



Shakopee Mdewakanton Sioux Community

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MEMORANDUM TRIBAL ADMINISTRATION

WORKPLAN

Name of Applicant and Project Title: Shakopee Mdewakanton Sioux Community, Organics Recycling Facility – Water Reclamation System

Project Objective(s) and Need: The project aims to secure funding for the construction of the Water Reclamation System of the Shakopee Mdewakanton Sioux Community (SMSC) Organics Recycling Facility (ORF) in Shakopee, MN. This system will address the water reuse components at the newly constructed ORF, which diverts waste from landfills, protects water resources, and promotes sustainable industrial development.

Project Description

Grant Recipient:

- Name of Requesting Organization: Shakopee Mdewakanton Sioux Community
- Type of Entity: Tribal Government
- Project Contact: Steve Albrecht, Operations Administrator
- Phone: 952.233.4236
- Email: steve.albrecht@shakopeedakota.org
- Address: 1905 Mystic Lake Drive South, Shakopee, MN 55379
- Website: <https://www.smscorf.com/future-facility/>

Project Details:

- Project Name: Shakopee Mdewakanton Sioux Community Organics Recycling Facility – Water Reclamation System
- Funding Request: \$2,500,000
- Location: Intersection of Highways 169 and 41 in Louisville Township, MN
- Summary: This project will complete a water reclamation system at the SMSC Organics Recycling Facility, which processes paper, food, and yard waste. It will address environmental concerns, allowing recycling of materials without compromising water resources.

Public Benefit and Use of Taxpayer Dollars:

- The project benefits the public by advancing water reuse and organics recycling, reducing landfill waste, and establishing advanced environmental efficiency procedures. It ensures sustainable industrial development and water resource protection, making it a wise use of taxpayer funds.

Community Impact:

- The facility will meet the increasing demand for organics recycling by reclaiming water on site and reusing this vital resource into its composting operations. It addresses policy mandates, protecting water quality, and preserving cultural heritage in a growing metropolitan region.

Milestone Schedule

- ORF Construction Start: Summer 2023
 - The new Organics Recycling Facility commenced construction in Summer 2023 and is slated for completion in Summer 2024.
- Water Reclamation System Environmental Review: Winter 2024
 - The EPA will follow the National Environmental Policy Act guidance in completing its review of the proposed project.
 - The submitted Environmental Information Document addresses the water reclamation system as a component of the larger ORF project and focuses on the entirety of the new facility versus the stand-alone reclamation system.
- Water Reclamation System Construction Start: Spring 2024
 - The EPA-funded water reclamation system portion of the ORF will commence construction in Spring 2024 with anticipated completion in Summer 2024.
- Construction Completion: Summer 2024
- ORF Operational: Fall 2024

Construction Phase: The ORF Water Reclamation System construction phase of the project is expected to begin in April 2024 and is anticipated to be completed within approximately six months. This phase will involve the installation and construction of various system components, including the concrete aeration basins, stormwater lift station, control building, concrete filtration baffle system, electrical infrastructure, and other necessary control elements.

Operational Phase: Following the completion of the construction phase, the facility will enter its operational phase around Fall 2024. During this period, the water reclamation system and other components will be fully operational and utilized for the intended purpose of treating and reusing water runoff from the organics recycling process.

The project's completion timeline is subject to numerous factors, including weather conditions, regulatory approvals, supply chain delays, unforeseen challenges, and potential adjustments during the construction and operational phases.

Environmental Results/Benefits

- The ORF – Water Reclamation System project aligns with EPA's Strategic Goal 5: Ensure Clean and Safe Water for All Communities, specifically focusing on the following objectives.
 - Objective 5.1: Ensure Safe Drinking Water and Reliable Water Infrastructure:
 - Outputs: Implementation of a state-of-the-art water reclamation system that efficiently treats and reuses water runoff, preventing discharges offsite even during extreme rainfall conditions.

- Outcomes: Enhanced water quality and safety through the reduction of contaminants, protection of groundwater and surface water resources, and support for reliable water infrastructure.
- Objective 5.2: Protect and Restore Waterbodies and Watersheds:
 - Outputs: Establishment of concrete filtration baffle system for effective removal of solids, preventing pollutants from entering waterbodies.
 - Outcomes: Improved waterbody health, reduced pollution, and enhanced ecosystem resilience in the surrounding watersheds.
- Additional Outputs:
 - Successful completion of stormwater lift station with pumps and controls, contributing to stormwater management and preventing contamination.
 - Construction of a control building housing essential equipment for efficient system operation, ensuring proper handling of materials and preventing environmental impacts.
 - Installation of electrical infrastructure and backup systems, ensuring continuous system functionality and reducing potential disruptions.
 - Implementation of communication and security control elements to prevent unauthorized access and ensure facility integrity.
- Additional Outcomes:
 - Minimized environmental impact from stormwater runoff containing PFAS and other pollutants through advanced water reclamation practices.
 - Promotion of sustainable industrial development by demonstrating effective water reuse techniques, setting a precedent for responsible waste management.
 - Long-term reduction of landfill waste, resulting in reduced strain on landfills and mitigated environmental risks associated with landfill disposal.
 - Enhanced water resource resilience, contributing to the protection of local waterbodies and supporting the overall health of ecosystems.

Workplan Requirements for Identifying Contractors

Procurement and Contractual Compliance:

The contractual selection process for the ORF - Water Reclamation System project will adhere to the competitive Procurement Standards outlined in 2 CFR 200.317 – 2 CFR 200.327. The project's procurement efforts will also align with EPA's Contracts and Subawards solicitation clause. The project team will utilize the Best Practice Guide for Procuring Services, Supplies, and Equipment Under EPA Assistance Agreements to ensure all procurement activities are in accordance with EPA's regulations and guidelines.

In line with these principles, procurement transactions for professional engineering services and construction contractors will be conducted with the aim of fostering fair competition among a diverse pool of qualified sources. To achieve this, the project will follow the specific methods of procurement outlined in 2 CFR 200.320. This will include selecting the most suitable procurement method based on the project's requirements and circumstances.

Quality Assurance

The QA/QC plan will encompass the following key components:

- Clearly defined project objectives, scope, and performance criteria.
- Regular project progress assessments and milestone reviews.
- Ongoing monitoring and documentation of project activities and deliverables.
- Comprehensive quality checks to ensure adherence to design parameters and project specifications.
- Timely identification and resolution of any issues or deviations from the plan.
- Collaboration with relevant stakeholders to ensure transparency and accountability.
- Documentation of QA/QC processes and outcomes for reporting and evaluation purposes.

The QA/QC plan will be an integral part of the project's management framework, contributing to the efficient use of grant funds, adherence to project timelines, and the achievement of anticipated environmental outcomes.