 3547.82 |
| 1/6/2021   | 1865.71               | 2988.84  | 4509.02 | 3816.39 |
| 1/13/2021  | 2118.39               | 2917.17  | 4009.48 | 3890.69 |
| 1/20/2021  | 6458.37               | 5714.76  | 4489.59 | 4243.43 |
| 1/27/2021  | 1123.50               | 1758.15  | 3525.97 | 4271.76 |
| 2/3/2021   |                       |          | 2891.50 | 3344.73 |
| 2/10/2021  |                       |          | 3233.42 | 3463.36 |
| 2/17/2021  |                       |          | 3790.94 | 3736.46 |
| 2/25/2021  |                       |          | 1123.50 | 1758.15 |
| 3/3/2021   | 6336.64               | 8918.76  | 6336.64 | 8918.76 |
| 3/10/2021  | 1580.58               | 1001.17  | 3958.61 | 4959.96 |
| 3/17/2021  | 3597.82               | 3304.91  | 3838.35 | 4408.28 |
| 3/24/2021  | 1025.67               | 719.96   | 3135.18 | 3486.20 |
| 3/31/2021  | 3163.18               | 4465.34  | 3140.78 | 3682.03 |
| 4/1/2021   | 322.26                | 202.16   | 1937.90 | 1938.71 |
| 4/7/2021   | 13792.75              | 1690.67  | 4380.34 | 2076.61 |
| 4/14/2021  | 4852.60               | 9229.27  | 4631.29 | 3261.48 |
| 4/21/2021  | 4933.18               | 2598.31  | 5412.79 | 3637.15 |
| 4/28/2021  | 3391.02               | 4104.35  | 5458.36 | 3564.95 |
| 5/5/2021   | 1573.41               | 6220.70  | 5708.59 | 4768.66 |
| 5/12/2021  | 2894.90               | 1150.94  | 3529.02 | 4660.71 |
| 5/19/2021  | 6079.52               | 4676.67  | 3774.41 | 3750.19 |
| 5/26/2021  | 3214.08               | 2145.23  | 3430.59 | 3659.58 |
| 6/2/2021   | 1675.51               | 8381.26  | 3087.48 | 4514.96 |
| 6/9/2021   | 6501.17               | 7909.25  | 4073.04 | 4852.67 |
| 6/16/2021  | 3855.99               | 2607.43  | 4265.25 | 5143.97 |
| 6/23/2021  | 6463.59               | 2651.43  | 4342.07 | 4738.92 |
| 6/30/2021  | 2349.33               | 2382.11  | 4169.12 | 4786.30 |
| 7/7/2021   | 4255.72               | 1453.29  | 4685.16 | 3400.70 |
| 7/14/2021  | 6936.31               | 3591.84  | 4772.19 | 2537.22 |
| 7/21/2021  | 6198.15               | 1724.32  | 5240.62 | 2360.60 |
| 7/28/2021  | 5066.98               | 1211.88  | 4961.30 | 2072.69 |
| 8/4/2021   | 4708.90               | 1143.14  | 5433.21 | 1824.89 |

|            |                       |          |         |         |
|------------|-----------------------|----------|---------|---------|
| 8/11/2021  | 3706.03               | 3286.68  | 5323.28 | 2191.57 |
| 8/18/2021  | 465.02                | 1571.16  | 4029.02 | 1787.43 |
| 8/25/2021  | 5620.35               | 1646.69  | 3913.46 | 1771.91 |
|            | BOD <sub>5</sub> Load | TSS Load | 3625.08 | 1911.92 |
| Date       | (lb/day)              | (lb/day) | 3263.80 | 2168.18 |
| 9/1/2021   | 3636.69               | 4502.15  | 3240.69 | 2573.33 |
| 9/8/2021   | 5821.47               | 1414.57  | 5026.17 | 2521.14 |
| 9/15/2021  | 3347.01               | 1710.23  | 4268.39 | 2542.32 |
| 9/22/2021  | 1371.44               | 905.20   | 3544.15 | 2133.04 |
| 9/29/2021  | 4378.21               | 1678.33  | 3710.96 | 2042.10 |
| 10/6/2021  | 1026.79               | 411.17   | 3188.99 | 1223.90 |
| 10/13/2021 | 2303.24               | 2234.17  | 2485.34 | 1387.82 |
| 10/20/2021 | 2146.33               | 1125.68  | 2245.20 | 1270.91 |
| 10/27/2021 | 2624.87               | 446.91   | 2495.89 | 1179.25 |
| 11/3/2021  | 2204.92               | 4270.48  | 2061.23 | 1697.68 |
| 11/10/2021 | 812.19                | 926.66   | 2018.31 | 1800.78 |
| 11/17/2021 | 3043.13               | 1642.76  | 2166.29 | 1682.50 |
| 11/24/2021 | 1798.26               | 1279.22  | 2096.67 | 1713.20 |
| 12/1/2021  | 5612.06               | 2307.05  | 2694.11 | 2085.23 |
| 12/8/2021  | 4494.75               | 1470.11  | 3152.08 | 1525.16 |
| 12/15/2021 | 8163.41               | 1418.02  | 4622.32 | 1623.43 |
| 12/22/2021 | 2730.11               | 7601.29  | 4559.72 | 2815.14 |
| 12/28/2021 | 3467.63               | 2239.81  | 4893.59 | 3007.26 |
| 1/5/2022   | 5582.79               | 1972.97  | 4887.74 | 2940.44 |
| 1/12/2022  | 5471.76               | 1936.83  | 5083.14 | 3033.78 |
| 1/19/2022  | 4757.85               | 11029.80 | 4402.03 | 4956.14 |
| 1/26/2022  | 1976.55               | 1224.90  | 4251.32 | 3680.86 |
| 2/2/2022   |                       |          | 4447.24 | 4041.13 |
| 2/9/2022   |                       |          | 4068.72 | 4730.51 |
| 2/16/2022  |                       |          | 3367.20 | 6127.35 |
| 2/23/2022  |                       |          | 1976.55 | 1224.90 |
| 3/2/2022   | 4103.26               | 2181.27  | 4103.26 | 2181.27 |
| 3/9/2022   | 1952.64               | 5666.00  | 3027.95 | 3923.64 |
| 3/16/2022  | 1997.25               | 1779.30  | 2684.39 | 3208.86 |
| 3/23/2022  | 547.66                | 449.01   | 2150.20 | 2518.90 |
| 3/30/2022  | 2385.62               | 1159.84  | 2197.29 | 2247.08 |
| 4/6/2022   | 719.05                | 2017.40  | 1520.44 | 2214.31 |
| 4/13/2022  | 625.38                | 419.90   | 1254.99 | 1165.09 |
| 4/20/2022  | 441.07                | 2701.44  | 943.76  | 1349.52 |
| 4/27/2022  | 5402.30               | 9014.35  | 1914.68 | 3062.58 |
| 5/4/2022   | 1338.33               | 10886.60 | 1705.23 | 5007.94 |
| 5/11/2022  | 2193.86               | 1826.45  | 2000.19 | 4969.75 |
| 5/18/2022  | 3060.33               | 2940.05  | 2487.18 | 5473.78 |
| 5/25/2022  | 4277.96               | 1435.96  | 3254.56 | 5220.68 |
| 6/1/2022   | 10163.90              | 6237.04  | 4206.88 | 4665.22 |
| 6/8/2022   | 6565.34               | 2790.73  | 5252.28 | 3046.05 |
| 6/15/2022  | 4885.44               | 3031.51  | 5790.59 | 3287.06 |

|            |                       |          |         |         |
|------------|-----------------------|----------|---------|---------|
| 6/22/2022  | 2377.34               | 2784.79  | 5654.00 | 3256.01 |
| 6/29/2022  | 1015.76               | 3516.92  | 5001.56 | 3672.20 |
|            | BOD <sub>5</sub> Load | TSS Load | 3710.97 | 3030.99 |
| Date       | (lb/day)              | (lb/day) | 2759.52 | 3111.07 |
| 7/6/2022   | 1630.69               | 8121.99  | 1674.60 | 4807.90 |
| 7/13/2022  | 2472.58               | 9710.27  | 1706.34 | 7116.39 |
| 7/20/2022  | 2604.30               | 3620.16  | 2235.86 | 7150.81 |
| 7/27/2022  | 2977.40               | 5787.59  | 2421.24 | 6810.00 |
| 8/3/2022   | 2164.75               | 1664.84  | 2369.94 | 5780.97 |
| 8/10/2022  | 3564.06               | 3519.60  | 2756.62 | 4860.49 |
| 8/17/2022  | 17876.82              | 14872.68 | 5837.47 | 5892.97 |
| 8/24/2022  | 2415.67               | 927.55   | 5799.74 | 5354.45 |
| 8/31/2022  | 2659.34               | 3518.50  | 5736.13 | 4900.63 |
| 9/7/2022   | 1895.29               | 1149.27  | 5682.24 | 4797.52 |
| 9/14/2022  | 4328.25               | 3424.92  | 5835.07 | 4778.59 |
| 9/21/2022  | 6322.60               | 4690.37  | 3524.23 | 2742.12 |
| 9/28/2022  | 3835.05               | 1297.54  | 3808.11 | 2816.12 |
| 10/5/2022  | 2865.02               | 2085.95  | 3849.24 | 2529.61 |
| 10/12/2022 | 3674.10               | 1411.54  | 4205.00 | 2582.06 |
| 10/19/2022 | 11766.63              | 3029.76  | 5692.68 | 2503.03 |
| 10/26/2022 | 682.02                | 1354.30  | 4564.56 | 1835.82 |
| 11/2/2022  | 5115.80               | 3999.96  | 4820.71 | 2376.30 |
| 11/9/2022  | 1673.78               | 1218.25  | 4582.47 | 2202.76 |
| 11/16/2022 | 10221.10              | 2806.41  | 5891.87 | 2481.74 |
| 11/23/2022 | 4256.56               | 2246.13  | 4389.85 | 2325.01 |
| 11/30/2022 | 4590.28               | 1667.35  | 5171.51 | 2387.62 |
| 12/7/2022  | 3488.69               | 3651.94  | 4846.08 | 2318.02 |
| 12/14/2022 | 1304.22               | 632.62   | 4772.17 | 2200.89 |
| 12/21/2022 | 2614.70               | 635.06   | 3250.89 | 1766.62 |
| 12/28/2022 | 2165.84               | 1420.65  | 2832.74 | 1601.52 |

|           |                       |          |         |         |
|-----------|-----------------------|----------|---------|---------|
|           | BOD <sub>5</sub> Load | TSS Load |         |         |
|           | (lb/day)              | (lb/day) |         |         |
| Averages: | 3915.22               | 3232.89  |         |         |
| Max:      | 17876.82              | 14872.68 | 6809.29 | 8918.76 |
| Minimum:  | 322.26                | 202.16   |         |         |

