



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447  
763.553.1144 • Fax: 763.553.9326

September 14, 2023

Representatives  
Pioneer-Sarah Creek Watershed  
Management Commission  
Hennepin County, Minnesota

*The meeting packet for this meeting  
may be found on the Commission's website:  
[http://www.pioneersarahcreek.org/minutes--  
meeting-packets.html](http://www.pioneersarahcreek.org/minutes--meeting-packets.html)*

Dear Representatives:

A regular meeting of the Pioneer-Sarah Creek Watershed Management Commission will be held Thursday, September 21, 2023, at 6:00 p.m. This will be an **in-person** meeting held at Maple Plain City Hall, 5050 Independence Street, Maple Plain, MN.

A light supper will be served. **RSVPs are requested** so that the appropriate amount of food is available. At the time of your response, please let us know if you will be eating supper with us.

In order to ensure a quorum for the regular meeting, please telephone 763.553.1144 or email me at [amy@jass.biz](mailto:amy@jass.biz) to indicate if you or your Alternate will be attending. It is your responsibility to ascertain that your community will be represented at the meeting

Regards,

Amy A. Juntunen, Administrator  
AAJ:tim

cc: Alternates  
Roz Davis, Kris Guentzel, HCEE  
Brian Vlach, TRPD  
Joel Jamnik, Attorney

Andrew Vistad, Hakanson-Anderson  
City Clerks MPCA  
Met Council BWSR  
official newspapers DNR

Z:\Pioneer-SarahCreek\Meetings\Meetings 2023\3 notice.doc



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447  
763.553.1144 • Fax: 763.553.9326 • judie@jass.biz • www.pioneersarahcreek.org

**REGULAR MEETING AGENDA**  
**September 21, 2023 • 6:00 p.m.**

*The meeting packet can be found on the Commission's website:*

<http://pioneersarahcreek.org/pages/Meetings/>

1. Call to Order.
  - a. Approve Agenda.\*
2. Consent Agenda.
  - a. August meeting minutes.\*
  - b. September Claims/Treasurer's Report.\*
3. Open forum.
4. Action Items.
  - a. 2023-004: Pioneer Trail Paving Project, Greenfield.\*
  - b. 2023-005: CenterPoint Energy, Greenfield.\*
5. Old Business.
6. New Business.
  - a. FY2025 WBIF Grant Information.\*
  - b. Bridgevine/Adelmann Project Overview.\*
7. Education.
8. Staff Reports.
  - a. Engineer's Report.\*
  - b. HCEE Report.\*
  - c. TRPD Report.
9. Commissioner Reports.
10. Other Business.
11. Adjournment. (Next scheduled meeting: October 19, 2023). Z:\Pioneer-SarahCreek\Meetings\Meetings 2023\9 agenda.docx



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447  
763.553.1144 • Fax: 763.553.9326 • amy@jass.biz • www.pioneersarahcreek.org

**REGULAR MEETING**  
**Minutes**  
**August 17, 2023**

**1. CALL TO ORDER.** A regular meeting of the Pioneer-Sarah Creek Watershed Management Commission was called to order by Chair Joe Baker at 6:06 p.m., Thursday, August 17, 2023, at Maple Plain City Hall, 5050 Independence Street, Maple Plain, MN.

Present: Mark Workcuff, Greenfield; Joe Baker, Independence; Brenda Daniels, Loretto; Andrew Burak, Maple Plain; Peter Vickery, Minnetrista; Roz Davis and Kris Guentzel, Hennepin County Environment and Energy (HCEE); Andrew Vistad, Hakanson-Anderson; Brian Vlach, Three Rivers Park District (TRPD); Diane Spector, Stantec; and Amy Juntunen, JASS.

**2. AGENDA.** Motion by Daniels, second Burak by to approve the agenda\* as presented. *Motion carried unanimously.*

**3. CONSENT AGENDA.** Motion by Burak, second by Daniels to approve the Consent Agenda as presented. *Motion carried unanimously.*

a. **July 20, 2023 Regular Meeting Minutes.\***

b. **August Treasurer's Report/Monthly Claims \*** totaling \$6,808.11.

