DuPage River Salt Creek Workgroup

Completion of Phase 1. Non-point Source Phosphorous Reduction Feasibility Analysis

Project Overview

The DuPage River Salt Creek Workgroup (DRSCW) wishes to acquire professional services to assist with the analysis and documentation of phosphorous (P) reduction in stormwater wash off from area leaf litter management and street sweeping practices.

The area of study are the basins of the DuPage River (West, East and Lower DuPage) and Salt Creek, an area of 530 square miles. This area contains approximately 75 agencies with authority over a public transport system which may have a leaf litter and street sweeping program.

The DRSCW recognizes that there are severe limitations to removing P in stormwater wash off via structural BMPs. Such BMPs are expensive, urban public easements are already crowded with utilities, and ponds and other structures require extensive maintenance to continue to remove P, even switching from sinks to sources over time. Additionally, studies (Selbig 2016) suggest that as much as 60% of P in area urban wash off comes from fall leaf litter. Based on these findings, the DRSCW has chosen to focus of its non-point source P reduction strategy on source reduction.

In order to gather data to perform this analysis, the DRSCW along with its partners: 1) Issued an area-wide questionnaire covering elements of leaf litter management and street sweeping in 2021. 2) Developed a high resolution spatial database showing the overlap and common boundaries between tree canopy and public transportation networks.

In order to meet the project schedule commitments, the DRSCW is soliciting Statement of Interests (SOIs) from engineering and environmental firms for the work notated above. SOIs shall be limited to not more than two (8 ½ x 11) pages and include, at a minimum, the following information: name of firm with address and contact information; contact person for the firm; statement indicating firm's interest in the project; a summary of projects similar in scope and magnitude recently completed by the firm; a list of proposed key staff who would be assigned to the project; a list of proposed sub-consultants, if any, and a brief technical approach to the project.

Consultant Scope of Services

The consultant will be responsible to perform, but not limited to, the following tasks:

- Assist DRSCW with chronicling its decision to strategically focus NPS phosphorus reduction on source reduction, specifically leaf litter reduction.
- Assist DRSCW staff with analyzing the results from the 2021 street sweeping and leaf litter questionnaire.
- Assist DRSCW staff with calculations to approximate P currently captured by current street sweeping practices using the University of Minnesota Street Sweeping Planning Tool or other similar tool or model.
- Assist DRSCW staff with calculations to approximate P captured by current leaf litter practices by using data from USGS, the DRSCW's spatial data base and results from the leaf litter survey.

- Develop a source map for P from leaf litter using the spatial database.
- Map current leaf litter practices onto the NPS source map.
- Work with DRSCW staff and Project Committee members to integrate the study's findings with other areas of the Nutrient Implementation Plan.
- Identify cost neutral or the most cost-effective ways to improve current practices.
- Develop recommendations for empirical testing of the study's findings in a future phase of the project.
- Serve as Team Lead in drafting a report documenting the various elements of the study.
- Show ability to effectively communicate with all entities that make up the project team; and
- Must demonstrate the ability to meet project deadlines.

Consultant Key Staff

- At least one (1) Environmental Scientist with experience in spreadsheet-based water quality models and familiarity with street sweeping and leaf litter collection as a best management practice (BMP) for non-point source pollution reduction.
- At least one (1) GIS technician with experience in landscape level analysis.

Project Parameters

1. The budgeted amount for this contract is not to exceed $25,000.
2. The duration of this contract will go through December 31, 2021.

Selection Criteria and Weighting

Technical Approach	30%
Firm Experience	25%
Staff Experience/Capabilities	30%
Work Load Capacity	10%
Collaboration with DRSCW staff	5%

Proposal Requirements

Statements of interest (2 pages) are due July 9, 2021 and should be addressed to:

Deanna Doohaluk
Watershed Project Manager
DuPage River Salt Creek Workgroup
10S404 Knoch Knolls Road
Naperville, Illinois 60565

Submit via email to ddoohaluk@theconservationfoundation.org

Resources - The Leaf Litter & Street Sweeping Questionnaire, the Selbig USGS 2016 study, a sample of the spatial database and the University of Minnesota Street Sweeping Planning Tool are available at https://drscw.org/rfp-rfq/

A contract will be negotiated with the highest ranked firm from this SOI process.