## **Appendix C – Population Projection Calculations**



**POPULATION PROJECTION  
CITY OF NEOSHO, MISSOURI**

| Year | Population | Increase/Decrease | Percent Change |
|------|------------|-------------------|----------------|
| 1960 | 7,452      | N/A               | N/A            |
| 1970 | 7,517      | 65                | 0.9            |
| 1980 | 9,493      | 1976              | 26.3           |
| 1990 | 9,254      | (239)             | (2.5)          |
| 2000 | 10,505     | 1251              | 13.5           |
| 2010 | 11,835     | 1330              | 12.7           |
| 2020 | 12,590     | 755               | 6.4            |

| Arithmetic Projection                    |        |                                            |
|------------------------------------------|--------|--------------------------------------------|
| Ka1                                      | 6.5    | $Ka1 = (P1970 - P1960) / 10 \text{ years}$ |
| Ka2                                      | 197.6  | $Ka2 = (P1980 - P1970) / 10 \text{ years}$ |
| Ka3                                      | (23.9) | $Ka3 = (P1990 - P1980) / 10 \text{ years}$ |
| Ka4                                      | 125.1  | $Ka4 = (P2000 - P1990) / 10 \text{ years}$ |
| Ka5                                      | 133.0  | $Ka5 = (P2010 - P2000) / 10 \text{ years}$ |
| Ka6                                      | 75.5   | $Ka6 = (P2020 - P2010) / 10 \text{ years}$ |
| Avg. Ka                                  | 85.6   |                                            |
| $P2043 = P2020 + (Avg. Ka)(2043 - 2020)$ |        |                                            |
| Projected 2043 Population                |        | 14,560                                     |

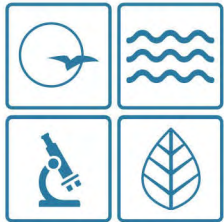
| Geometric Projection                             |           |                                                    |
|--------------------------------------------------|-----------|----------------------------------------------------|
| Kg1                                              | 0.00087   | $Kg1 = (\ln P1970 - \ln P1960) / 10 \text{ years}$ |
| Kg2                                              | 0.02334   | $Kg2 = (\ln P1980 - \ln P1970) / 10 \text{ years}$ |
| Kg3                                              | (0.00255) | $Kg3 = (\ln P1990 - \ln P1980) / 10 \text{ years}$ |
| Kg4                                              | 0.01268   | $Kg4 = (\ln P2000 - \ln P1990) / 10 \text{ years}$ |
| Kg5                                              | 0.01192   | $Kg5 = (\ln P2010 - \ln P2000) / 10 \text{ years}$ |
| Kg6                                              | 0.00618   | $Kg6 = (\ln P2020 - \ln P2010) / 10 \text{ years}$ |
| Avg. Ka                                          | 0.00874   |                                                    |
| $\ln P2043 = \ln P2020 + (Avg. Kg)(2043 - 2020)$ |           |                                                    |
| Projected 2043 Population                        |           | 15,393                                             |

| Average Annual Percent Increase Projection                     |                                    |
|----------------------------------------------------------------|------------------------------------|
| 0.09                                                           | Average Percent Change 1960 - 1970 |
| 2.63                                                           | Average Percent Change 1970 - 1980 |
| (0.25)                                                         | Average Percent Change 1980 - 1990 |
| 1.35                                                           | Average Percent Change 1990 - 2000 |
| 1.27                                                           | Average Percent Change 2000 - 2010 |
| 0.64                                                           | Average Percent Change 2010 - 2020 |
| 0.95                                                           | Average Annual % Change            |
| $P2043 = P2020(1 + Avg. Annual \% Change/100)^{(2043 - 2020)}$ |                                    |
| Projected 2043 Population                                      | 15,660                             |

| Average Decade Percent Increase Projection                           |                                    |
|----------------------------------------------------------------------|------------------------------------|
| 0.87                                                                 | Average Percent Change 1960 - 1970 |
| 26.29                                                                | Average Percent Change 1970 - 1980 |
| (2.52)                                                               | Average Percent Change 1980 - 1990 |
| 13.52                                                                | Average Percent Change 1990 - 2000 |
| 12.66                                                                | Average Percent Change 2000 - 2010 |
| 6.38                                                                 | Average Percent Change 2010 - 2020 |
| 9.53                                                                 | Average Annual % Change            |
| $P2043 = P2020(1 + Avg. Decennial \% Change/100)^{(2043 - 2020)/10}$ |                                    |
| Projected 2043 Population                                            | 15,523                             |

| Composite Projection for 2043              |        |
|--------------------------------------------|--------|
| Arithmetic Projection                      | 14,560 |
| Geometric Projection                       | 15,393 |
| Average Percent Increase Projection        | 15,660 |
| Average Decade Percent Increase Projection | 15,523 |
| Average Projected Year 2043 Population     | 15,284 |

## **Appendix D – MDNR Inspection Reports**



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

Michael L. Parson  
Governor

Dru Buntin  
Director

September 7, 2023

David Kennedy, City Manager  
City of Neosho  
203 East Main Street  
Neosho, MO 64850

**UNSATISFACTORY FINDINGS  
RESPONSE REQUIRED**

Dear David Kennedy:

On July 19, 2023, a team member from the Missouri Department of Natural Resources conducted an inspection of the Neosho Wastewater Treatment Plant, located on Old Scenic Drive 0.1 miles north of the Jefferson Avenue intersection, Neosho in Newton County. The entity operates under the authority of Missouri State Operating Permit MO0104906.

Compliance with Missouri Clean Water Law was evaluated. The enclosed report is being issued with Unsatisfactory Findings for the violations identified.

Please refer to the enclosed report for details on the findings and required actions. **A written response documenting actions taken to correct the violations is required by the date specified in the report.**

Fact sheets are available on the Department's website to assist entities with understanding and following environmental requirements.

If you have any questions or would like to schedule a time to meet with a Department team member to discuss compliance requirements, please contact Joshua Grosvenor, EI, by calling 417-891-4300, by email at [SWRO@dnr.mo.gov](mailto:SWRO@dnr.mo.gov), or via mail at Southwest Regional Office, 2040 W. Woodland, Springfield, Missouri 65807-5912.

Sincerely,

SOUTHWEST REGIONAL OFFICE -

**Randall Willoughby, CHMM**  
Water Pollution Section Chief

RDW/jgn

Enclosure

c: Ken Brady, Local Manager, Alliance Water Resources  
Jerry Humphrey, Pretreatment Inspector, Alliance Water Resources

mo0104906-neosho-wwtp-20230907-insp-uf-newton-cw



Carbon Copy Address Attachment

Include each individual identified in the carbon copy line that is not a MDNR team member in one of the groups below.

Physical Addresses:

Email Addresses: (for those that have indicated this is the preferred method of receipt)

Ken Brady  
kbrady@alliancewater.com

Jerry Humphrey  
shoalcreek@alliancewater.com

FAX Numbers: (for those that have indicated this is the preferred method of receipt)

# Compliance Summary

**Facility Name: Neosho WWTP**

**Permit Number: MO0104906**

**Inspection Date: July 19, 2023**

**This summary is intended to direct your attention to violations noted during the inspection of your facility.**

## **Violations noted during the inspection:**

1. A review of the Discharge Monitoring Reports (DMRs) from July 2021 to July 2023 shows violations of permitted limitations. Failure to comply with the effluent limits is a violation of the MSOP, MSOP MO0104906, Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.
2. An effluent sample collected by a Department team member on January 11, 2023, revealed a violation of permitted effluent limits as shown in the table in the Sampling and Monitoring Section of the Report. Failure to comply with permitted effluent limits is a violation of Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo, and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.

## **Actions necessary to return to compliance:**

1. You have provided a comment during the submittal of the eDMR for the exceedances that addressed the required response.
2. Submit a written response detailing actions to prevent any future occurrences.

Refer to the Unsatisfactory Findings section on pages 4 through 5 of the enclosed report for detailed information about these violations and how to correct them so your facility may be returned to compliance.