**4. OPEN FORUM.**

**5. ACTION ITEMS.**

a. **2023-003: Athmann Site Plan, Independence.\*** This is an application to build living quarters, a barn and an arena on a 35-acre site. This project will create approximately 1.4 acres of new impervious surface. Horses will be fenced out of wetland buffers and wetland areas on site. Two stormwater basins will treat runoff from the site. The applicant meets Commission requirements. Staff recommends approval contingent upon recording of an O&M agreement with the city for stormwater facilities and approval of a buffer establishment plan. Motion by Vickery, second by Daniels to approve project 2023-003 with the two contingencies noted. *Motion carried unanimously.*

b. **GS68 Sediment Testing Bid.\*** This is a bid to test the sediment to be removed as part of the GS68 pond scraping project to determine if the spoils will require hazardous disposal. The bid includes extracting sediment cores and testing of the sediment at a cost of \$4,138. Erosion from the GS68 gully has impacted this basin, which started as a natural water feature but has been impacted by landowner changes. The pond is directly adjacent to Lake Sarah and the sediment removal will have a direct impact on the water quality in Lake Sarah. A wetland delineation has not yet occurred for this basin. Motion by Burak, second by Daniels to approve sediment testing at a cost of \$4,138. *Motion carried unanimously.*

**6. OLD BUSINESS.**

a. **Dance Hall Creek Analysis Grant Application.\*** This project incorporates two hydrologic restorations of wetlands, as well as channel restoration and a wetland restoration as a planned use

conversion from agricultural to large lot residential. The project addresses water quality issues downstream to Lake Sarah and protects/enhances natural resources in the area. The project is currently in the high-level conceptual design stage. The project was identified in the Dance Hall Creek Subwatershed Assessment. In 2022 it was determined that the project was not ready for application for a Clean Water Fund (CWF) grant. Since that time, Hennepin County has performed outreach and found most landowners are amenable to the project moving forward.

Spector noted that it is an expensive project, with a request for over 10% of the \$8.5 million pool of funds for the CWF grant in 2023. Spector recommended pursuing other sources of funding and moving the project to 30% design to further define the costs, benefits, and easement/access requirements of the project prior to submitting a CWF grant application. If multiple sources of funding are identified it would make the project more likely to be awarded a grant.

Guentzel recommended using remaining North Fork Crow WBIF funds to move the project to 30% design. MnDOT will need to be involved regarding holding any water back adjacent to Highway 55. The City of Greenfield is amenable to raising the elevation of Greenfield Road when that project occurs, which would be necessary for the wetland bounce project.

Since the land has changed from agricultural to large lot residential, the amount of phosphorus export has decreased, which has caused the cost per pound of phosphorus removal to increase, making the project less feasible. Landowner concerns include losing considerable land to water storage or having a large bounce when the water level changes by a few feet with each event.

Staff will work with Stantec to bring forward a scoping plan with costs to bring this project to 30% design for discussion at a future Commission meeting. The Commissioners decided not to submit a CWF grant for this project at this time.

**b. Dance Hall Creek Analysis Letters of Support.\*** The County has received letters of support for the project from two landowners. These will be important for future grant applications.

**7. NEW BUSINESS.**

**8. EDUCATION.**

**9. STAFF REPORTS.**

**a. Engineer's Report.\*** Engineering Staff are working on the GS68 stabilization and pond excavation. The topographic survey has been completed but the wetland delineation and design work are not yet done. Vistad will get quotes for the wetland delineation since Hakanson-Anderson no longer has a certified delineator on staff. Guentzel will check with the County delineator regarding availability. There is room in the budget for hiring a consultant if necessary.

**b. HCEE Report.\***

Davis is in the process of completing buffer inspections for the county. Only one parcel in the watershed will be inspected in 2023. All other parcels are within the Elm Creek watershed.



The **Shriners project** has begun installing fencing. The rest of the project is awaiting an amended plan from NRCS.

The **Vinland National Center** just north of Camp Iduhapi on Lake Independence is considering installing raingardens in and around the parking lot to control stormwater as phase one. Phase two would include addressing ravine erosion near the back lot which drains the most stormwater from the property directly to a wetland adjacent to Lake Independence. Phase two would involve a County Opportunity grant and cost-share funding from the Commission. Staff should have more information to present in September or October.

Bohland Development submitted two applications for Opportunity grants for above-and-beyond stormwater features at the **Bridgevine development**. One landowner in the development has also submitted a grant application for lakeshore restoration. The TAC will meet to review the project and make a recommendation for potential cost share funding by the Commission.

The County will send another **post card mailing** to the Lake Independence subwatershed residents in mid-September/early October to generate project leads in that area.

The **Lawns to Legumes** grant was opened for the state. Application deadline is September 30. The Minnesota Department of Agriculture has opened a **soil health grant** for purchasing or retrofitting soil health equipment. The deadline to apply is September 15.

c. **TRPD Report.** Vlach provided a copy of the **Opportunity grant application** he submitted on behalf of the Commission for review. This grant requests \$25,000 to supplement the Clean Water Fund grant for the second application to occur in 2024.

With recent rains, TRPD has been able to collect storm event sampling for monitoring. Lake sampling is ongoing. A windshield animal headcount was completed by Davis and TRPD staff and provided to Stantec for incorporation into the Lake Independence watershed model. Modeling information should be available for review at the September meeting.

