

# **REQUEST FOR PROPOSALS**

## **MARQUETTE COUNTY SOLID WASTE MANAGEMENT AUTHORITY (MCSWMA)**

### **WASTEWATER TREATMENT PLANT DESIGN**

#### **Background**

The Marquette County Solid Waste Management Authority (MCSWMA) operates a Type II sanitary landfill. It receives non-hazardous waste from residential and commercial sources. On average, it receives about 60,000 tons of permitted waste annually. A wastewater treatment system exists onsite that includes six lagoons. The lagoons are utilized for both leachate storage and treatment. Typically, leachate is treated in the lagoons between April through November of each year. Lagoons that meet NPDES standards are discharged through a permitted outfall to the Carp River.

Over the past two years, the MCSWMA has been exploring alternative wastewater treatment options to deal with emerging pollutants such as per- and polyfluoroalkyl substances (PFAS). Recently, it was determined that the current MCSWMA wastewater treatment methods are not adequate to manage emerging pollutants including PFAS. A new wastewater treatment plant needs to be designed.

The MCSWMA is taking a proactive approach to leachate management. A draft project plan is developed, and we are exploring alternative leachate treatment options. Project plan development led to a funding opportunity through the State of Michigan's Clean Water State Revolving Fund program. Recently, the MCSWMA entered an Administrative Consent Order. Requirements include the construction of a new wastewater treatment plant, infrastructure, and appurtenances by August 1, 2027. Tentatively, the Authority intends to commence construction on this project in the spring of 2024.

**For all prospective bidders, the Regional Wastewater Treatment Facility Draft Project Plan, Administrative Consent Order, and the CWSRF Draft Project Milestone Schedule are available in PDF format on our website home page [www.mcswma.com](http://www.mcswma.com).**

## **Nature of Work and Specifications**

The engineering firm selected will be tasked with the design of a Membrane Bioreactor (MBR) - Granular Activated Carbon (GAC) leachate treatment system. In addition, planning and implementation of operational based elements of the system are being sought by MCSWMA. These elements and the design of the wastewater treatment facility are intertwined, and directly impact future operations at MCSWMA. The wastewater treatment system design and operational elements of the system include but are not limited to:

- Design partial landfill closure (per Part 115 and the MCSWMA 2017 Construction Permit (No. 4159), to minimize future landfill leachate generation
- Explore alternative leachate storage methods for designed treatment system
- Design plans to accommodate current and future leachate flows as the landfill expands and partially closes
- Design insulated equipment building for MBR/GAC system and associated components
- Design plumbing necessary to direct flows to the treatment works
- Design electrical service improvements and treatment control panels
- Assist in search for system operator and training required for future MCSWMA operator
- Develop the treatment system residuals management plan

### **Building Specifications**

- Size: TBD by equipment needs
- Foundation: Slab on grade
- Construction: Poured wall with steel building, ceiling height TBD by equipment needs
- Roof: Hip and jack style, standing seam metal roof
- Windows: Energy efficient
- Heating: LPG heat with air conditioning/ventilation

The building functions will include the wastewater treatment equipment area, an office, a water laboratory, storage room, and a mechanical/electrical room. **Refer to the Regional Wastewater Treatment Facility Draft Project Plan, for additional information.**

## **Scope of Work**

1. Collectively work with MCSWMA staff to ensure the most effective, functional, and efficient design utilizing the most current wastewater treatment technology.
2. Meet all requirements of the CWSRF Project Milestone Schedule.
3. Assist MCSWMA in and/or facilitate compliance with Administrative Consent Order.
4. Communicate/correspond with the State regulatory agency on behalf of MCSWMA as required.
5. Provide construction documents, including bidding, specifications, permitting, and quality assurance, for the required work items.
6. Prepare cost estimates and evaluate construction bids.
7. Bid recommendation.
8. Prepare budget revisions/amendments as needed.
9. Provide supervision of construction work and communicate work change orders to the MCSWMA.
10. Certify that construction performed is in accordance with construction contract documents.
11. Provide the Authority with Auto CAD construction bid drawings and as-built drawings of the project.

## **Primary and Secondary Contact Person(s)**

The point of contact for this RFP is:

Bradley A. Austin, Director  
MCSWMA  
600 County Road NP  
Marquette, Michigan 49855  
Telephone: 906-249-4125 Ext. 305  
[directorrecycle906@gmail.com](mailto:directorrecycle906@gmail.com)

Mike Stannard, Operations Supervisor  
MCSWMA  
600 County Road NP  
Marquette, Michigan 49855  
Telephone: 906-249-4125 Ext. 307  
[opssupervisor906@gmail.com](mailto:opssupervisor906@gmail.com)

## **Insurance Documents**

Respondents must be able to meet the County of Marquette's professional liability insurance standards. Proof shall be presented within 10 days of the bid award.

## **Iran Sanctions Act**

Respondents must certify that they are not an Iran linked business, and that its contractors and/or sub-contractors are not Iran linked businesses, as defined in MCL 129.312.

## **Form of Response**

1. Verifiable experience on projects of equivalent size and scope.
2. Evidence that the architect/engineer is currently registered in the State of Michigan.
3. Capability to provide professional services in a timely manner.
4. Past performance in terms of cost control, quality of work, and compliance with performance schedules.
5. Proposal response form with lump sum\* not-to-exceed price for providing the labor and materials described in this RFP. Price must be firm for sixty (60) days.

\*Lump sum amount shall include, but is not limited to labor, equipment, materials, testing, soil borings, travel, and reproductions. Conditional proposals will not be accepted. All questions submitted in writing. Questions may be submitted by e-mail.

6. Send questions or inquiries via email to both [directorrecycle906@gmail.com](mailto:directorrecycle906@gmail.com) and [opssupervisor906@gmail.com](mailto:opssupervisor906@gmail.com) regarding:
  - Request for Proposals
  - Administrative Consent Order
  - Regional Wastewater Treatment Draft Project Plan

## **Deadline(s)**

The deadline for submission of questions or inquiries is **December 5, 2022, at 4:00 pm E.S.T.** Please send all questions or inquiries to **the primary and secondary project contact persons** at [directorrecycle906@gmail.com](mailto:directorrecycle906@gmail.com) and [opssupervisor906@gmail.com](mailto:opssupervisor906@gmail.com).

The deadline for submission of the proposal for design and engineering services is **December 14, 2022, at 4:00 pm E.S.T.** Please send electronic proposal to **the primary and secondary project contact persons** at [directorrecycle906@gmail.com](mailto:directorrecycle906@gmail.com) and [opssupervisor906@gmail.com](mailto:opssupervisor906@gmail.com).

## **Selection**

**On December 21, 2022, at 4:00 P.M. E.S.T., the MCSWMA will award the bid** to the firm having the combination of price, qualifications, experience, and scheduling most advantageous to MCSWMA. The MCSWMA reserves the right to reject any or all proposals and to wave irregularity in the proposals.