



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday April 17, 2019

Agenda Item

Item 6. F. LMRWD Projects

Prepared By

Linda Loomis, Administrator

Summary

- i. **Eden Prairie Area #3 Stabilization**
This is an area at RMP (River Mile Post) 19.2 that has seen significant erosion at the toe of the bluff. The LMRWD installed inclinometers in the bluff to measure movement of the bluff. Braun Intertech takes annual readings from the inclinometers (which the LMRWD shares with the city of Eden Prairie). Braun was out to take readings in February. One of the inclinometers had an ice plug in it such that we could not lower the probe could not be lowered. They will go out once the ground has thawed sufficiently to get readings. Braun was able to get a reading from the second meter, which measured little to no movement.
- ii. **Riley Creek Cooperative project/Lower Riley Creek restoration**
No new information to report since last update
- iii. **Seminary Fen ravine stabilization project**
No new information to report since last update
- iv. **East Chaska Creek (Carver County Watershed Based Funding)**
Staff prepared a task order for the East Chaska Creek Project. It was in the meeting packet at the February meeting however, staff neglected to get Board approval of the task order. It is in the packet again this month.
- v. **Schroeder Acres Park (Scott County Watershed Based Funding)**
Staff is developing a cooperative agreement between the City and the LMRWD
- vi. **Shakopee Downtown BMO Retrofit (Scott County Watershed Based Funding)**
Staff is developing a cooperative agreement between the City and the LMRWD
- vii. **PLOC (Prior Lake Outlet Channel) Restoration (Scott County Watershed Based Funding)**
Staff is developing a cooperative agreement between the City and the LMRWD
- viii. **Dakota County Fen Gap Analysis and Conceptual Model (Dakota County Watershed Based Funding)**
The agreement between the LMRWD and Dakota County SWCD was on the consent agenda. Now that the agreement is in place, staff will contact the DNR to begin work on the gap analysis.

ix. Hennepin County Chloride Project (Hennepin County Watershed Based Funding)

Riley/Purgatory/Bluff Creek Watershed District, Nine Mile Creek Watershed District, Richfield/Bloomington Water Management Organization and the LMRWD pooled our allocations of Watershed Based Funding from Hennepin County to focus on Chloride reduction. Representatives from each of the organizations met in mid-March and will meet again April 16th. At the March meeting we agreed that we should develop a joint powers or similar agreement and brainstormed some of the uses of funds. It was agreed that sending city staff to training would qualify for funding. We also discussed reaching out to property managers of some of the larger land uses, such as shopping malls (Eden Prairie Center) and churches to offer training for winter maintenance.

x. Vegetation Management Plan

Staff has developed a draft and is preparing a 1-2 page executive summary that is more user friendly, since the target audience for the Vegetation Management Plan is the public.

**xi. Sustainable Lake Management Plan - Trout Lakes
No new information to report since last update.**

xii. Geomorphic Assessment of Trout Streams

Interns are in place to begin assessment of Trout Streams within the LMRWD. Interns will undergo a week of training in conjunction with training done by Riley/Purgatory/Bluff Creek Watershed District.

xiii. Spring Creek Cost Share

At the February Board meeting it was reported that Carver SWCD was contacted by additional property owners impacted by erosion from Spring Creek and that staff was trying to work with the city to determine the best course of action for managing erosion on Spring Creek. The city is reluctant to get involved with any bank stabilization as it involves work on private property.

The Carver SWCD prepared plans to stabilize the bank. LMRWD staff determined that moving forward on these projects without evaluating the entire watershed does not offer the best cost/benefit for the LMRWD.

A task order detailing the scope of work a study would consider is attached. The Board should make a motion to authorize the study as detailed in the

xiv. West Chaska Creek Re-meander

The Carver WMO has informed the LMRWD that it is ready to bid phase 1 of the project. Staff is developing a cooperative agreement between the City and the LMRWD

Attachments

Spring Creek Task Order

Recommended Action

Motion to authorize Spring Creek Task Order

Technical Memorandum

Date: April 12, 2019
To: Linda Loomis, Administrator
From: Della Schall Young, PMP, CPESC
Subject: Spring Creek Assessment Project Task Order

(Email transmittal)

Two properties in the Carver, Minnesota, which are adjacent to the creek, are experiencing erosion and damages resulting from the encroachment of Spring Creek and an adjacent project. The District has asked the Young Environmental Consulting Group (LLC) team, which includes Barr Engineering Co., to complete an initial assessment of the site and provide recommendations to the District that can be forwarded to the property owners for next steps. The following is the scope of work.

An additional optional task has been provided based on the current understanding of the project. If this optional task and other additional tasks are required, the scope of work and budget may need to be reevaluated.

Task 1: Site visit and background information

We will visit the site to document the current state of the eroding bank; assess the extent of erosion present; and, if possible, determine the cause of erosion. We will take photos and estimate the height and length of erosion sites. We will contact the landowners prior to the visit to schedule a time to meet on-site. We will also contact the City and/or the USACE to inquire about background information on the project installed on the adjacent property.

Deliverable: A summary of observations and data collected will be included in a summary memorandum

Cost: \$ 3,200

Task 2: Summary memorandum

We will draft a memorandum to summarize the observations made during the site visit and recommendations the District can provide to the landowners for next steps. The memorandum will also include a discussion regarding prefeasibility concept plans and cost estimates that could be explored for stabilizing the eroding area. We will provide a draft report to the District to review and will incorporate comments into a final memorandum, which will be delivered in PDF format.

Deliverable: Draft and final summary memorandum

Cost: 4,350

Task 3: Concept plan and cost estimate (Optional)

We will develop one (1) concept for stabilizing the eroding bank. This will include the concept plan in GIS and a concept-level cost estimate. The cost estimate from this level of concept design will assist the District and landowners in narrowing the cost estimate and stabilization options.

Deliverable: GIS-based concept plans and cost estimates included in the summary memorandum

Cost: \$2,200

Cost Estimate

Task Description	Estimate
Task 1: Site visit and background information	\$3,200
Task 2: Summary memorandum	\$4,350
Total:	\$7,550

Assumptions

- 1) Only one visit to the site will be required.
- 2) The prefeasibility concept plans and cost estimates will be developed for planning purposes only.
- 3) The current scope of work will not include additional investigations that may be necessary for the completion of the final design and/or permitting, such as:
 - a. Topographic survey
 - b. Wetland delineation
 - c. Cultural/historical investigation
 - d. Geotechnical investigation
- 4) Only one round of comments will be included in the draft memo.

**Accepted and Agreed to: Spring Creek
Assessment Project Task Order – 404
Broadway**

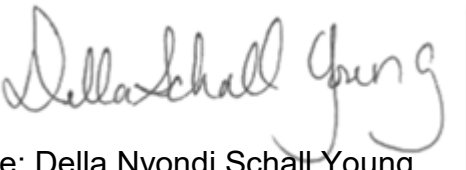
CLIENT
Lower Minnesota River Watershed District

By: _____

Name: _____

Title: _____

CONSULTANT
Young Environmental Consulting Group, LLC

By: 

Name: Della Nyondi Schall Young

Title: Owner and Principal