#### 10. COMMISSIONER REPORTS.

The Loretto Fun Fest will be held on September 9, 2023.

#### 11. OTHER BUSINESS.

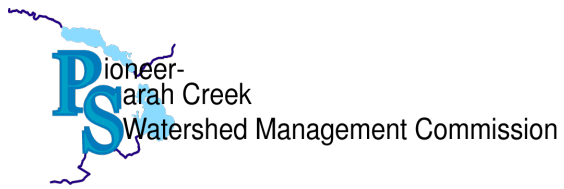
The **next regular meeting** is scheduled for September 21, 2023 at Maple Plain City Hall.

12. **ADJOURNMENT.** There being no further business, motion by Workcuff, second by Daniels to adjourn. The meeting was adjourned at 7:34 p.m.

Respectfully submitted,



Amy Juntunen



Administrator  
AAJ:tim

Z:\Pioneer-SarahCreek\Meetings\Meetings 2023\6 Minutes PSC.docx

**Pioneer-Sarah Creek Watershed  
Cash Disbursements Journal  
For the Period From Sep 1, 2023 to Sep 30, 2023**

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

<b>Date</b>	<b>Check #</b>	<b>Account ID</b>	<b>Line Description</b>	<b>Debit Amount</b>	<b>Credit Amount</b>
9/21/23	1697	50100	General Engineering June	399.95	
		66002	GS68 Pond Excavation Design -June	575.00	
		50100	General Engineering July	486.20	
		66002	GS68 Pond Excavation Design/Survey -July	5,025.00	
		10100	Hakanson Anderson Associates, Inc.		6,486.15
9/21/23	1698	63010	Public inquiries, conservation promotion, BMP implementation 1/1 - 6/31 2023	9,068.86	
		10100	Hennepin County Treasurer		9,068.86
9/21/23	1699	51100	Administration	1,133.95	
		51100	Meeting-related	932.94	
		51100	Bookkeeping	775.33	
		51400	Website	18.75	
		51120	Project Review Support	171.12	
		52000	TAC and Convene Meetings	142.25	
		10100	Judie Anderson's Secretarial Service		3,174.34
9/21/23	1700	57004	Grant Application - Dance Hall Creek SWA	2,925.00	
		10100	Stantec Consulting Services, Inc.		2,925.00
<b>Total</b>				<b>21,654.35</b>	<b>21,654.35</b>

# INVOICE SUMMARY FROM HAKANSON ANDERSON

PIONEER SARAH WATERSHED MANAGEMENT COMMISSION

INVOICES FOR JUNE 2023

Project ID & Description	Invoice Number	Invoice Date	Amount
PSC401 GS68 POND EXCAVATION	51123	07/26/23	575.00
PSC901-2023 GENERAL ENGINEERING FOR PIONEER SARAH WMC 2023	51124	07/26/23	399.95
			<b>974.95</b>



3601 Thurston Avenue  
Suite 101  
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission  
3235 Fernbrook Lane  
Plymouth, MN 55447

Invoice number 51123  
Date 07/26/2023

Project **PSC401 GS68 POND EXCAVATION**

Professional Services Provided Through 06/30/2023

## DESIGN

### Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad <i>PREPARE SEDIMENT TESTING RFP</i>	06/16/2023	3.00	115.00	345.00
Andrew Vistad <i>PREPARE SEDIMENT TESTING RFP</i>	06/21/2023	2.00	115.00	230.00
<b>PROFESSIONAL FEES SUBTOTAL</b>				<b>575.00</b>
<b>DESIGN SUBTOTAL</b>				<b>575.00</b>
<b>AMOUNT DUE THIS INVOICE</b>				<b>575.00</b>
		Current Billed	Prior Billed	Total Billed
<b>Invoice Summary</b>				
<b>Total</b>		<b>575.00</b>	<b>0.00</b>	<b>575.00</b>



3601 Thurston Avenue  
Suite 101  
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission  
3235 Fernbrook Lane  
Plymouth, MN 55447

Invoice number 51124  
Date 07/26/2023

Project **PSC901-2023 GENERAL ENGINEERING  
FOR PIONEER SARAH WMC 2023**

Professional Services Provided Through 06/30/2023

## GENERAL ENGINEERING

### Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad MONTHLY MEETING	06/15/2023	3.25	115.00	373.75
<b>PROFESSIONAL FEES SUBTOTAL</b>				<b>373.75</b>

### Reimbursables

	Date	Units	Rate	Billed Amount
MILEAGE	06/15/2023	40.00	0.655	26.20
<b>REIMBURSABLES SUBTOTAL</b>				<b>26.20</b>
<b>GENERAL ENGINEERING SUBTOTAL</b>				<b>399.95</b>