**We appreciate your prompt attention to these issues. If you have any questions, or if you would like to meet to discuss these violations further, please contact Joshua Grosvenor, EI, at our Southwest Regional Office at (417)891-4300 or at [swro@dnr.mo.gov](mailto:swro@dnr.mo.gov).**



**Missouri Department of Natural Resources  
Southwest Regional Office  
Report of Inspection  
Neosho WWTP  
Newton County  
MO0104906  
September 7, 2023**

## **Introduction**

On July 19, 2023, a routine compliance inspection of the Neosho WWTP in Newton County, Missouri was conducted by the Missouri Department of Natural Resources. The purpose of this inspection was to determine compliance with the Missouri State Operating Permit (MSOP) MO0104906, the Missouri Clean Water Commission Regulations, and the Missouri Clean Water Law. This report presents the findings and observations made during the compliance inspection. Authority for this inspection is provided in Missouri Clean Water Law 644.026.1(21), RSMo. The following participants were present during the inspection:

### Neosho WWTP

Ken Brady, Local Manager, Alliance Water Resources

Jerry Humphrey, Pretreatment Inspector, Alliance Water Resources

### Missouri Department of Natural Resources

Joshua Grosvenor, EI, Environmental Engineer

## **Entity Description and History**

The wastewater treatment facility is owned by the City of Neosho, located at 203 East Main Street. The City contracts with Alliance Water Resources, Inc., to operate the WWTP. The facility is composed of two separate facilities that were previously permitted separately, Neosho Crowder WWTP and Neosho Shoal Creek WWTP. All effluent from the Neosho Crowder WWTP is sent to the Neosho Shoal Creek WWTP, where flows are combined prior to ultraviolet disinfection. The Neosho Crowder WWTP consists of flow equalization, bar screen, pre-aeration basins, primary clarifiers, trickling filters, recirculation basin, secondary clarification, and aerobic sludge digesters. The Neosho Shoal Creek WWTP consists of flow equalization, bar screen, oxidation ditches, aerobic sludge digesters, aerated sludge holding, and ultraviolet disinfection. The system has a design flow capacity of six million gallons per day. Sludge is land applied. The collection system is composed of approximately six miles of force main, 120 miles of gravity mains, six lift stations, and 2,500 manholes. The discharge from this facility flows into Shoal Creek classified as a gaining setting. The discharge is located in the Spring Basin (11070207) HUC 8 watershed. The facility has a design population equivalent of 59,000. The facility is required to have a Class (A) operator. The UTM 83 coordinates for this facility's outfall are E 377523, N 4084102. The MSOP MO0104906 was last issued on May 1, 2017, and expired on April 30, 2022. An application for renewal has been received by the Department and is in the process of being renewed.

Our records indicate that the Department conducted the previous inspection of this facility on August 21, 2019. The previous inspection listed effluent limitation violations, failure to provide proper notification of violations, missing limit parameters, failure to provide properly signed I&I and sludge reports, operation and maintenance issues, failure to implement a Stormwater Pollution Prevention Plan, and failure to conform to required analytical and sampling methods failure to report a bypass. A Letter of Warning (LOW) was issued for the documented violations.

Sufficient responses were received on September 30 and October 10, 2019, and the facility was returned to compliance on November 25, 2019.

During the office portion of the inspection, I reviewed the facility's file and Department records. The facility is current on their annual permit fee. I reviewed the facility's Form S Annual Sludge Report and Discharge Monitoring Reports (DMRs). The previous year's Annual Sludge Report was received by the Department on February 1, 2023, prior to the February 19<sup>th</sup> deadline.

I conducted a review of the facility's DMRs submitted to this office from July 2021 to July 2023 reflect overall compliance with MSOP limits and reporting requirements. The facility submits DMRs through the Department's Electronic Discharge Monitoring Report (eDMR) system. The following tables include the effluent limit exceedances that occurred during this period:

| Outfall #001  |                            |                                                     |                 |
|---------------|----------------------------|-----------------------------------------------------|-----------------|
| REPORT PERIOD | PARAMETER                  | MSOP LIMIT                                          | REPORTED RESULT |
| December 2021 | Cadmium, Total Recoverable | 0.6 µg/L Daily Maximum<br>0.3 µg/L Monthly Average  | 0.41 µg/L       |
|               | Ammonia as N               | 11.9 mg/L Daily Maximum<br>2.2 mg/L Monthly Average | 7.3 mg/L        |

| Internal Monitoring Point #IP5 |                                    |                                |                 |
|--------------------------------|------------------------------------|--------------------------------|-----------------|
| REPORT PERIOD                  | PARAMETER                          | MSOP LIMIT                     | REPORTED RESULT |
| April 2022                     | BOD <sub>5</sub> , Percent Removal | 85% Monthly Average<br>Minimum | 77%             |
|                                | TSS, Percent Removal               | 85% Monthly Average<br>Minimum | 70%             |
| December 2022                  | TSS, Percent Removal               | 85% Monthly Average<br>Minimum | 71%             |

| Internal Monitoring Point #IP3 |                  |                                                   |                 |
|--------------------------------|------------------|---------------------------------------------------|-----------------|
| REPORT PERIOD                  | PARAMETER        | MSOP LIMIT                                        | REPORTED RESULT |
| January 2023                   | BOD <sub>5</sub> | 65 mg/L Weekly Average<br>45 mg/L Monthly Average | 111 mg/L        |

### Discussion of Inspection and Observations

The inspection was conducted during normal business hours. I contacted Ken Brady on July 11, 2023, to provide notification of the inspection to ensure timely access to the site.

I arrived at the facility at approximately 9:00 a.m., and met with Ken Brady and Jerry Humphrey, and outlined the statutory authority, purpose, and scope of the inspection. I was granted permission to access the site and was accompanied throughout the tour of the facility.

The laboratory procedures and operational tests were reviewed. The City had a quality assurance and quality control (QA/QC) program for the laboratory and applicable equipment is recertified annually.

We discussed any sanitary sewer overflows (SSO) in the collection system and bypasses at the treatment facility for the last two years. The City has reported three (3) SSOs in 2023, four (4) SSOs in 2022, and three (3) SSOs in 2021. The City had no reported bypasses at the treatment facility during the reviewed time period. The occurrences were all attributed to heavy rainfall events.

A review of the submitted annual inflow and infiltration (I&I) report, for the year 2022, indicated the City observed a total of 206 manholes and rehabbed one (1) brick manhole. A total of 2,100 feet of collection line was smoke tested, 7,599 feet were inspected by Closed-Circuit Television (CCTV) with 43,880 feet cleaned. The City has adopted a program for the maintenance and repair of the collection system as required.

I reviewed copies of their laboratory analysis records and compared those records to the data submitted by the facility to the Department. I did not observe any discrepancies in the records.

We conducted a tour of the Neosho WWTP. We began at the receiving station for hauled wastewater (Photo 1), all wastes that are hauled to the facility enter at this point. I observed the sludge/wastewater holding tank (Photo 2). Flow then passes through the bar screen (Photo 3). The rotors in the oxidation ditches were operational and appeared to be providing adequate mixing (Photos 4 & 5). One of the two final clarifiers was in operation (Photos 6 & 7), and the second final clarifier was drained and awaiting routine maintenance (Photos 8 & 9). Flow is measured with a Parshall flume and flow transducer (Photo 10). The combined flows are treated with ultraviolet disinfection (Photo 11), and the treatment tanks were operational at the time of inspection.

The sludge holding tanks are located west of the treatment facility (Photo 12). Pump trucks connect and pull from a transfer structure (Photo 13). The outfall is marked as required (Photo 14). The receiving stream (Photo 15), did not appear to be impacted from the discharge.

I then observed the eight million gallon peak flow basin (Photos 16 & 17). Water from this basin is pumped to the treatment facility via a connected pump station (Photo 18). The peak flow pump station has a generator backup that is exercised regularly (Photo 19).

I observed the Jay Drive lift station (Photos 20 - 22), the lift station is surrounded by a security fence and has an audio/visual alarm system. The Jay Drive lift station appeared to have an accumulation of debris that needs to be removed. I then observed the Quince Road lift station (Photos 23-25), the lift station is surrounded by a security fence and has an audio/visual alarm

system. All lift stations in the collection system are visually inspected daily and a log is kept at each lift station (Photo 26). I then observed a manhole located near the intersection of S Neosho Boulevard and W South Street (Photos 27 & 28), this manhole has the most SSO issues. Since 2021 there have been five (5) reported SSOs at this manhole location. It was stated that the interceptor line downstream of this manhole will fill during high rainfall events and cause flows to back up and overflow. The City is currently in the process of correcting this issue. It was stated that the collection system downstream of the manhole will have a higher flow during times of high I&I and cause the system to back up out of this manhole.

I conducted an exit meeting with Ken Brady and Jerry Humphrey and outlined the preliminary findings. I explained the observations and any associated violations. I also provided recommendations on returning any violations to compliance. The recommendations are in the section below. I thanked Brady and Humphrey for their time and cooperation and departed the facility at 2:00 p.m.

### Sampling and Monitoring

The Department's Environmental Services Program (ESP) team members conducted compliance sampling at the WWTF on January 10-11, 2023. The attached sample results reflect non-compliance with the effluent limits set forth in the MSOP, MO0104906. The following table includes the effluent limit exceedances that occurred during this sampling event:

| Internal Monitoring Point #IP3 |                                                   |                 |
|--------------------------------|---------------------------------------------------|-----------------|
| PARAMETER                      | MSOP LIMIT                                        | REPORTED RESULT |
| BOD <sub>5</sub>               | 65 mg/L Weekly Average<br>45 mg/L Monthly Average | 164 mg/L        |

### Compliance Determination, Violations, and Required Actions

Based on observations made at the time of the inspection, the facility was found to be out of compliance with the Missouri Clean Water Law, its implementing regulations, and MSOP MO0104906.

### Unsatisfactory Findings

Please submit your responses to the following violations **by October 10, 2023**, to the Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

1. A review of the Discharge Monitoring Reports (DMRs) from July 2021 to July 2023 shows violations of permitted limitations. Failure to comply with the effluent limits is a violation of the MSOP, MSOP MO0104906, Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.

**REQUIRED ACTION:** You have provided a comment during the submittal of the eDMR that addressed the required response.

2. An effluent sample collected by a Department team member on January 11, 2023, revealed a violation of permitted effluent limits as shown in the table in the Sampling and Monitoring Section of the Report. Failure to comply with permitted effluent limits is a violation of Missouri Clean Water Law Sections 644.051.1(3) and 644.076.1, RSMo, and Missouri Clean Water Commission Regulation 10 CSR 20-7.015.

**REQUIRED ACTION:** Submit a written response detailing actions to prevent any future occurrences.

### **Recommendations**

Please continue to evaluate and repair the collection system to reduce the inflow and infiltration.

The city is reminded to notify the department of all SSOs and bypasses within 24 hours and submit a written report within five (5) business days of the time the city becomes aware of an SSO or bypass as required in MSOP, MO0094854, Special Condition 12 and Standard Condition Part I, Section B. Bypasses and SSOs are to be reported to the department's Southwest Regional Office during normal business hours or by using the online SSOs and Bypass website at <http://dnr.mo.gov/modnrcag/> or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours.

