

June 16, 2020

**WATER PROTECTION PROGRAM
FINDING OF NO SIGNIFICANT IMPACT/ENVIRONMENTAL ASSESSMENT**

TO: ALL INTERESTED GOVERNMENT AGENCIES AND PUBLIC GROUPS

In accordance with procedures for environmental review found at 10 CSR 20-4.050, a review has been performed on the proposed action below:

Project Identification: Rocky Mount Sewer District Collection System

Applicant: Rocky Mount Sewer District

Project No.: C295838-01

City: Rocky Mount

County: Morgan

State: Missouri

Total Project Amount: \$4,296,400

Potential Loan: \$2,296,400

Total Eligible: \$4,296,400

Potential Grant: \$2,000,000

COMMUNITY DESCRIPTION:

Location: The Rocky Mount Sewer District is located in southeastern Morgan County along the Lake of the Ozarks.

Population, Present and Projected, and Design Year: There is no specific census information for the Rocky Mount Sewer District; however, the population of the district can be extrapolated from the census information for Morgan County. The population of Morgan County in the year 2010 was 20,565, an increase of 6 percent from the 2000 census. The current population estimate for the district is 750 and by 2039 the population is projected to be 1,250.

Current Methods of Waste Treatment: The collection system is made up of gravity sewers and manholes, septic tank effluent pressure (STEP) sewers, and pressure sewers with grinder pumps. The existing treatment plant includes a bar screen, grit removal, flow equalization, extended aeration, tertiary filtration, ultraviolet disinfection, and sludge disposal by a contracted hauler. The system design flow is 75,000 gallons per day with a design sludge production of 15.75 dry tons/year.

PROJECT DESCRIPTION:

Purpose and Need: The collection system portion of the project will eliminate failing septic tanks/soil absorption systems and create a centralized system, protecting the environment and public health.

Description of Project: The district is proposing a low-pressure pipe collection system utilizing grinder pumps, including all necessary appurtenances to complete the project.

Design Factors: The collection system project will consist of approximately 29,300 feet of forcemain, 115 individual grinder pump stations, and will serve 180 new customers. The design will comply with 10 CSR 20-8.

Receiving Stream: The receiving stream is an Unnamed Tributary to Lick Branch, which discharges into the Lake of the Ozarks in less than 1 mile.

ALTERNATIVES CONSIDERED:

Collection Systems:

Not Selected – Alternative No. 1 Gravity Collection System: The estimated capital cost is \$2,107,300 with a present worth of \$2,682,000. This alternative would use gravity sewers and manholes where possible and grinder pumps and forcemains when not possible. Advantages of this alternative are the lack of mechanical devices necessary to make it work and the skill local contractors have with installing gravity sewer lines. A disadvantage of this alternative is that gravity sewer lines can develop more inflow and infiltration problems than other alternatives.

Not Selected – Alternative No. 2 Small Diameter Gravity: The capital cost is estimated to be \$2,005,300 with a present worth of \$2,602,000. This alternative would use smaller diameter gravity lines and clean-outs with wastewater access chambers and small duplex lift stations. This alternative would eliminate most solids from entering the collection system. A disadvantage of this alternative is the difficulty of constructing small diameter lines on a constant grade without the help of manholes when changing slope or direction. These lines also tend to develop inflow and infiltration problems similar to conventional gravity systems.

Selected – Alternative No. 3 Pressure System: The capital cost of Alternative No. 4 would be \$2,025,300 with a present worth of \$2,553,000. This alternative consists of forcemains and grinder pump stations to transfer the wastewater. This alternative does have a higher cost of replacement. The alternative is easy to construct and the district has used this type of collection system in the past with positive results.

Not Selected – Alternative No. 4 STEP System: The estimated capital cost is \$2,140,300 with a present worth of \$2,677,000. This alternative consists of septic tanks and focemains that transfer the septic tank effluent to the treatment plant. The tanks would be difficult to install at some locations in the district. Septic tanks reduce the biological oxygen demand delivered to the treatment plant. This can hinder the biological treatment at the plant.

REASONS FOR SELECTION OF PROPOSED ALTERNATIVE:

Collection System Alternative No. 3 was determined to be the most cost effective, practical, and feasible.

ENVIRONMENTAL IMPACT SUMMARY:

1. Primary:
 - a. Construction: Blowing dust, temporary surface disruption, and noise from construction equipment will occur during construction, but these impacts are expected to be minor and temporary in nature.
 - b. Environmental: This project is beneficial to the environment because it is eliminating potential health hazards from failing septic tanks with the collection system portion of the project.
 - c. Financial: The estimated user charge based upon a residence using 5,000 gallons per month is \$59.35
2. Secondary:
 - a. Population Impacts: No significant change in population trends is expected to result in this project. No significant relocation of people or structures shall result from this project.
 - b. Land use and Trends: No significant change in land use trends is expected to result from this project. No development of sensitive areas is anticipated.
 - c. Environmental: Secondary environmental impacts caused by this project are not expected to be significant.
3. Mitigation Measures Necessary to Eliminate Adverse Environmental Effects: Noise, blowing dust, and erosion normally associated with construction should be minimized by Best Management Practices and good engineering practices. Restoration of disturbed areas will be promptly accomplished. Any debris, such as construction waste, trees or brush, will be disposed of properly.

