



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday March 20, 2019

Agenda Item

Item 6.E. - LMRWD Projects

Prepared By

Linda Loomis, Administrator

Summary

Projects are being added to the [LMRWD website](#).

- i. Eden Prairie Area #3 Stabilization**
No new information to report since last update
- 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 has 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)**
No new information to report since last update.
- vi. Shakopee Downtown BMO Retrofit (Scott County Watershed Based Funding)**
No new information to report since last update.
- vii. PLOC (Prior Lake Outlet Channel) Restoration (Scott County Watershed Based Funding)**
No new information to report since last update
- 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)**
This project is being funded with Watershed Based Funding within Hennepin County. The first meeting of the water management organizations is scheduled for Tuesday, March 19th.
- x. Vegetation Management Plan**
No new information to report since last update.

xi. Sustainable Lake Management Plan - Trout Lakes

No new information to report since last update.

xii. Geomorphic Assessment of Trout Streams

<http://lowermnrivewd.org/projects>

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 anything to do with Spring Creek.

At the February meeting staff has said they were trying to determine whether it was better to do the projects identified by the Carver SWCD or look at the entire watershed of Spring Creek. After some discussion, staff believes that moving forward on these projects without evaluating the entire watershed does not offer the best cost/benefit for the LMRWD.

Staff was hoping to be able to have a task order detailing the scope of work a study would consider, however, weather has prevented staff from going out to the field to analyze the area in order to prepare a task order. We hope to have something for the Board to look at in April.

xiv. West Chaska Creek Re-meander

Staff is working to develop a cooperative agreement between the LMRWD and the Carver County Water Management Organization.

Attachments

Permitting, Design and Construction Administration Task Order—East Chaska Creek Channel Stabilization Project

Recommended Action

Motion to authorize execution of Permitting, Design and Construction Administration Task Order

Memorandum



Date: February 16, 2019 *(Email transmittal)*

To: Linda Loomis, Administrator

From: Della Schall Young, PMP, CPESC

Subject: Permitting, Design, and Construction Administration Task Order—East Chaska Creek Channel Stabilization Project

The Lower Minnesota River Watershed District (District) has identified the East Chaska Creek as a source of sediment entering the Minnesota River. In 2012, the District completed a Strategic Resources Evaluation (HDR, Inc., 2015), in which several streams, including the East Chaska Creek, were assessed for current and ongoing erosion and maintenance issues. A detailed assessment of the East Chaska Creek was completed by Burns & McDonnell in 2016 and updated by Barr Engineering Company (Barr) in 2018. In the assessment, a creek restoration project was defined. At the District's January 2019 meeting, the managers authorized the Young Environmental Consulting Group, LLC, team, which includes Barr, to move forward with the creek restoration design. Below is the detailed scope of work in support of the approved design effort.

Scope of Work

Task 1: Permitting

Task 1.1: Wetland Delineation

The US Army Corps of Engineers (USACE) counts stream channels as wetlands. Therefore, qualified Young Environmental and Barr staff will complete a wetland delineation within the potential project extent and generate a delineation report. The delineation will be used to determine the potential impact for permitting.

Deliverable: Wetland delineation report

Cost estimate: \$4,750

Task 1.2: Phase I Archeological Assessment

An archeological assessment is required for permitting, and Barr recommends completion of a desktop archeological assessment early in the project development to determine whether there is a reasonable probability of encountering archeological artifacts within the project site. The results of this assessment will determine whether additional archeological work is necessary and will help generate more accurate cost estimates for later stages of the project.

Deliverable: Archeological assessment memorandum

Cost estimate: \$2,190

Memorandum *(continued)*

East Chaska Creek: Permitting, Design, and Construction Administration Task Order
February 16, 2019
Page 2

Task 1.3: Permitting

Our team will work to complete the Minnesota Department of Natural Resources work in public waters permit, USACE Section 404 permit, and the City of Chaska (City) grading permit for the project. Draft permit applications will be submitted to the District for review before submission to regulators. The permit fees are not included in our cost estimate.

Deliverables: Draft and final permit applications

Cost estimate: \$5,350

Task 2: Engineering Design

Task 2.1: Topographic Survey

Barr will complete a detailed topographic survey of the areas to be stabilized. The survey is necessary to complete the project design and to develop quantities for the construction cost estimates.