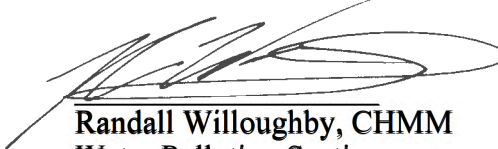
### **Signatures**

SUBMITTED BY:



Joshua Grosvenor, EI  
Environmental Engineer  
Southwest Regional Office

REVIEWED BY:



Randall Willoughby, CHMM  
Water Pollution Section  
Southwest Regional Office

### **Attachments**

Attachment # 1 - Photos 1 - 28  
Attachment # 2 – Aerial Maps  
Attachment # 3 – Results of Sample Analysis





Photo #: 1  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Receiving station for hauled wastewater.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 2  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Sludge/ wastewater holding tank.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 3  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Bar screen.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 4  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Oxidation Ditch  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 5  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Oxidation ditch, rotors providing aeration.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 6  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Operational clarifier.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 7  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Operational clarifier.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 8  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Clarifier, currently under repairs.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 9  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Clarifier, currently under repairs.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 10  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Parshall flume flow measurement.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 11  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Ultraviolet disinfection unit, functioning.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 12  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Sludge holding tank.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 13  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Hook up for sludge hauling trucks to load sludge.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 14  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Outfall sign.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 15  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Neosho Shoal Creek  
Description: Receiving stream, no observable impact from the discharge.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 16  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin, eight million gallons.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 17  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin, eight million gallons.  
Date Taken: July 19, 2023  
Media: WPCB

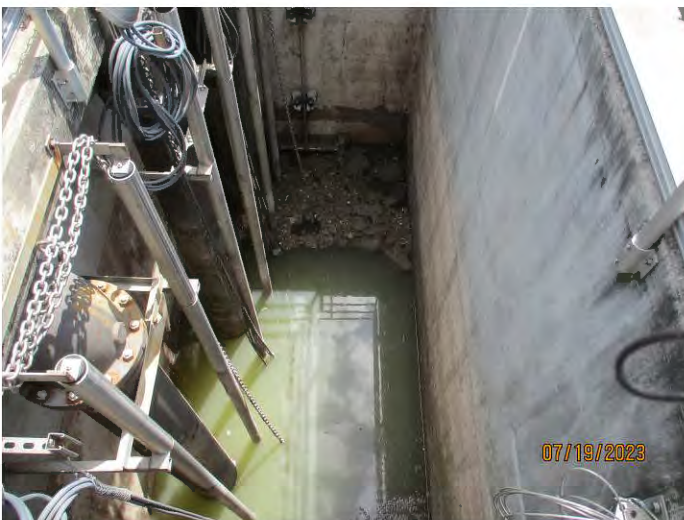


Photo #: 18  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin lift station.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 19  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Peak flow basin  
Description: Peak flow basin  
backup generators, exercised  
regularly.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 20  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Jay Drive Lift Station  
Description: Lift station surrounded  
by security fence.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 21  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Jay Drive Lift Station  
Description: Lift station control  
panel with inspection log visible.  
Date Taken: July 19, 2023  
Media: WPCB





Photo #: 22  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Jay Drive Lift Station  
Description: Lift station wet well.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 23  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Lift station surrounded by a security fence.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 24  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Control panel.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 25  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Lift station wet well.  
Date Taken: July 19, 2023  
Media: WPCB

| Quince Lift Station |       |            |         |          |            |
|---------------------|-------|------------|---------|----------|------------|
| Month: July         |       | Year: 2023 |         |          |            |
| Date                | Time  | Pump #1    | Pump #2 | Observed | Checked by |
| 1                   | 7:11  | 899.2      | 711.0   | ✓        | KG         |
| 2                   | 8:03  | 900.4      | 711.4   | ✓        | KG         |
| 3                   | 8:20  | 901.0      | 712.2   | ✓        | KG         |
| 4                   | 7:31  | 901.5      | 712.6   | ✓        | KG         |
| 5                   | 8:30  | 902.0      | 713.0   | ✓        | KG         |
| 6                   | 8:00  | 902.6      | 713.3   | ✓        | KG         |
| 7                   | 8:10  | 903.2      | 713.7   | ✓        | KG         |
| 8                   | 8:21  | 903.4      | 714.1   | ✓        | KG         |
| 9                   | 8:45  | 904.3      | 714.5   | ✓        | KG         |
| 10                  | 8:30  | 905.2      | 715.1   | ✓        | KG         |
| 11                  | 8:34  | 905.7      | 715.4   | ✓        | KG         |
| 12                  | 8:23  | 906.3      | 715.8   | ✓        | KG         |
| 13                  | 8:19  | 906.9      | 716.3   | ✓        | KG         |
| 14                  | 8:34  | 907.6      | 716.7   | ✓        | KG         |
| 15                  | 8:15  | 907.7      | 716.9   | ✓        | KG         |
| 16                  | 10:22 | 908.8      | 717.6   | ✓        | KG         |
| 17                  | 8:05  | 909.4      | 718.0   | ✓        | KG         |
| 18                  | 8:20  | 910.1      | 718.5   | ✓        | KG         |
| 19                  | 8:30  | 910.6      | 719.0   | ✓        | KG         |
| 20                  |       |            |         |          |            |
| 21                  |       |            |         |          |            |
| 22                  |       |            |         |          |            |
| 23                  |       |            |         |          |            |
| 24                  |       |            |         |          |            |
| 25                  |       |            |         |          |            |
| 26                  |       |            |         |          |            |
| 27                  |       |            |         |          |            |

Photo #: 26  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: Quince Road Lift Station  
Description: Example of the daily inspection log kept at each lift station.  
Date Taken: July 19, 2023  
Media: WPCB



Photo #: 27  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: S Neosho Boulevard and W South Street  
Description: Manhole with the greatest frequency of overflows, during high flow events.  
Date Taken: July 19, 2023  
Media: WPCB

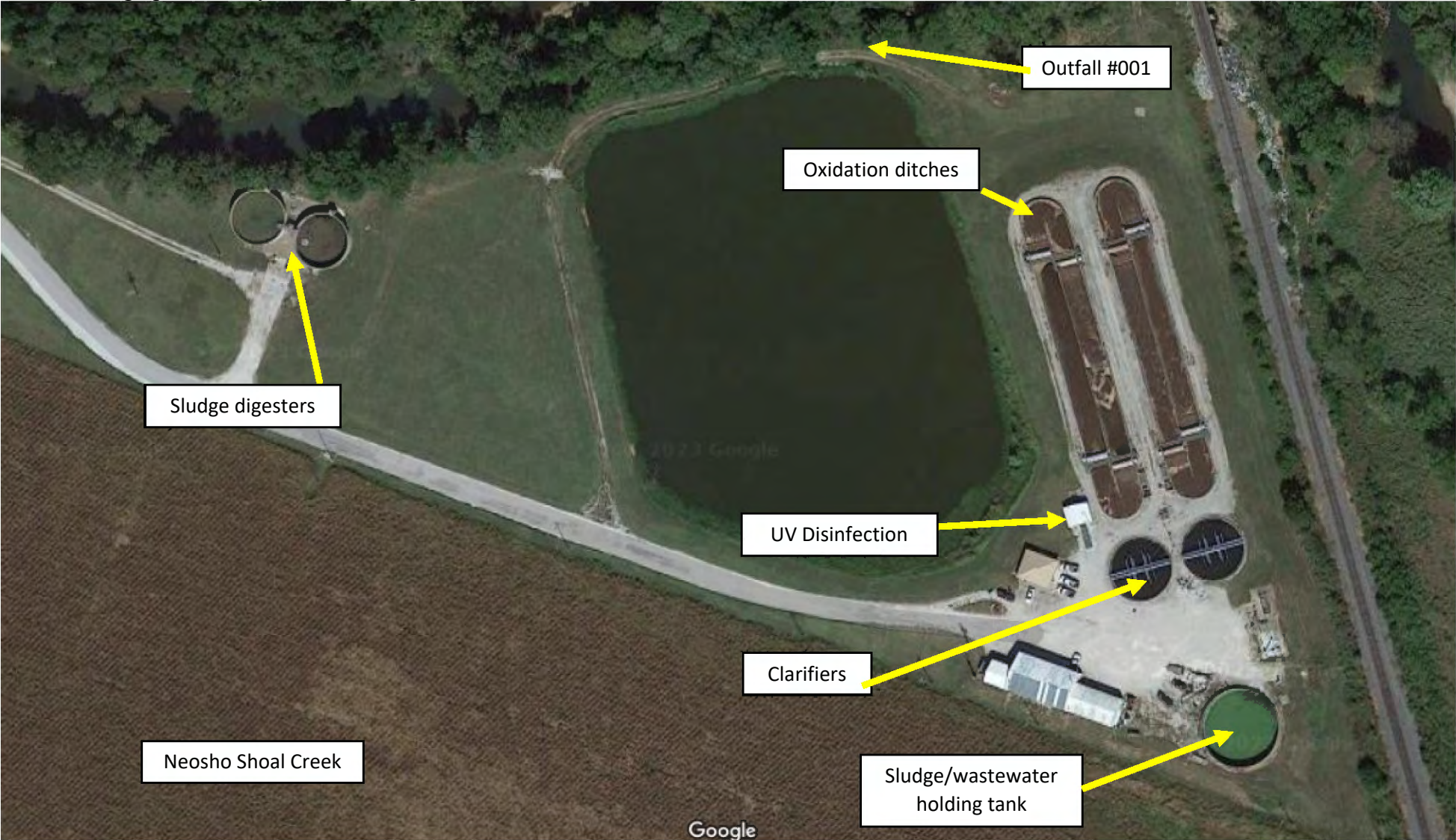




Photo #: 28  
Taken by: Joshua Grosvenor  
Entity: Neosho WWTP  
Permit: MO0104906  
Location: S Neosho Boulevard and  
W South Street  
Description: Manhole with the  
greatest frequency of overflows,  
during high flow events.  
Date Taken: July 19, 2023  
Media: WPCB