**AMOUNT DUE THIS INVOICE 399.95**

Invoice Summary		Current Billed	Prior Billed	Total Billed
	Total	399.95	2,461.19	2,861.14

# INVOICE SUMMARY FROM HAKANSON ANDERSON

PIONEER SARAH WATERSHED MANAGEMENT COMMISSION

INVOICES FOR JULY 2023

Project ID & Description	Invoice Number	Invoice Date	Amount
PSC401 GS68 POND EXCAVATION	51379	08/31/23	5,025.00
PSC901-2023 GENERAL ENGINEERING FOR PIONEER SARAH WMC 2023	51380	08/31/23	486.20
			<b>5,511.20</b>



3601 Thurston Avenue  
Suite 101  
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission  
3235 Fernbrook Lane  
Plymouth, MN 55447

Invoice number 51379  
Date 08/31/2023

Project **PSC401 GS68 POND EXCAVATION**

Professional Services Provided Through 07/31/2023

## DESIGN

### Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad <i>SEDIMENT CORE RFQ</i>	07/25/2023	1.00	115.00	115.00
<b>PROFESSIONAL FEES SUBTOTAL</b>				<b>115.00</b>
<b>DESIGN SUBTOTAL</b>				<b>115.00</b>

## SURVEY

### Professional Fees

	Date	Hours	Rate	Billed Amount
Isaiah Bettinger <i>TOPOGRAPHIC SURVEY</i>	07/20/2023	10.00	85.00	850.00
Kyle Anderson <i>TOPOGRAPHIC SURVEY</i>	07/20/2023	10.00	112.00	1,120.00
Isaiah Bettinger <i>TOPOGRAPHIC SURVEY</i>	07/24/2023	10.00	85.00	850.00
Kyle Anderson <i>TOPOGRAPHIC SURVEY</i>	07/24/2023	10.00	112.00	1,120.00
Michael Sobiech <i>DRAFT TOPOGRAPHY</i>	07/27/2023	2.50	108.00	270.00
<b>PROFESSIONAL FEES SUBTOTAL</b>				<b>4,210.00</b>

### Reimbursables

	Date	Units	Rate	Billed Amount
ROBOTIC TOTAL STATION/GPS	07/20/2023	10.00	35.00	350.00
ROBOTIC TOTAL STATION/GPS	07/24/2023	10.00	35.00	350.00
<b>ROBOTIC TOTAL STATION/GPS SUBTOTAL</b>				<b>700.00</b>
<b>REIMBURSABLES SUBTOTAL</b>				<b>700.00</b>
<b>SURVEY SUBTOTAL</b>				<b>4,910.00</b>
<b>AMOUNT DUE THIS INVOICE</b>				<b>5,025.00</b>



Invoice Summary		Current Billed	Prior Billed	Total Billed
Total		5,025.00	575.00	5,600.00



3601 Thurston Avenue  
Suite 101  
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission  
3235 Fernbrook Lane  
Plymouth, MN 55447

Invoice number 51380  
Date 08/31/2023

Project **PSC901-2023 GENERAL ENGINEERING  
FOR PIONEER SARAH WMC 2023**

Professional Services Provided Through 07/31/2023

## GENERAL ENGINEERING

### Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad	07/14/2023	1.50	115.00	172.50
<i>DISCUSSION REGARDING CIP AND GRANT APPLICATION FOR POTENTIAL PROJECT</i>				
Andrew Vistad	07/20/2023	2.50	115.00	287.50
<i>MONTHLY MEETING</i>				
<b>PROFESSIONAL FEES SUBTOTAL</b>				<b>460.00</b>

### Reimbursables

	Date	Units	Rate	Billed Amount
MILEAGE	07/21/2023	40.00	0.655	26.20
<b>REIMBURSABLES SUBTOTAL</b>				<b>26.20</b>
<b>GENERAL ENGINEERING SUBTOTAL</b>				<b>486.20</b>
<b>AMOUNT DUE THIS INVOICE</b>				<b>486.20</b>

Invoice Summary	Current Billed	Prior Billed	Total Billed
Total	486.20	2,861.14	3,347.34


**Hennepin County**  
**Public Works**
**Department of Environment and Energy**  
 701 Fourth Avenue South, Suite 700  
 Minneapolis, Minnesota 55415-1842

 612-348-3777, Phone  
 612-348-8532, Fax  
[hennepin.us/environment](http://hennepin.us/environment)
**Bill To:**
**Pioneer-Sarah Creek Watershed Management Commission**  
**3235 Fernbrook Lane**  
**Plymouth, MN 55447**
**Invoice**
**Date**