Deliverable: Electronic file of the survey

Cost estimate: \$6,820

Task 2.2: 60 Percent Design

Barr will develop 60 percent of the design plans and the associated construction cost estimate to be reviewed by Young Environmental, the District, and the City. This task includes a project meeting with the District and the City to discuss the design.

Deliverable: 60 percent design plans and cost estimate

Cost estimate: \$12,550

Task 2.3: 90 Percent Design

Barr will incorporate comments from the 60 percent design meeting and continue to develop the construction documents in preparation for bidding and construction. At the 90 percent completion stage, we will provide the plan sheets to Young Environmental for review and discussion. Barr will provide an updated engineer's opinion of probable cost and draft the technical specifications for review.

Deliverables: 90 percent plans, cost estimate, and technical specifications

Cost estimate: \$7,160

Task 2.4: Final Design

Barr will incorporate comments from the 90 percent design and complete the final plans and construction documents for bidding. Barr will complete a final engineer's opinion of probable cost.

Deliverables: Final plans, cost estimate, and technical specifications

Cost estimate: \$4,130

Memorandum *(continued)*

East Chaska Creek: Permitting, Design, and Construction Administration Task Order
February 16, 2019
Page 3

Task 3: Construction

Task 3.1: Bidding

Our team will finalize the necessary tasks to complete the bid process, including advertising the project for bid, responding to inquiries with bidders, issuing addenda (if necessary), and conducting the bid opening. We assume that advertising for the bids will occur in the District’s official newspapers and online on QuestCDN.

Deliverable: Affidavit of advertisement

Cost estimate: \$2,700

Task 3.2: Construction Observation

We will provide construction planning and coordination with contractor(s) and act as a general liaison between contractor(s) and the District during the construction process to provide construction oversight as necessary and to confirm that all work adheres to the approved plan. We will schedule site visits by design team members, review work progress, and document quality and compliance through ground photos and field notes during construction. Barr will review pay requests and change orders as needed. Our team assumes that the total construction time will be approximately two weeks, and we will be on site four of those days to provide oversight and guidance.

Deliverables: Construction photos, field notes, pay applications, and change orders (if necessary)

Cost estimate: \$6,200

Cost Estimate

Task Description	Estimate
<i>Task 1: Permitting</i>	-
Task 1.1: Wetland Delineation	\$4,750
Task 1.2: Phase I Archeological Assessment	\$2,190
Task 1.3: Permitting	\$5,350
<i>Task 2: Engineering Design</i>	-
Task 2.1: Topographic Survey	\$6,820
Task 2.2: 60 Percent Design	\$12,550
Task 2.3: 90 Percent Design	\$7,160
Task 2.4: Final Design	\$4,130
<i>Task 3: Construction</i>	-

Memorandum (continued)

East Chaska Creek: Permitting, Design, and Construction Administration Task Order

February 16, 2019

Page 4

Task Description	Estimate
Bidding	\$2,700
Construction Observation	\$6,200
Total:	\$51,850

Assumptions

- The potential for the presence of environmental contamination within the project area is low, and a Phase I Environmental Assessment to determine the potential for contamination is not necessary.
- Soil borings or geotechnical investigations will not be required.
- A field investigation to determine the presence of cultural or historical artifacts will not be necessary.
- Comments on the 90 percent complete design will be completed electronically and will not require an in-person meeting.
- Construction documents will utilize Barr's standard formatting.
- An on-site meeting with regulators (MN DNR and USACE) will not be necessary.
- Young Environmental will coordinate the acquisition of temporary easements with the impacted landowners.
- The proposed budget includes the costs for mileage reimbursement for site visits as part of construction observation.
- Permit fees will be paid directly by the District.
- The preparation of an Environmental Assessment Worksheet or Environmental Impact Statement will not be required.

If you find this scope and cost estimate to be acceptable, please complete the signature block below and return the executed copy of this proposal to the Consultant as notice to proceed.

Accepted and agreed to: Design, permitting, and construction assistance task order for the East Chaska Creek project

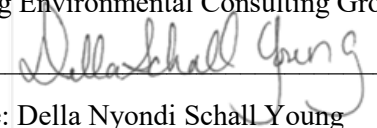
CLIENT
Lower Minnesota River Watershed District

By: _____

Name: _____

Title: _____

CONSULTANT
Young Environmental Consulting Group, LLC

By:  _____

Name: Della Nyondi Schall Young

Title: Owner and Principal