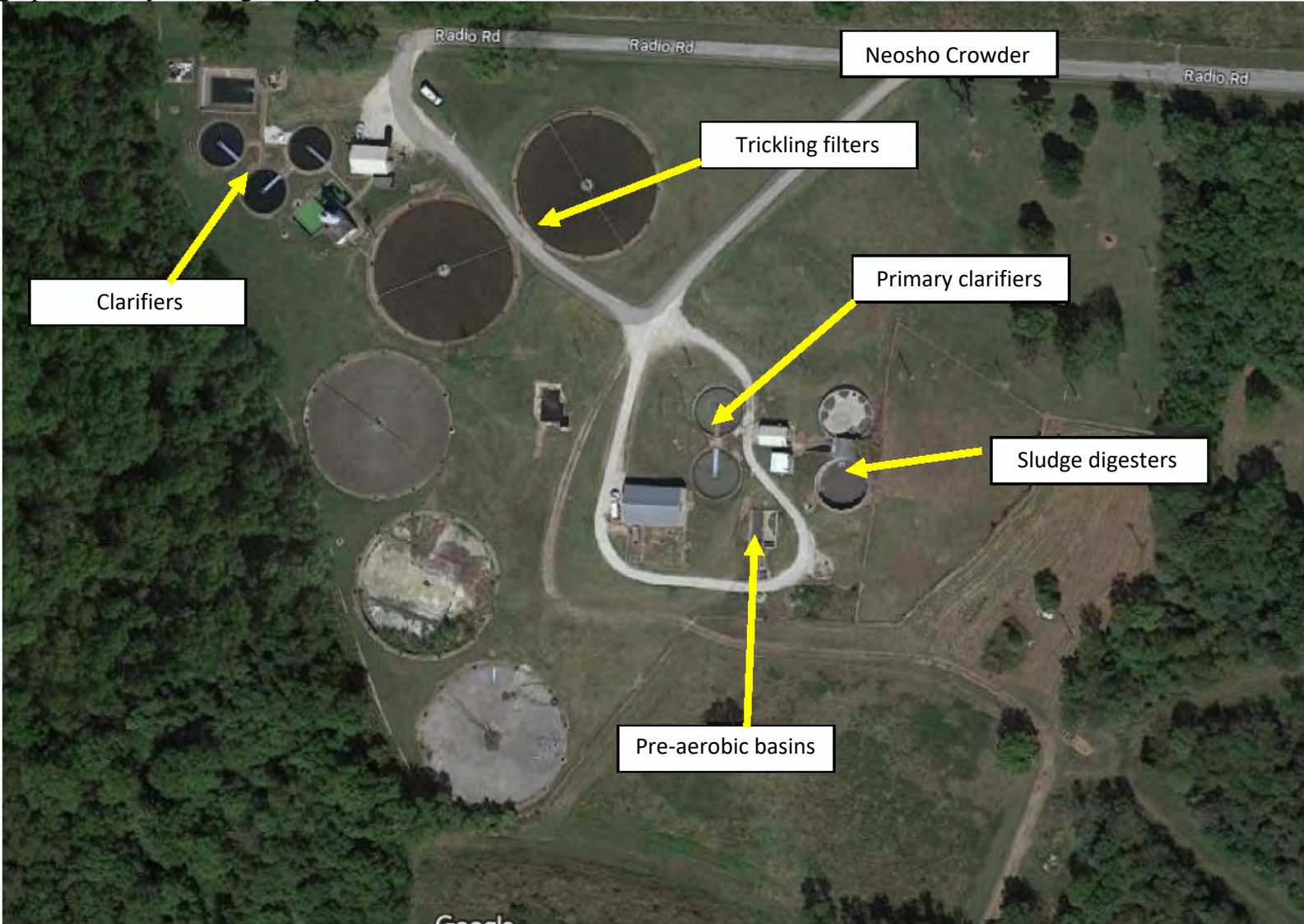


Aerial Photograph Courtesy of Google Maps.





Aerial Photograph Courtesy of Google Maps.



## **Appendix E – Sludge Hauling Cost Calculations**

Days Hauling

|                |     |
|----------------|-----|
| Loads per Year | 595 |
| Loads per Day  | 12  |
| Days per Year  | 50  |

Personnel

|                          |              |
|--------------------------|--------------|
| Personnel Rate (\$/Hr)   | \$ 18.00     |
| Personnel at 8 Hr/Day    | 2            |
| Personnel at 6 Hr/Day    | 1            |
| Personnel Cost (\$/Day)  | \$ 396.00    |
| Personnel Cost (\$/Year) | \$ 19,635.00 |

Power

| No. Pumps | HP | Hr/Day | kW-Hr/Day | \$/kW-Hr  | \$/Day       |
|-----------|----|--------|-----------|-----------|--------------|
|           | 1  | 5      | 4         | 14.914 \$ | 0.11 \$ 1.64 |
|           | 2  | 5      | 8         | 59.656 \$ | 0.11 \$ 6.56 |

|                      |           |
|----------------------|-----------|
| Power Cost (\$/Day)  | \$ 8.20   |
| Power Cost (\$/Year) | \$ 406.72 |

|                    |             |
|--------------------|-------------|
| Fuel Cost per Year | \$ 7,000.00 |
|--------------------|-------------|

Maintenance and Replacement

|                                            |               |
|--------------------------------------------|---------------|
| Tires (\$/Year)                            | \$ 4,000.00   |
| Oil (\$/Year)                              | \$ 1,000.00   |
| Repair Parts (\$/Year)                     | \$ 2,000.00   |
| Personnel Rate (\$/Hr)                     | \$ 18.00      |
| Maintenance (Hr/Year)                      | 50            |
| Maintenance (\$/Year)                      | \$ 900.00     |
| Truck Purchase Cost                        | \$ 160,000.00 |
| No. of Trucks                              | 2             |
| Truck Life                                 | 10            |
| Truck Salvage Value                        | \$ 30,000.00  |
| Truck Replacement (\$/Year)                | \$ 26,000.00  |
| Maintenance and Replacement Cost (\$/Year) | \$33,900      |

|                      |              |
|----------------------|--------------|
| Total Cost (\$/Year) | \$ 60,941.72 |
|----------------------|--------------|

## **Appendix F – City Financial Information**



## Wastewater

David Kennedy  
City Manager  
[d.kennedy@neoshomo.org](mailto:d.kennedy@neoshomo.org)

| Revenue Category     | FY2021 Actual       | FY2022 Adopted Budget | FY2022 Current YTD Actuals | FY2023 Proposed Budget |
|----------------------|---------------------|-----------------------|----------------------------|------------------------|
| Taxes                | -                   | -                     | -                          | -                      |
| Intergovernmental    | -                   | -                     | -                          | 5,000,000.00           |
| Licenses & Permits   | -                   | -                     | -                          | -                      |
| Charges for Services | 2,214,749.74        | 2,214,000.00          | 1,817,484.77               | 2,204,000.00           |
| Fines & Forefeitures | -                   | -                     | -                          | -                      |
| Miscellaneous        | -                   | 15,900.00             | 15,900.00                  | -                      |
| Other Sources        | 191,021.00          | 241,021.00            | 200,850.00                 | 241,021.00             |
| <b>Total</b>         | <b>2,405,770.74</b> | <b>2,470,921.00</b>   | <b>2,034,234.77</b>        | <b>7,445,021.00</b>    |
|                      | \$ 100,000.00       | \$ 150,000.00         | \$ 125,000.00              | \$ 150,000.00          |

| Expense Category              | FY2021 Actual       | FY2022 Adopted Budget | FY2022 Current YTD Actuals | FY2023 Proposed Budget |
|-------------------------------|---------------------|-----------------------|----------------------------|------------------------|
| Salaries, Benefits, & Support | -                   | -                     | -                          | -                      |
| Supplies & Materials          | 156.65              | 500.00                | 241.74                     | 500.00                 |
| Maintenance & Repair          | 31,488.09           | 58,000.00             | 28,237.77                  | 113,000.00             |
| Contractual Services          | 753,583.56          | 767,042.00            | 583,695.37                 | 1,089,271.00           |
| Utilities                     | 242,733.66          | 256,240.00            | 206,140.13                 | 263,070.00             |
| Other Expenses                | 9,803.18            | 642,051.35            | 21,080.41                  | 624,896.00             |
| Capital                       | -                   | 1,238,740.97          | 382,135.99                 | 6,598,114.00           |
| Other Uses                    | 191,021.00          | 241,021.00            | 200,850.00                 | 241,021.00             |
| Debt Service                  | -                   | -                     | -                          | -                      |
| <b>Total</b>                  | <b>1,228,786.14</b> | <b>3,203,595.32</b>   | <b>1,422,381.41</b>        | <b>8,929,872.00</b>    |
|                               | \$ -                | \$ -                  | \$ 0.00                    | \$ -                   |

### Highlights - Variances of 10% (FY2022 Projected/FY2023)

#### Increases:

**Insurance and Bonds-** Increase of property values 5.84% with additional Increase in property insurance 5.4% with additional 6% increase for FY23 Budget.

