

**Project Name** | Brown's Creek Cove Restoration Project**Date** | 4/3/2025**To / Contact info** | BCWD Board of Managers**Cc / Contact info** | Karen Kill, District Administrator**From / Contact info** | Mike Majeski, Dan Mossing, P.E.**Regarding** | Brown's Creek Cove Survey & Assessment

## Background

During routine stream assessments conducted in Brown's Creek in 2021 and 2022, EOR identified degraded stream conditions and poor riparian vegetation along an approximate 1,950-foot reach between the Millbrook Homeowners Association (HOA) and McKusick Road North (Figure 1). Degraded stream conditions identified included channel incision and subsequent floodplain abandonment, bank erosion, sedimentation aggradation, limited instream habitat for fish and macroinvertebrates, and poor riparian vegetation due to prevalence of woody invasive species.

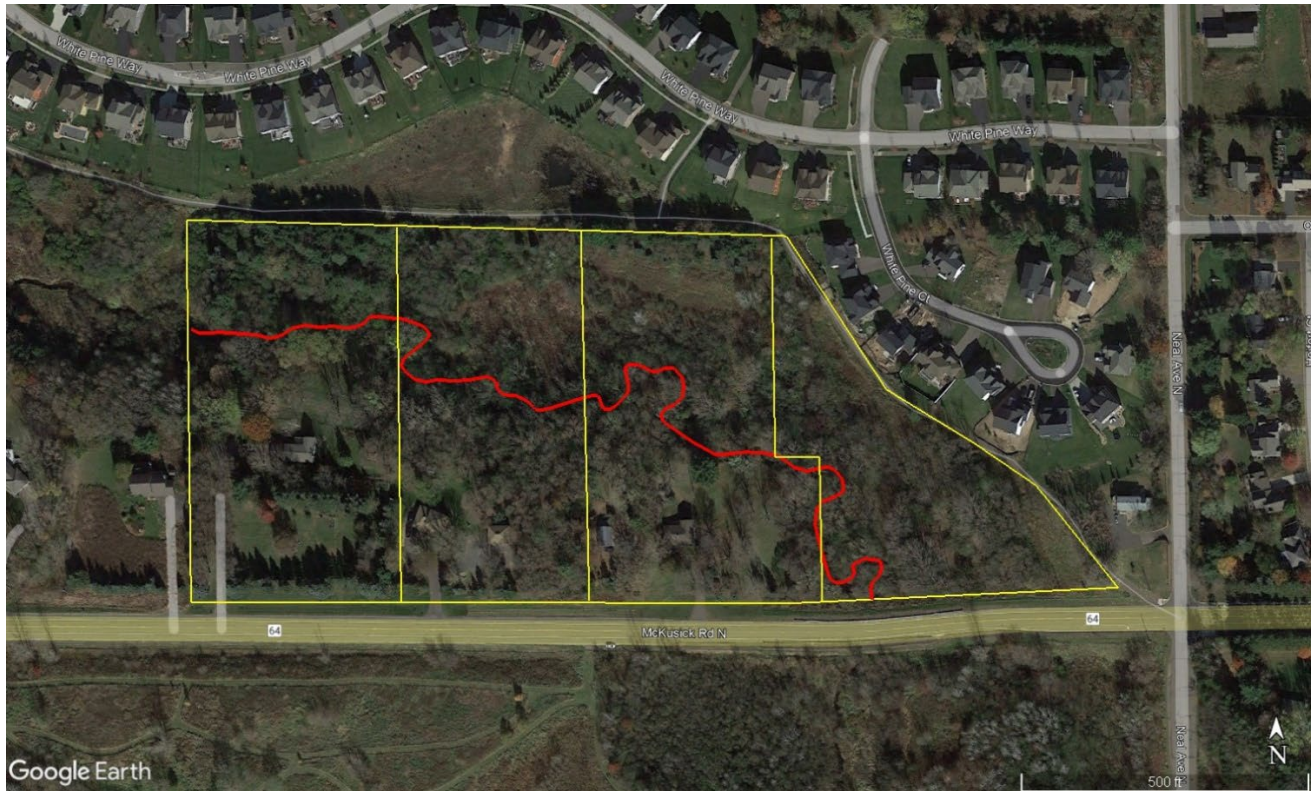
Following Board approval to conduct landowner outreach to determine interest in a potential stream restoration project on their property, BCWD and EOR staff met with two of the four landowners to discuss the project, and both landowners were amenable to the restoration project and indicated that the two remaining landowners in the project boundary would likely be interested in the project as well.

The purpose of this memo is to provide a scope of services to conduct a geomorphic stream survey and measure bank erosion rates to advance a Minnesota Pollution Control Agency (MPCA) 319 grant application for the proposed restoration project. The grant application is due May 1, 2025, so all stream survey and assessment work will be completed by April 25, 2025.

## Scope of Services

### *Field Data Collection*

A geomorphic survey of the project reach will be conducted to determine stream bed and water surface profiles, cross sectional areas, channel dimensions, and floodplain elevations to inform a concept-level design. The field work will also include a bank erosion hazard index (BEHI) survey to measure bank erosion rates that will be used to compute pollutant loading estimates for the MPCA 319 grant application.



**Figure 1. Proposed Brown’s Creek Cove restoration project (red line) between the Millbrook HOA property and McKusick Road North. Yellow lines are approximate parcel boundaries.**

**Cost Estimate**

Table 2 summarizes the tasks and estimated hours to conduct a field survey and assessment of the Brown’s Creek Cove project reach.

**Table 1. Cost estimate for the Brown’s Creek Cove survey and assessment.**

TASK	HOURS	ESTIMATED COST*
1. Public Outreach with BCWD Staff, Provide Materials for Landowner Engagement (TASK COMPLETED)	N/A	
2. Conduct Geomorphic Survey, Quantify Bank Erosion and Pollutant Loading Estimates for MPCA 319 Grant Application	34	\$6,528
<b>TOTAL</b>	<b>34</b>	<b>\$6,528</b>

\* Estimated cost includes mileage & expenses.

**Board Action**

1. Approve Task 2 for \$6,528 from account 947-0022 to advance geomorphic survey and assessment of the Brown’s Creek Cove Restoration project.