4. Irreversible and Irretrievable Commitment of Resources: Fuel and construction materials will be irretrievably committed to this project. Future funds will be committed to the operation and maintenance of the system.

PUBLIC PARTICIPATION:

1. Public Involvement: A public hearing was held on July 24, 2019, at the Rocky Mount Lions Club/Community Center Building, in the City of Rocky Mount, Missouri.
2. Public Opposition or Opinions: No adverse opinions to the project were expressed.

COORDINATION AND DOCUMENTATION WITH OTHER AGENCIES AND SPECIAL INTEREST GROUPS:

1. Facility Plan Dated: January 17, 2019
Prepared By: Shoreline Surveying & Engineering, LLC.
2. Federal: USFWS Corps of Engineers
3. State:
 - a. Missouri Department of Natural Resources – State Historic Preservation Office
 - b. Missouri Department of Natural Resources – Division of State Parks
 - c. Missouri Department of Conservation
 - d. Missouri Office of Administration – Federal Assistance Clearinghouse
4. Consulting Engineer: Shoreline Surveying and Engineering, LLC
3048 Hwy 52
Eldon, MO 65026
5. In accordance with the National Historic Preservation Act Section 106, notice was given to all tribes that may attach a religious or cultural significance to historic properties in the region that may be affected by this undertaking. No tribes expressed concerns regarding the project.

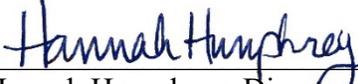
Positive Environmental Effects to be Realized from the Proposed Project: This project is beneficial to the environment because it is eliminating potential health hazards from failing septic tanks with the collection system.

Reasons for Concluding There Will Be No Significant Impacts: The proposed project will have a positive impact on water quality and will not result in any significant adverse impacts on rare or endangered species, flood plains, wetlands, recreational areas, cultural/archaeological sites, or air quality. Population densities and land use trends will not be significantly affected. Appropriate mitigation measures will be implemented for minor impacts, which are expected to be temporal in nature.

This action is taken on the basis of a careful review of the facility plan and supporting documentation on file in the office of the Missouri Department of Natural Resources' Water Protection Program at 1101 Riverside Drive, Jefferson City, MO 65101. These are available for public review upon request Monday-Friday, 8:00 a.m. to 5:00 p.m. This agency will not take any administrative action on this project for at least 30 calendar days from the date of this document. Persons wishing to comment on the above environmental decision may submit comments to Phillip Akin of the Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176, during this period. E-mail comments will be accepted at the following address: DNR.SRFPublicNotice@dnr.mo.gov. Please include the project name and number in all comment letters. Thank you.

Sincerely,

WATER PROTECTION PROGRAM



Hannah Humphrey, Director
Financial Assistance Center



Phillip Akin
Project Manager

HH:pac

6-16-20

Date

Attachments

DISTRIBUTION

Department of Conservation
P.O. Box 180
Jefferson City, MO 65102

Conservation Federation of Missouri
728 West Main Street
Jefferson City, MO 65101

Environmental Protection Agency
c/o Tanya Nix – WWPD/SRFB
11201 Renner Blvd.
Lenexa, KS 66219 (Copy Emailed)
Nix.Tanya@epamail.epa.gov

Missouri Department of Natural Resources
Missouri Geological Survey
Environmental Geology Section
P.O. Box 250
Rolla, MO 65402-0250

Missouri Department of Natural Resources
Division of State Parks
State Historic Preservation Office
P.O. Box 176
Jefferson City, MO 65102-0176

U.S. Fish and Wildlife Service
Ecological Services
101 Park DeVillie Drive, Suite A
Columbia, MO 65203-0057

National Park Service
Midwest Region
Planning and Compliance Office
Environmental Coordinator
601 Riverfront Drive
Omaha, NE 68102-4226

USDA Rural Development
601 Business Loop 70 West
235 Parkade Center
Columbia, MO 65203

Gilmore and Bell, P.C.
c/o Shannon Walsh Creighton
One Metropolitan Square
211 N. Broadway, Suite 2000
St. Louis, MO 63102-2741

SRF File C295838-01

Rocky Mount Sewer District
c/o Leon “Red” Jennings
30772 Weller Road
Rocky Mount, MO 65072

Shoreline Surveying and Engineering, LLC.
c/o Jared Wheaton, P.E.
3048 Hwy. 52
Eldon, MO 65026

Missouri Department of Natural Resources
Central Field Operations
P.O. Box 176
Jefferson City, MO 65102-0176