**Equipment Maintenance-**UV system \$30,000 and weir replacement \$40,000

**Fuel and Lubricants -** Increase for fuel cost

**Capital -** DNR ARPA Grant Application with cost share \$6,329,114

**Alliance Contract -** FY23 allocation based on dollars budgeted with CPI increase of 8.6%

#### Decreases:

**Revenue -** Pretreatment surcharge reduction based on current industrial customers

|                         | FY2021 Actual | FY2022 Adopted Budget | FY2022 Current Budget | FY2023 Proposed Budget |
|-------------------------|---------------|-----------------------|-----------------------|------------------------|
| Staffing Levels         |               |                       |                       |                        |
| No City FTEs            |               |                       |                       |                        |
| <b>DEPARTMENT TOTAL</b> | <b>0</b>      | <b>0</b>              | <b>0</b>              | <b>0</b>               |

## Wastewater

| Account                               | Account Name                  | FY2021<br>Actual       | FY2022<br>Budget       | As of<br>7/31/2022<br>Actual | Estimated<br>FY2022<br>Actual | Proposed<br>FY2023<br>Budget |
|---------------------------------------|-------------------------------|------------------------|------------------------|------------------------------|-------------------------------|------------------------------|
| <b>Wastewater Revenues</b>            |                               |                        |                        |                              |                               |                              |
| 500-610-3520-610                      | Pretreatment/Surcharge WW     | 82,497.75              | 80,000.00              | 64,899.67                    | 77,879.60                     | 70,000.00                    |
| 500-610-3590-610                      | Billings to Customers WW      | 2,130,726.99           | 2,132,000.00           | 1,750,140.10                 | 2,100,168.12                  | 2,131,000.00                 |
| 500-610-3610-610                      | Sewer Saddle Charges          | 1,525.00               | 2,000.00               | 2,445.00                     | 2,934.00                      | 3,000.00                     |
| 500-610-4200-610                      | DNR Grant                     | -                      | -                      | -                            | -                             | 5,000,000.00                 |
| 500-610-4760-610                      | Insurance Claims              | -                      | -                      | -                            | -                             | -                            |
| 500-610-4800-610                      | Wastewater Misc. Revenue      | -                      | -                      | -                            | -                             | -                            |
| 500-610-4820-610                      | Wastewater Sale of Property   | -                      | 15,900.00              | 15,900.00                    | 19,080.00                     | -                            |
| <b>Total Wastewater Revenues</b>      |                               | <b>\$ 2,214,749.74</b> | <b>\$ 2,229,900.00</b> | <b>\$ 1,833,384.77</b>       | <b>\$ 2,200,061.72</b>        | <b>\$ 7,204,000.00</b>       |
| <b>Wastewater Expenditures</b>        |                               |                        |                        |                              |                               |                              |
| 500-610-5010-610                      | Wastewater Salaries           | -                      | -                      | -                            | -                             | -                            |
| 500-610-5020-610                      | Wastewater Overtime           | -                      | -                      | -                            | -                             | -                            |
| 500-610-5070-610                      | Availability Allowance        | -                      | -                      | -                            | -                             | -                            |
| 500-610-5170-610                      | Wastewater Social Security    | -                      | -                      | -                            | -                             | -                            |
| 500-610-5180-610                      | Wastewater Retirement         | -                      | -                      | -                            | -                             | -                            |
| 500-610-5185-610                      | Pension Expense               | -                      | -                      | -                            | -                             | -                            |
| 500-610-5190-610                      | Wastewater Health Insurance   | -                      | -                      | -                            | -                             | -                            |
| 500-610-5210-610                      | Wastewater Workers Comp.      | -                      | -                      | -                            | -                             | -                            |
| 500-610-5250-610                      | Wastewater Rent Expense       | 9,700.00               | 9,700.00               | 7,275.33                     | 8,730.40                      | 9,700.00                     |
| 500-610-5260-610                      | Wastewater Prof. Services     | 28,435.56              | 71,600.00              | 21,700.53                    | 26,040.64                     | 71,600.00                    |
| 500-610-5300-610                      | Wastewater Insurance & Bonds  | 11,293.99              | 12,000.00              | 8,594.51                     | 10,313.41                     | 43,318.00                    |
| 500-610-5320-610                      | Wastewater Facility Maint.    | 5,076.51               | 20,000.00              | 8,044.42                     | 9,653.30                      | 20,000.00                    |
| 500-610-5330-610                      | Wastewater Equipment Maint.   | 24,642.84              | 35,000.00              | 19,432.04                    | 23,318.45                     | 90,000.00                    |
| 500-610-5530-610                      | Wastewater Fuels/Lubricants   | 103.18                 | 32,000.00              | 13,453.73                    | 16,144.48                     | 15,000.00                    |
| 500-610-5590-610                      | Wastewater General Supplies   | 156.65                 | 500.00                 | 241.74                       | 290.09                        | 500.00                       |
| 500-610-5620-610                      | Wastewater Line Repair        | 1,768.74               | 3,000.00               | 761.31                       | 913.57                        | 3,000.00                     |
| 500-610-5700-610                      | Wastewater Comp., Software    | -                      | 351.35                 | 351.35                       | 421.62                        | 196.00                       |
| 500-610-5780-610                      | WW Vehicle                    | -                      | -                      | -                            | -                             | 45,000.00                    |
| 500-610-5790-610                      | WW Capital Equipment          | -                      | 158,700.00             | 14,067.53                    | 158,700.00                    | 174,000.00                   |
| 500-610-5800-610                      | Alliance Contract             | 713,854.01             | 683,442.00             | 553,400.33                   | 664,080.40                    | 974,353.00                   |
| 500-610-5990-610                      | Depreciation                  | -                      | 600,000.00             | -                            | 600,000.00                    | 600,000.00                   |
| 500-610-6300-610                      | Wastewater Electricity        | 229,809.77             | 240,000.00             | 194,569.33                   | 233,483.20                    | 246,770.00                   |
| 500-610-6310-610                      | Wastewater Heating Fuels      | 3,747.84               | 7,000.00               | 3,900.63                     | 4,680.76                      | 7,000.00                     |
| 500-610-6350-610                      | Wastewater Phones             | 9,176.05               | 9,240.00               | 7,670.17                     | 9,204.20                      | 9,300.00                     |
| 500-610-6390-610                      | Wastewater Minor Equipment    | -                      | -                      | -                            | -                             | -                            |
| 500-610-5810-619                      | WW Line Capital Improvem      | -                      | 1,080,040.97           | 368,068.46                   | 1,080,040.97                  | 6,379,114.00                 |
| <b>Total Wastewater Expenditures</b>  |                               | <b>\$ 1,037,765.14</b> | <b>\$ 2,962,574.32</b> | <b>\$ 1,221,531.41</b>       | <b>\$ 2,846,015.47</b>        | <b>\$ 8,688,851.00</b>       |
| <b>Wastewater Other Sources</b>       |                               |                        |                        |                              |                               |                              |
| 500-000-3361-000                      | Transfer fm WW -Rplcmt Rsrv   | 91,021.00              | 91,021.00              | 75,850.00                    | 91,021.00                     | 91,021.00                    |
| 500-000-3363-000                      | Slip Lining Reserve           | 100,000.00             | 150,000.00             | 125,000.00                   | 150,000.00                    | 150,000.00                   |
| NEW                                   | Transfer fm ARPA              | -                      | -                      | -                            | -                             | 841,420.00                   |
| 500-000-3361-000                      | Transfer fm WW -Rplcmt Rsrv   | -                      | -                      | -                            | -                             | 487,695.00                   |
| <b>Total Wastewater Other Sources</b> |                               | <b>\$ 191,021.00</b>   | <b>\$ 241,021.00</b>   | <b>\$ 200,850.00</b>         | <b>\$ 241,021.00</b>          | <b>\$ 1,570,136.00</b>       |
| <b>Wastewater Other Uses</b>          |                               |                        |                        |                              |                               |                              |
| 500-000-3261-000                      | Transfer to WW Rplcmt Reserve | 91,021.00              | 91,021.00              | 75,850.00                    | 91,021.00                     | 91,021.00                    |
| 500-000-3263-000                      | Slip Lining Reserve           | 100,000.00             | 150,000.00             | 125,000.00                   | 150,000.00                    | 150,000.00                   |
| 0                                     |                               | 0                      |                        |                              |                               | -                            |
| <b>Total Wastewater Other Uses</b>    |                               | <b>\$ 191,021.00</b>   | <b>\$ 241,021.00</b>   | <b>\$ 200,850.00</b>         | <b>\$ 241,021.00</b>          | <b>\$ 241,021.00</b>         |
| <b>Change in Fund Balance</b>         |                               | <b>1,176,984.60</b>    | <b>(732,674.32)</b>    | <b>611,853.36</b>            | <b>(645,953.75)</b>           | <b>(155,736.00)</b>          |

# Wastewater

## Wastewater Revenues

|                  |                             |
|------------------|-----------------------------|
| 500-610-3520-610 | Pretreatment/Surcharge WW   |
| 500-610-3590-610 | Billings to Customers WW    |
| 500-610-3610-610 | Sewer Saddle Charges        |
| 500-610-4200-610 | DNR Grant                   |
| 500-610-4760-610 | Insurance Claims            |
| 500-610-4800-610 | Wastewater Misc. Revenue    |
| 500-610-4820-610 | Wastewater Sale of Property |

| Department Request |                                        |
|--------------------|----------------------------------------|
| Amount             | Justification & Supporting Information |
| 70,000.00          |                                        |
| 2,131,000.00       |                                        |
| 3,000.00           | cost coverage                          |
| 5,000,000.00       | DNR - ARPA Grant revenue               |
|                    |                                        |
|                    |                                        |
|                    | MIRMA grant???????                     |
|                    |                                        |
| 7,204,000.00       |                                        |