8/23/23

**Contract A2311706**
**Total Amount Due**
**Description**  
**2023 Invoice 1 (January 1 to June 30, 2023)**
**Task 1: Meeting Attendance & Staff Report**
**Task 2: Respond to inquiries from the public, conservation promotion in targeted subwatersheds, and BMP implementation project development and construction**
**\$9,068.86**

- a. Lake Independence  
Hours: 34  
Value: \$2,448.31
- b. Dance Hall Creek  
Hours: 30.5  
Value: \$2,135.40
- c. Lake Rebecca  
Hours: 114.25  
Value: \$7,931.61
- d. Spurzem Creek  
Hours: 14.5  
Value: \$1,029.44
- e-g. Other  
Hours: 61.75  
Value: \$4,592.97

TOTAL HOURS: 255

TOTAL VALUE: \$18,137.72

- 50% TOTAL: \$9,068.86

AMOUNT DUE: \$9,068.86

Task 2 NTE: \$12,000

Amount Remaining: \$2,931.14

<p><b>Task 3: Project implementation in priority subwatersheds</b></p> <ul style="list-style-type: none"> <li>• Task 3 NTE: \$272,379</li> <li>• Amount Remaining: \$272,379</li> </ul> <p><i>(To be invoiced upon completion of projects)</i></p> <p><b>Task 4: Other Project Implementation</b></p> <ul style="list-style-type: none"> <li>• Task 4 NTE: As mutually agreed</li> <li>• Amount Remaining: N/A</li> </ul> <p><b>Task 5: Subwatershed Assessment Projects</b></p> <ul style="list-style-type: none"> <li>• Task 5 NTE: \$51,250</li> <li>• Amount Remaining: \$51,250</li> </ul>	
	<p><b>AMOUNT DUE</b> <b>\$9,068.86</b></p>

Make check payable to: Hennepin County Treasurer

Invoice (please include as reference on payments): 1000211435

Remit to: Hennepin County Accounts Receivable  
300 South 6<sup>th</sup> Street  
Mail Code 129  
Minneapolis, MN 55487

Direct questions to: Karen Galles 612-235-0712



Pioneer-Sarah Creek Watershed Management Commission  
3235 Fernbrook Lane Plymouth, MN 55447

3235 Fernbrook Lane  
Plymouth MN 55447

September 15, 2023

**Total Project Area**

**Total Project Area**

General Administration

Administrative		70.00	0.000		
Administrative	3.13	75.00	234.750		
Administrative - virtual		80.00	0.000		
Handbook		75.00	0.000		
Office Support	10.00	75.00	750.000		
Public storage	1.00	109.48	109.480		
Data Processing/File Mgmt	0.50	70.00	35.000		
Archiving		70.00	0.000		
Reimbursable Expense	4.72	1.00	4.720	1,133.950	Administration

Meeting packets, attendance, Minutes and Meeting follow-up

Administrative		70.00	0.000		
Administrative	6.89	75.00	516.750		
Admin - offsite	3.33	80.00	266.400		
Reimbursable Expense	149.79	1.00	149.790	932.940	Meeting-related activities

Bookkeeping, Budget, Audit Prep, Treas Report

Bookkeeping, budget, audit requests	9.33	75.00	699.750		
Budget - virtual		80.00	0.000		
Treasurer's Reports	0.83	75.00	62.250		
Audit Prep		70.00	0.000		
Audit Prep		75.00	0.000		
Reimbursable Expense	13.33	1.00	13.330	775.330	Bookkeeping/TRs

Website

Weebly hosting - 1 year		1.00	0.000		
Pages, links, uploads		75.00	0.000		
Administrative	0.25	75.00	18.750	18.750	Website

Project Reviews

Administrative		70.00	0.000		
Administrative	0.83	75.00	62.250		
File Management/Archiving		70.00	0.000		
Reimbursable Expense	108.87	1.00	108.870	171.120	Project Reviews

TAC and Convene Meetings

Secretarial		70.00	0.000		
Administrative	0.83	75.00	62.250		
Offsite - Virtual	1.00	80.00	80.000		
Reimbursable Expense		1.00	0.000	142.250	TAC and Convene

**3,174.340      3,174.340**

<b>Invoice Number</b>	2125693
<b>Invoice Date</b>	September 1, 2023
<b>Purchase Order</b>	—
<b>Customer Number</b>	165749
<b>Project Number</b>	227706192

**Bill To**

Pioneer-Sarah Watershed Management Commission  
Accounts Payable  
3235 Fernbrook Lane  
Plymouth MN 55447  
United States

