



SEWER DISTRICT

REQUEST FOR QUALIFICATIONS

for development of a

COMPREHENSIVE MASTER PLAN

The Logan County Sewer District, Logan County, Ohio, intends to contract with a qualified consultant to develop a county-wide Master Plan for the Logan County Sewer District. The Master Plan will include updated Facility Plans for the Indian Lake Regional Wastewater Treatment Plant (WWTP), Flat Branch Wastewater Treatment Plant (WWTP), and their respective Sanitary Sewer Systems. Firms interested in being considered must reply with a Statement of Qualifications no later than 3:00 PM on June 29, 2026. Statements received after this deadline will not be considered.

Submission Requirements

Statements of Qualifications must include the following:

- **Firm History & Capacity to complete the Master Plan:** Overview of the firm's background and years of operation including the evaluation, design, and construction of projects similar in scale and scope.
- **Key Personnel:** Education, certifications, and experience of key technical personnel assigned to completing key elements of the Master Plan, including specific experience with rate evaluations, wastewater treatment processes, electrical systems, PLC networks and SCADA integration, process monitoring and automation, and sanitary sewer systems including gravity sewers, pumping stations, and low-pressure sewer systems.
- **Technical Expertise:** Detailed description of the firm's staff, and sub-consultants, expertise in wastewater treatment processes and sanitary sewer engineering, PLC Networks, SCADA systems, and continuous monitoring technologies assigned to the project.
- **Relevant Experience:** Demonstrated experience in performing engineering studies, design, construction administration, and construction observation for wastewater

treatment facilities and sanitary sewer systems, with a focus on incorporating robust SCADA and continuous monitoring systems.

- **Staff Availability & Location:** Confirmation of staff availability and office location to meet project timelines.
- **Regulatory Knowledge:** Extensive knowledge of Federal, State, and local regulatory requirements, including Ohio EPA and NPDES permitting processes.
- **SCADA and Monitoring Expertise:** Proven experience in designing, implementing, and optimizing SCADA/PLC systems and continuous monitoring solutions for wastewater treatment plants, including data integration for real-time operational control. Integration of continuous monitoring system to automate processes to maximize process efficiency and effluent quality with limited staff is desired.
 - Provide any evaluation or use on the practical application of AI/Machine Learning in operation and monitoring of treatment processes.
- **References:** Contact information for 3 previous municipalities or government entities for whom similar work was recently performed.
- **Submittals:** Electronic submittals preferred. Submittals shall be a physical drive such as USB or external hard drive or through a secure file share service. Hard copies will be accepted as well at the mailing address listed. Physical drives, emailed file share links, and hard copies must be received by the cutoff date/time to be accepted.

Send Statements of Qualifications to:

Logan County Sewer District
Brian Schultz, Director

- **Email:** Brian.Schultz@logancountyohio.gov
- **Mail:** Logan County Sewer District, 1015 State Route 708 S., Russells Point, Ohio 43348, Attn: Brian Schultz

Evaluation Process

As required by Ohio Revised Code 153.65-73, responding firms will be evaluated and ranked based on their qualifications, experience, office location of key personnel, and history & quality of prior work with the Logan County Sewer District. It is the intent, but not requirement, of the Logan County Sewer District to utilize the consultant selected to

complete the Master Plan to also perform the design and construction administration for approved improvements.

Project Overview

- **Name of Project:** Logan County Sewer District: Indian Lake WWTP & Sanitary Sewer Master Plan
- **Location:** 1015 State Route 708 S., Russell's Point, Ohio 43348
- **Description:** The Logan County Sewer District's Master Plan requires a comprehensive update to address facility and process improvements, regulatory compliance, and advanced operational systems. The Master Plan will include an engineering evaluation of all WWTP structures, processes, and equipment, with a specific emphasis on upgrading SCADA/PLC systems and implementing robust continuous monitoring to enhance operational efficiency, reliability, and regulatory compliance. The evaluation will also include the sanitary sewer collection system, environmental impacts on the receiving streams, anticipated NPDES permit limits, various improvements to buildings and personnel areas, and provide a rate evaluation to fund recommended projects.

In addition, the selected firm will provide an evaluation of the county's unsewered areas to identify potential service areas and boundaries for use by the Sewer District and the Health District.

Scope of Engineering Evaluation

The engineering evaluation will include the following:

1. Indian Lake Regional WWTP & Flat Branch WWTP
 - a. Treatment Processes & Equipment
 - b. Electrical Distribution
 - c. Potable & Plant Water Systems & Lines
 - d. PLC Network & SCADA
 - i. PLC Network design
 - ii. High efficiency wastewater treatment using advanced monitoring and process control.
 - iii. Remote access & monitoring
 - iv. HMI development
 - v. Robust data collection
 - e. Personnel
 - i. Staffing needs

- ii. Staff Work areas
- 2. Sanitary Sewer Systems
 - a. Evaluation of Pump Stations
 - i. Emergency operations
 - ii. Rehabilitation
 - iii. Pumping efficiency
 - b. Hydraulic Model
 - i. Inflow & Infiltration reduction
 - ii. Collection system evaluation for future development
 - iii. Bottlenecks limiting development & contributing to wet weather SSOs.
 - c. Low-pressure sewer system evaluation
 - d. PLC Network & SCADA
 - i. Monitoring/Data Collection
 - ii. Predictive Alarm Conditions
 - iii. Robust data collection
 - e. Personnel/Staffing
 - i. Staffing needs
 - ii. Staff Work areas
- 3. Logan County Sewer District Admin
 - a. Rate evaluation
 - b. Building/Work areas

Indian Lake Regional WWTP Overview

The Indian Lake Regional WWTP is a modified extended aeration activated sludge treatment plant with the following flow characteristics:

- Average daily flow: 2.3 MGD
- Design flow: 4.6 MGD
- Peak hourly flow: 6.0 MGD
- Maximum bypass flow: 10 MGD (wet weather events due to inflow/infiltration)
- NPDES #1PK00002

Indian Lake Regional Sanitary Sewer System Overview

- 83.13 miles of gravity sewer
- 43.45 miles of pressure sewer
- 1810 manholes

- 32 pump stations
- 1 Wet weather pump station
- 310+ Grinder pump stations

Flat Branch WWTP Overview

The Flat Branch WWTP is an activated sludge extended aeration package treatment plant with the following flow characteristics:

- Average daily flow: 0.037MGD
- Design flow: 0.1 MGD
- Peak hourly flow: 0.2 MGD
- NPDES #1PP00006

Flat Branch Sanitary Sewer System Overview

- 2.25 miles of gravity sewer
- 0 miles of pressure sewer
- 43 manholes

The Master Plan is intended to address current needs but also anticipate future growth, regulatory, and technological advancements.