## Wastewater Expenditures

|                  |                              |
|------------------|------------------------------|
| 500-610-5250-610 | Wastewater Rent Expense      |
| 500-610-5260-610 | Wastewater Prof. Services    |
| 500-610-5300-610 | Wastewater Insurance & Bonds |
| 500-610-5320-610 | Wastewater Facility Maint.   |
| 500-610-5330-610 | Wastewater Equipment Maint.  |
| 500-610-5530-610 | Wastewater Fuels/Lubricants  |
| 500-610-5590-610 | Wastewater General Supplies  |
| 500-610-5620-610 | Wastewater Line Repair       |
| 500-610-5700-610 | Wastewater Comp., Software   |
| 500-610-5780-610 | WW Vehicle                   |
| 500-610-5790-610 | WW Capital Equipment         |
| 500-610-5800-610 | Alliance Contract            |
| 500-610-5990-610 | Depreciation                 |
| 500-610-6300-610 | Wastewater Electricity       |
| 500-610-6310-610 | Wastewater Heating Fuels     |
| 500-610-6350-610 | Wastewater Phones            |
| 500-610-6390-610 | Wastewater Minor Equipment   |
| 500-610-5810-619 | WW Line Capital Improvemnt   |

| Amount       | Justification & Supporting Information                                                                                                                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9,700.00     |                                                                                                                                                                                                         |
| 71,600.00    | Future Growth Engineering for WW Plant Study \$60,000, Stronghold \$1800, PACE \$4500, Inspections \$2000, Security \$200, Locates \$3000, AED Maintenance \$100                                        |
| 43,318.00    | Property Ins incl 6%                                                                                                                                                                                    |
| \$20,000     |                                                                                                                                                                                                         |
| 90,000.00    | UV system maintenance \$30,000 Sludge truck tires \$5000 Crowder WWTP flow meter \$15000 Shoal Creek WWTP clarifier weir replacement \$40,000                                                           |
| 15,000.00    |                                                                                                                                                                                                         |
| 500.00       |                                                                                                                                                                                                         |
| 3,000.00     | Sewer Saddles                                                                                                                                                                                           |
| 196.00       | Firewall \$196                                                                                                                                                                                          |
| 45,000.00    | 1/2 ton Plant Truck                                                                                                                                                                                     |
| 174,000.00   | Influent pump replace/rebuild \$45,000 lift station repairs/upgrades \$15,000 72" zero-turn mower-WW \$19,000 Collection system portable push inspection camera \$55,000, shop roof insulation \$40,000 |
| 974,353.00   | updated to include 8.6% CPI                                                                                                                                                                             |
| 600,000.00   |                                                                                                                                                                                                         |
| 246,770.00   | 7.38% over actual FY21 -due to increase from recent rate case                                                                                                                                           |
| 7,000.00     | WW Shop heater propane                                                                                                                                                                                  |
| 9,300.00     |                                                                                                                                                                                                         |
| 6,379,114.00 | WW project DNR ARPA Cost Share \$6,329,113.94, 20 manhole rehabilitation \$50,000                                                                                                                       |
|              |                                                                                                                                                                                                         |
| 8,688,851.00 |                                                                                                                                                                                                         |

## Wastewater Other Sources

|                  |                             |
|------------------|-----------------------------|
| 500-000-3361-000 | Transfer fm WW -Rplcmt Rsrv |
| 500-000-3363-000 | Slip Lining Reserve         |
| NEW              | Transfer fm ARPA            |
| 500-000-3361-000 | Transfer fm WW -Rplcmt Rsrv |

| Amount     | Justification & Supporting Information                                                    |
|------------|-------------------------------------------------------------------------------------------|
| 91,021.00  |                                                                                           |
| 150,000.00 | \$300,000 every two years for slip lining-reduced by 108,000 Visu Sewer FY22 Change order |
| 841,420.00 | ARPA transfer for cost share DNR grant                                                    |
| 487,695.00 | City share of DNR grant                                                                   |
|            |                                                                                           |

## Wastewater Other Uses

|                  |                               |
|------------------|-------------------------------|
| 500-000-3261-000 | Transfer to WW Rplcmt Reserve |
| 500-000-3263-000 | Slip Lining Reserve           |

| Amount     | Justification & Supporting Information                                                    |
|------------|-------------------------------------------------------------------------------------------|
| 91,021.00  |                                                                                           |
| 150,000.00 | \$300,000 every two years for slip lining-reduced by 108,000 Visu Sewer FY22 Change order |
|            |                                                                                           |

# Playground Stencils

## Encourage Active Outdoor Play

Available for loan to Missouri child care facilities, schools, parks and local public health agencies — no charge!

Painted playground designs are inexpensive and safe!

Children learn letters, numbers, colors, shapes, pathways and sequences while being physically active. They have fun as they practice agility, stretching, balance, eye/foot coordination and locomotor movement skills.



### You must have:

- ♦ A clean, paved play surface
- ♦ Ability to provide paint and other supplies
- ♦ People to do the painting
- ♦ Permission to paint from property owner

### We provide:

- ♦ Several stencil designs to choose from
- ♦ Instructions for painting

More information on our webpage: [www.health.mo.gov/playgroundstencils](http://www.health.mo.gov/playgroundstencils)

- ⇒ Complete list of available stencils
- ⇒ Stencil request form
- ⇒ Painting instructions

### To borrow stencils:

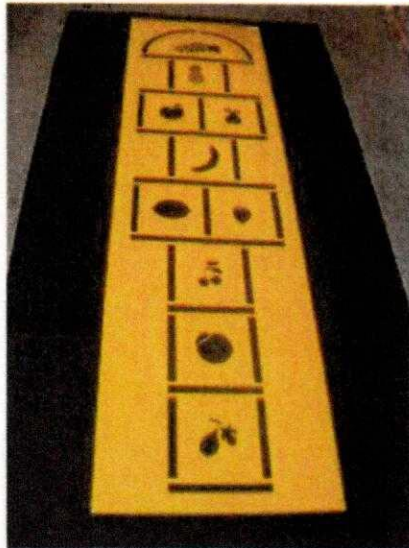
Fill out a stencil request form  
found on our webpage



Missouri Department of Health and Senior Services  
Bureau of Community Health and Wellness  
573-522-2820



## PLAYGROUND STENCILS AVAILABLE



### CHOOSE FRUIT HOPSCOTCH -

A variation of the traditional hopscotch that allows children to become familiar with fruit

Size: 3'x14'

DHSS Warehouse #11240

### DINOSAUR HOPSCOTCH -

This game enables children to learn the alphabet and to spell words

Size: 7'x16'

DHSS Warehouse #11254



### SNAKE HOPSCOTCH -

This game allows children to learn how to jump on one foot, gain their balance and recognize the order of the alphabet

Size: 4'x21'

DHSS Warehouse #11255





### **HUMAN FOOTPRINTS**

Footprints can be laid out in any fashion to create a trail to follow

3 Pieces (all the same) – 1' x 4'

DHSS Warehouse #11273

### **SNAIL HOPSCOTCH -**

Players move through the squares claiming them as their own, making it more difficult for others to complete

Size: 7'x 8'

DHSS Warehouse #11276



### **SILLY SHOES -**

Children move along the foot print from start to end using methods such as sliding, hopping, etc.

Size: 9' x 13'

DHSS Warehouse #11277



### **HOPSCOTCH WITH HOME –**

The traditional game about throwing, hopping, and not falling over

Size: 3' x 14'

DHSS Warehouse #11278

### **FIND THE CORRECT PATH GAME -**

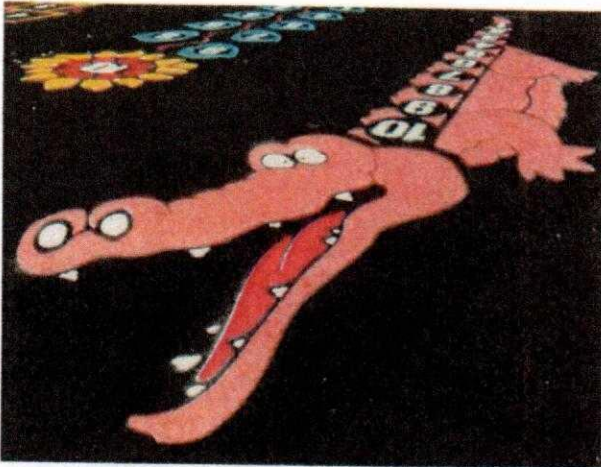
Each child stands on a shape and will walk or race on the line that takes them to the correct shape on the opposite side

Size: 7' x 15'

DHSS Warehouse #11279







### **CROCODILE HOPSCOTCH -**

A variation of traditional game where children can pretend to be jumping on the crocodile's back

Size: 5' x 18'

DHSS Warehouse #11281

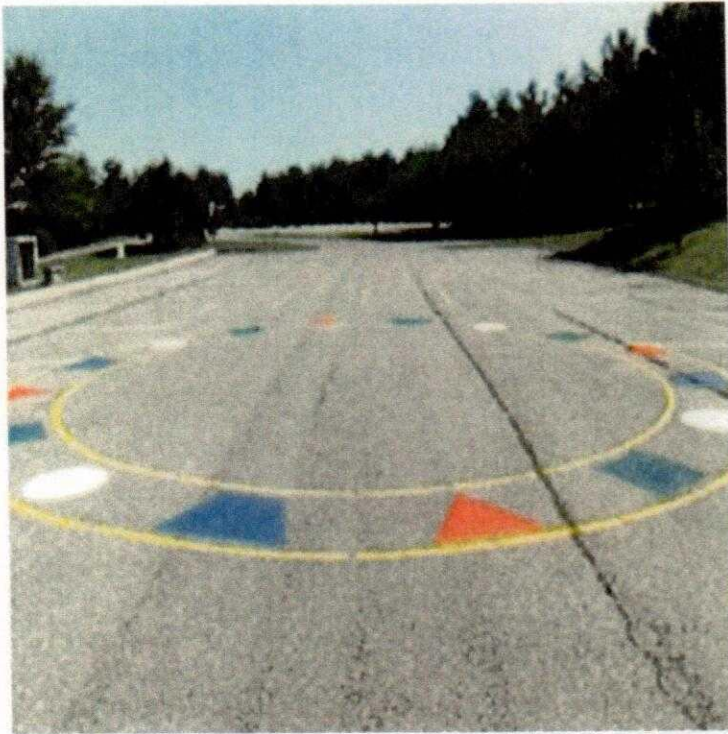


### **FOOTPRINTS #2 -**

Human, Lion, Beaver, Goose: Foot prints can be laid out in any fashion to create a trail to follow

Size: Varies, not bigger than 1' x 5'

DHSS Warehouse #11285

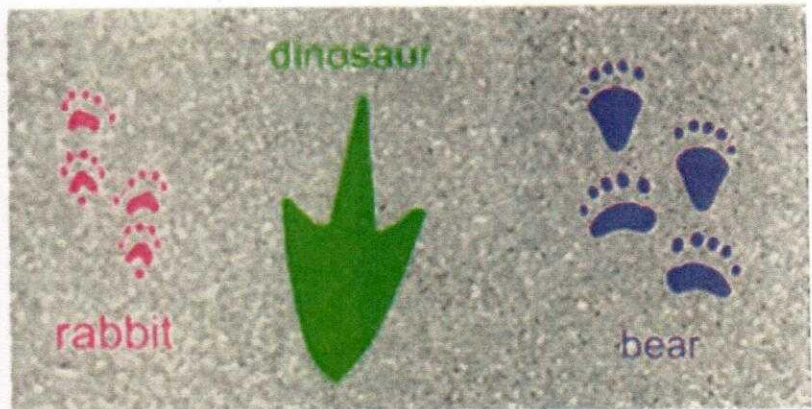


### **GIANT SHAPE CIRCLE-**

Can be used to play any number of games that require children to stand in a circle