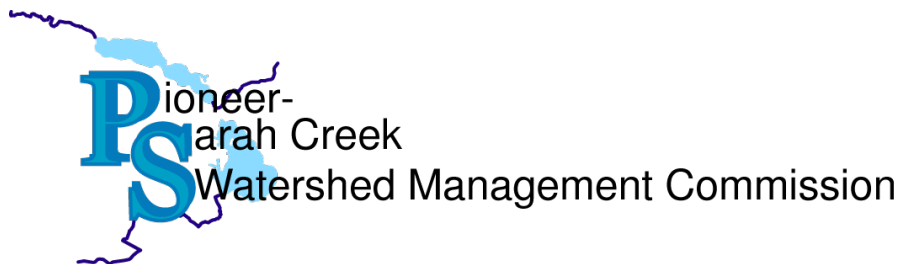
**Please Remit To**

Stantec Consulting Services Inc. (SCSI)  
13980 Collections Center Drive  
Chicago IL 60693  
United States

<b>Project</b>	<b>Dance Hall Creek SWA Update Clean Water Fund Grant Assistance</b>
Project Manager	Spector, Diane F Contract Upset 3,028.00
Current Invoice Total (USD)	2,925.00 Amount Billed to Date 2,925.00
	For Period Ending <b>August 25, 2023</b>

<b>Top Task</b>	<b>100</b>	<b>Prepare Grant Application</b>		
<u>Professional Services</u>				
<b>Category/Employee</b>			<b>Current Hours</b>	<b>Rate</b>
		Spector, Diane F	15.00	195.00
		<b>Subtotal Professional Services</b>	<u>15.00</u>	<u>2,925.00</u>
Top Task Subtotal	Prepare Grant Application			2,925.00
	<b>Total Fees &amp; Disbursements</b>			<u>2,925.00</u>
	<b>INVOICE TOTAL (USD)</b>			<b>2,925.00</b>

**Net Due in 30 Days or in accordance with terms of the contract**



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447  
 763.553.1144 • Fax: 763.553.9326 • Email: judie@jass.biz  
 TECHNICAL OFFICE: 3601 Thurston Avenue • Anoka, MN 55303  
 Phone: 763-427-5860 • Fax: 763-427-0520 •  
 Email: andrewv@haa-inc.com

## **Pioneer Trail Paving Project** **Greenfield, Project #2023-004**

**Project Overview:** The city of Greenfield is proposing to widen and pave roughly 1,600 feet of Pioneer Trail from County Road 10 (Woodland Trail) to the south. The project will disturb roughly 1.8 acres of land and result in the creation of approximately 0.1 acres of new impervious surfacing. The Commission's management plan requires compliance for Erosion Control (Rule E).

**Applicant:** City of Greenfield, 7738 Commerce Circle, Greenfield, MN 55373. Phone: 763-477-6464. Email: cityhall@greenfield.mn.us

**Agent/Engineer:** Hakanson Anderson Att Matt Kind, 3601 Thurston Avenue, Anoka, MN 55303. Phone: 763-427-5860. Email: matthewk@haa-inc.com

### **Exhibits:**

- 1) PSCWMC Request for Plan Review received September 7, 2023
- 2) Project review fees for project, \$600
- 3) Civil Plans, dated August 26<sup>th</sup>, 2023
- 4) Stormwater Pollution Prevention Plan, dated September 14, 2023

### **Findings:**

- 1) An application was received September 7, 2023. The initial 60-day decision period expires on November 6, 2023.
- 2) The applicant proposes to improve 1,600 feet of rural residential roadway.
- 3) The City of Greenfield is the LGU in charge of administering the 1991 Wetland Conservation Act on this site.
  - 354 square feet of incidental wetland are proposed to be impacted..
  - 76 square feet of wetland are proposed to be impacted and mitigated.
  -

**Erosion and Sediment Controls (Rule E):**

- 1) Land disturbing activities of greater than 1 acre, either individual or part of a larger common plan, require a SWPPP and are required to apply for a NPDES/SDS construction permit. The proposed development will cause more than 1 acre of disturbance. The stormwater discharge will not be directed nor is it located within 1 mile of a documented impaired surface water. A SWPPP has been provided that appears to meet watershed rules and state guidelines.