Versailles Leader-Statesman
104 West Jasper Street
P.O. Box 348
Versailles, MO 65084

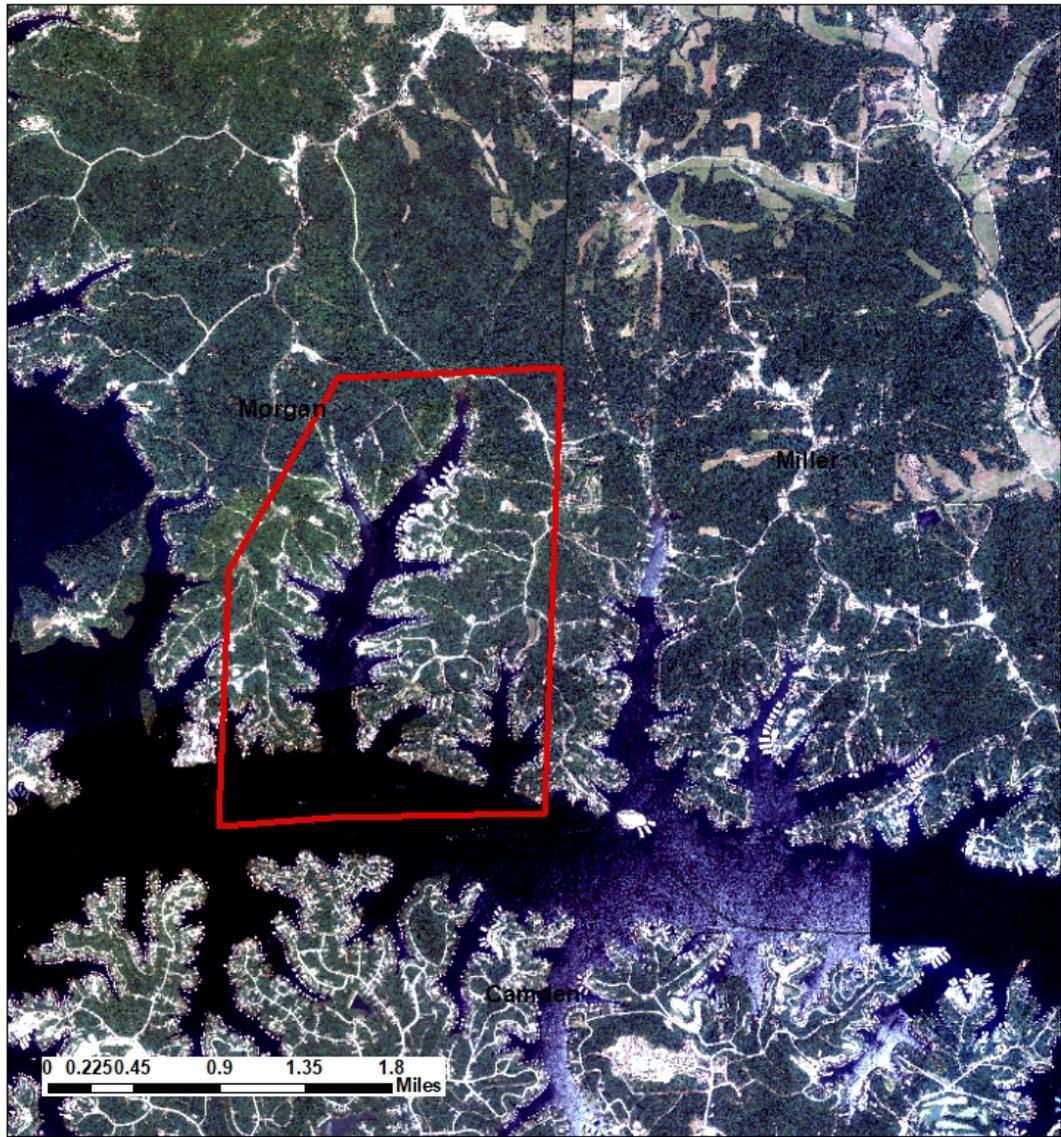
Environmental Protection Agency
Office of Federal Activities
Ariel Rios (2252A)
1200 Pennsylvania Avenue, N.W.
Washington, DC 20004

Council of Environmental Quality
722 Jackson Place, N.W.
Washington, DC 20503

U.S. Army Corps of Engineers
Kansas City District
Truman Regulatory Satellite Office
15837 Truman Road
Warsaw, MO 65355

Lake of the Ozarks Council of Local Governments
34 Roofener
P.O. Box 3553
Camdenton, MO 65020

Lewis, Rice and Fingersh
c/o David Brown
600 Washington Ave., Suite 2500
St. Louis, MO 63101



Project Location Map

Rocky Mount Sewer District





MISSOURI
DEPARTMENT OF
NATURAL RESOURCES
 Division of Environmental Quality
 Water Protection Program
 Financial Assistance Center

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