Size: 30' x 30'

DHSS Warehouse #11286



### **FOOTPRINTS #1 -**

**Human, Rabbit, Dinosaur, Bear.** Foot prints can be laid out in any fashion to create a trail to follow

Size: Varies, not bigger than 1' x 4'

DHSS Warehouse #11288

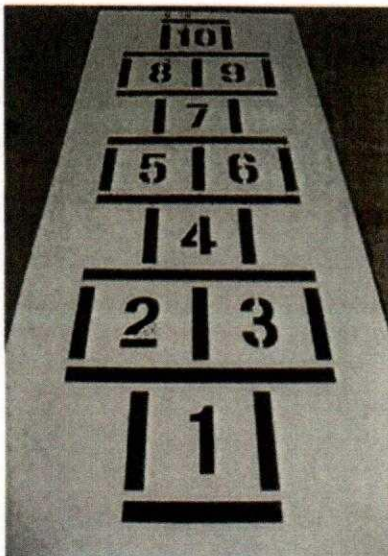
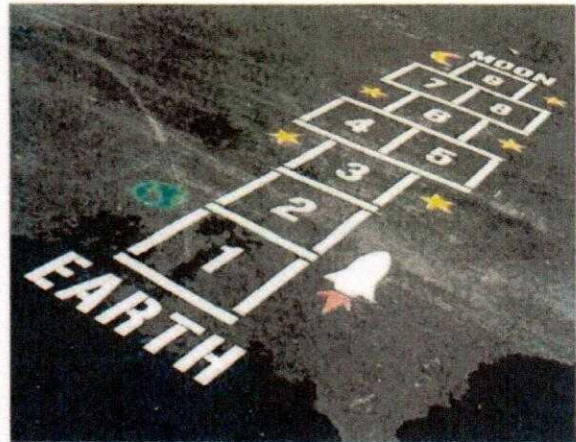


### ROCKET HOPSCOTCH -

Children can pretend they are taking a rocket ship to the moon and back in this variation of the traditional hopscotch

Size: 4x14'

DHSS Warehouse #11433



### BLOCKS HOPSCOTCH -

A variation of the traditional hopscotch

Size: 3' x 9'4"

DHSS Warehouse #11436

### NUMBER SWIRL -

This is an excellent beginner game for young children as they learn how to jump on one foot, gain their balance and recognize the order of elementary numbers

Size: 3' x 18'

DHSS Warehouse #11438







### **SHAPES SWIRL -**

Children learn basic shapes while following a swirl pattern

Size: 3' x 21'

DHSS Warehouse #11441

### **PIRATE'S TREASURE MAP -**

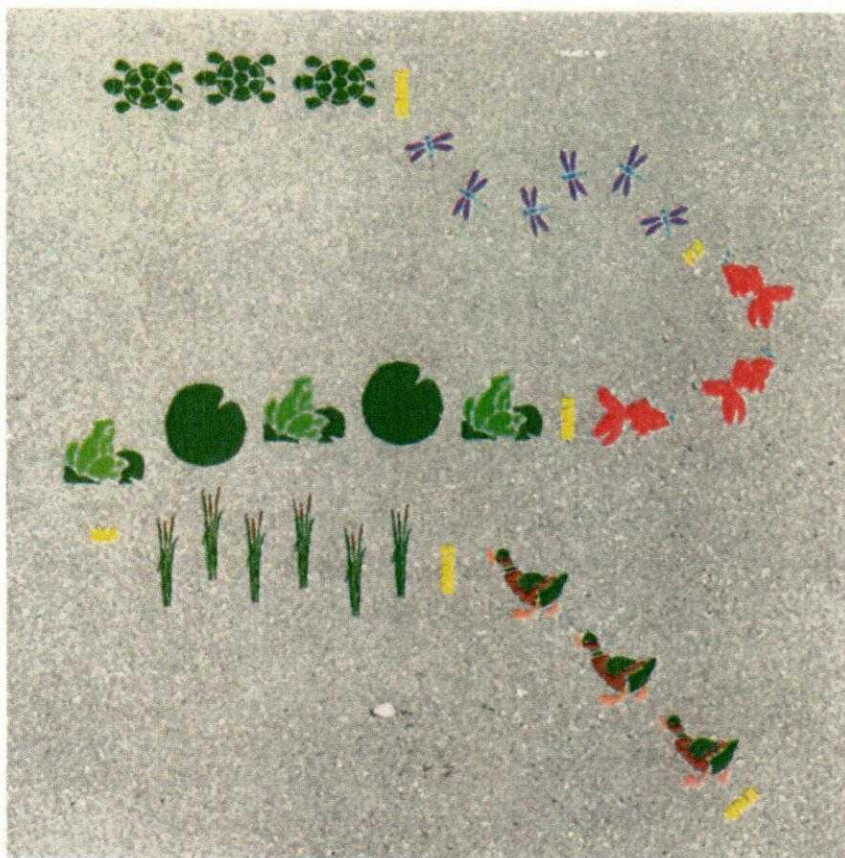
A game of imagination and activity; as a pirate, the children swim, walk, climb, cross, hop and step through the map.

Size: 25' x 25'

or get creative to make your own map in different lengths/widths



DHSS Warehouse #11445



### **PLAYGROUND POND -**

A game of imagination and activity; at each stage of the game the children pretend to be the animal doing the movements laid out in the pond

Size: 25' x 25' or get creative to make your own design in different lengths/ widths

DHSS Warehouse #11447



## PLAYGROUND STENCIL PAINTING INSTRUCTIONS

### ***Advance Preparation***

1. Choose your location. Choose a smooth asphalt or concrete surface. Measure to make sure your designs will fit. Avoid areas near heavy dirt and sand. Leave enough space between stencil designs and other playground equipment to allow children to move safely.
2. Choose your painting day. Check the weather and choose a day that should be dry, not too windy and not extremely hot or cold.
3. Prepare surface. Clean surface to remove rocks, dirt and other debris. Power washing is recommended.
4. Collect supplies needed.
  - **Paint-** Ask your paint store to recommend the best paint for your surface. Special asphalt or curb marking paint is normally used. Bright primary colors and white stand out the most.
  - **Paintbrushes-** 1 to 3 inch brushes. Do not use expensive brushes for this project.
  - **Paint cups-** Save disposable plastic containers for mixing.
  - **Paint station-** Tarp, old sheet or cardboard. All paint should be poured and mixed at this station to contain spills.
  - **Thick masking tape-** to tape down stencils.
  - **Chalk-** to outline stencils or draw free-hand designs.
  - **Weights-** Rocks, bricks, etc. to hold down stencils on windy days.
  - **Clean up supplies-** Old rags and paper towels. Water or paint thinner depending on the kind of paint used.

### ***Paint Day***

1. Lay stencils out on surface, making sure all pieces are put together in the right order. Use masking tape to hold pieces together.
2. Plan colors for each part of the design. Simple is better. Too many colors can be overwhelming.
3. Two methods for painting:
  - a. The **preferred method** is to draw outline of stencils with chalk, then remove stencils and paint within the chalk lines. This keeps the stencils clean and there is less risk of them blowing away. This method also results in smoother lines.
  - b. Secure stencils with tape and weights, then paint along the stencil. Check often to make sure the paint is not bleeding past the stencil outline. This method can result in smeared edges.

Use a 1 or 2 inch brush to paint the outline of the shape first. Then fill in shape using the same brush or a 3 inch brush. Paint at least 2 thin coats and allow to dry between coats. If the paint goes on too thick, it may peel later.

4. Allow paint to dry for 24 hours before use.
5. Remove masking tape and wipe down stencils with a wet rag to remove excess paint. Do not use paint thinner on stencils.
6. Make sure stencils are dry before placing back in the bag.

#### **Maintenance**

1. Sweep or hose down the playground regularly to minimize dirt and debris, which wears down the paint more quickly.
2. Save the extra paint and touch up on an annual basis or as needed.

#### ***Design Tip***

*Be creative and paint lines and curves to make tracks for children to follow.*

*Or cut your own stencil designs out of cardboard!*



## Playground Stencil Request Form

### Borrower Information:

|                        |  |
|------------------------|--|
| Date of Request        |  |
| Organization Name      |  |
| Street Address         |  |
| City and Zip           |  |
| County                 |  |
| Name of Contact Person |  |
| Phone Number           |  |
| Email                  |  |

Please mark below up to 3 stencils you want to borrow. Number your 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> choice. You may receive all 3 if they are available.

|                                  |                                 |                                |
|----------------------------------|---------------------------------|--------------------------------|
| Choose Fruit Hopscotch<br>#11240 | Hopscotch with Home<br>#11278   | Rocket Hopscotch<br>#11433     |
| Dinosaur Hopscotch<br>#11254     | Find the Correct Path<br>#11279 | Blocks Hopscotch<br>#11436     |
| Snake Hopscotch<br>#11255        | Crocodile Hopscotch<br>#11281   | Number Swirl<br>#11438         |
| Human footprints<br>#11273       | Footprints #2<br>#11285         | Shapes Swirl<br>#11441         |
| Snail Hopscotch<br>#11276        | Giant Shape Circle<br>#11286    | Pirates Treasure Map<br>#11445 |
| Silly Shoes<br>#11277            | Footprints #1<br>#11288         | Playground Pond<br>#11447      |

Please e-mail this request form to:  
[WorksiteWellness@health.mo.gov](mailto:WorksiteWellness@health.mo.gov)

Questions?  
Call 573-522-2820