**Recommendation:** Approval

Advisor to the Commission

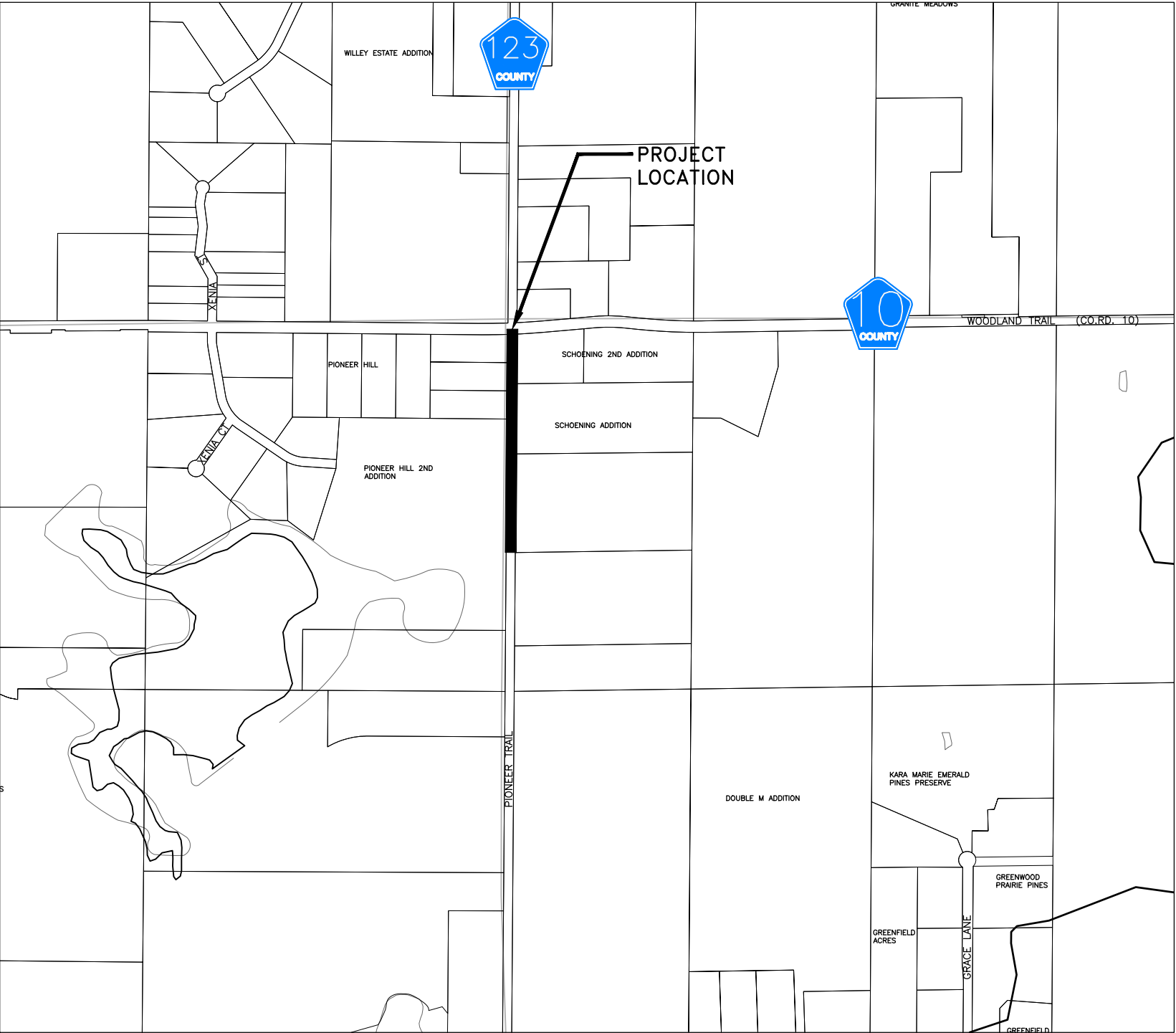


Andrew Vistad, PE

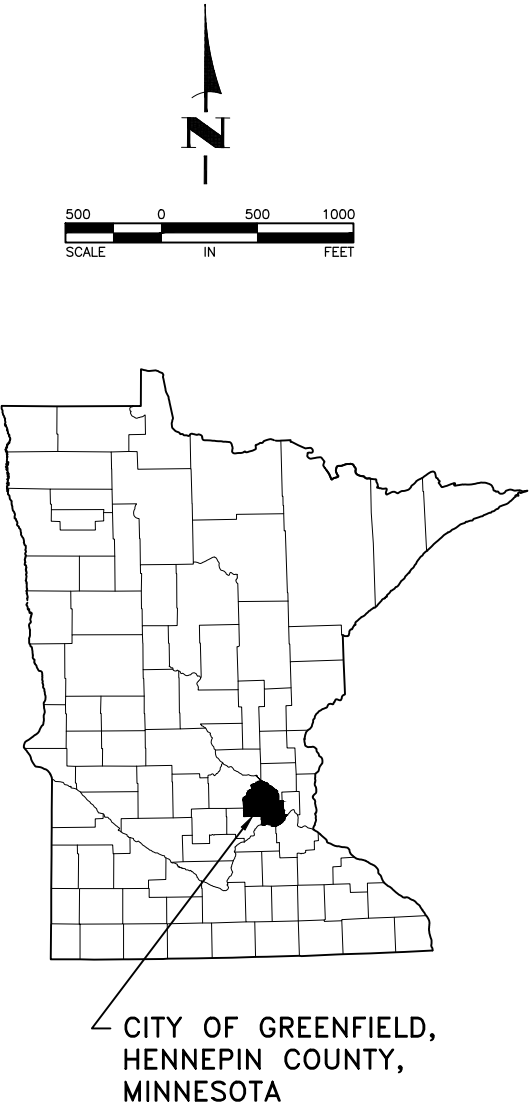
September 14, 2023  
Date



PIONEER TRAIL PAVING PROJECT  
GREENFIELD, MN



THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL APPLY.

THE 2013 EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATIONS SHALL APPLY.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.


ALL REQUIREMENTS OF THE PROJECT MANUAL FOR THE PIONEER TRAIL PAVING PROJECT SHALL APPLY.

SHEET INDEX

THIS PLAN CONTAINS 13 SHEETS

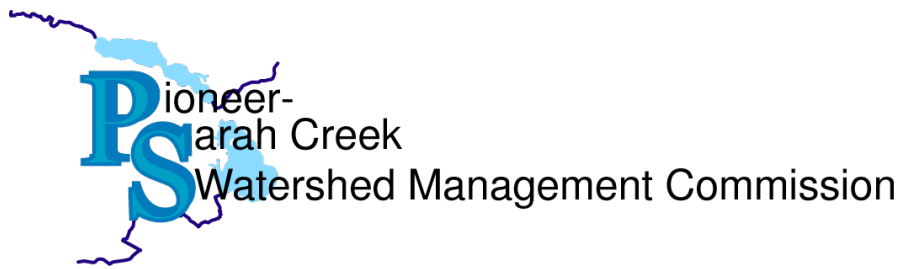
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	DETAILS
3-4	EROSION CONTROL PLAN
5-6	EXISTING CONDITIONS & REMOVALS
7-10	CONSTRUCTION PLAN
11	TRAFFIC CONTROL - ROAD DETOUR
12-13	CROSS SECTION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

  
RONALD J. WAGNER, P.E.  
HAKANSON ANDERSON  
DESIGN ENGINEER

26052 DATE 8/25/2023  
LIC. NO.

DATE	REVISION



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447  
 763.553.1144 • Fax: 763.553.9326 • Email: judie@jass.biz  
 TECHNICAL OFFICE: 3601 Thurston Avenue • Anoka, MN 55303  
 Phone: 763-427-5860 • Fax: 763-427-0520 •  
 Email: andrewv@haa-inc.com

## **CenterPoint Energy Greenfield Conversion** **Greenfield, Project #2023-005**

**Project Overview:** CenterPoint energy has submitted a project for plan review that includes the installation of approximately 4,860 feet of 4-inch plastic natural gas pipeline. The project is expected to disturb roughly 0.6 acres with some of the disturbance located adjacent to wetland as well as within documented floodplain. The site is not located within 1 mile of nor does it directly discharge into an impaired surface water. The Commission's management plan requires compliance for Erosion Control (Rule E) and Floodplain Alteration (Rule F)

**Applicant:** CenterPoint Energy, 700 West Linden Ave, Minneapolis, MN 55403. Phone: 612-321-5469. Email: madelyn.nierengarten@centerpointenergy.com

**Agent/Engineer:** Merjent, Inc. Attn Mark Sutton, 1 SE Main Street Suite 300, Minneapolis, MN 55414. Phone: 612-579-1970. Email: mark.sutton@merjent.com

### **Exhibits:**

- 1) PSCWMC Request for Plan Review received September 14, 2023
- 2) Project review fees for project, \$650
- 3) Civil Plans, dated August 28<sup>th</sup>, 2023

### **Findings:**

- 1) An application was received September 14, 2023. The initial 60-day decision period expires on November 13, 2023.
- 2) The applicant proposes to install 4,860 feet of 4-inch plastic gas pipeline.
- 3) The City of Greenfield is the LGU in charge of administering the 1991 Wetland Conservation Act on this site.
  - No permanent wetland impacts are proposed as part of this site plan.

**Erosion and Sediment Controls (Rule E):**

- 4) Land disturbing activity is proposed to be protected on the downstream gradient in all locations by silt fence. Construction disturbance adjacent to or within wetlands is proposed to have redundant erosion control installed.

**Floodplain Alteration (Rule F):**

- 5) The applicant is proposing part of their project to be located within the FEMA flood plain. The project will not result in placement of permanent fill within the floodplain and compensatory storage is not required.

**Recommendation:** Approval

Advisor to the Commission

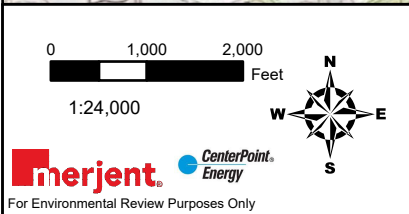
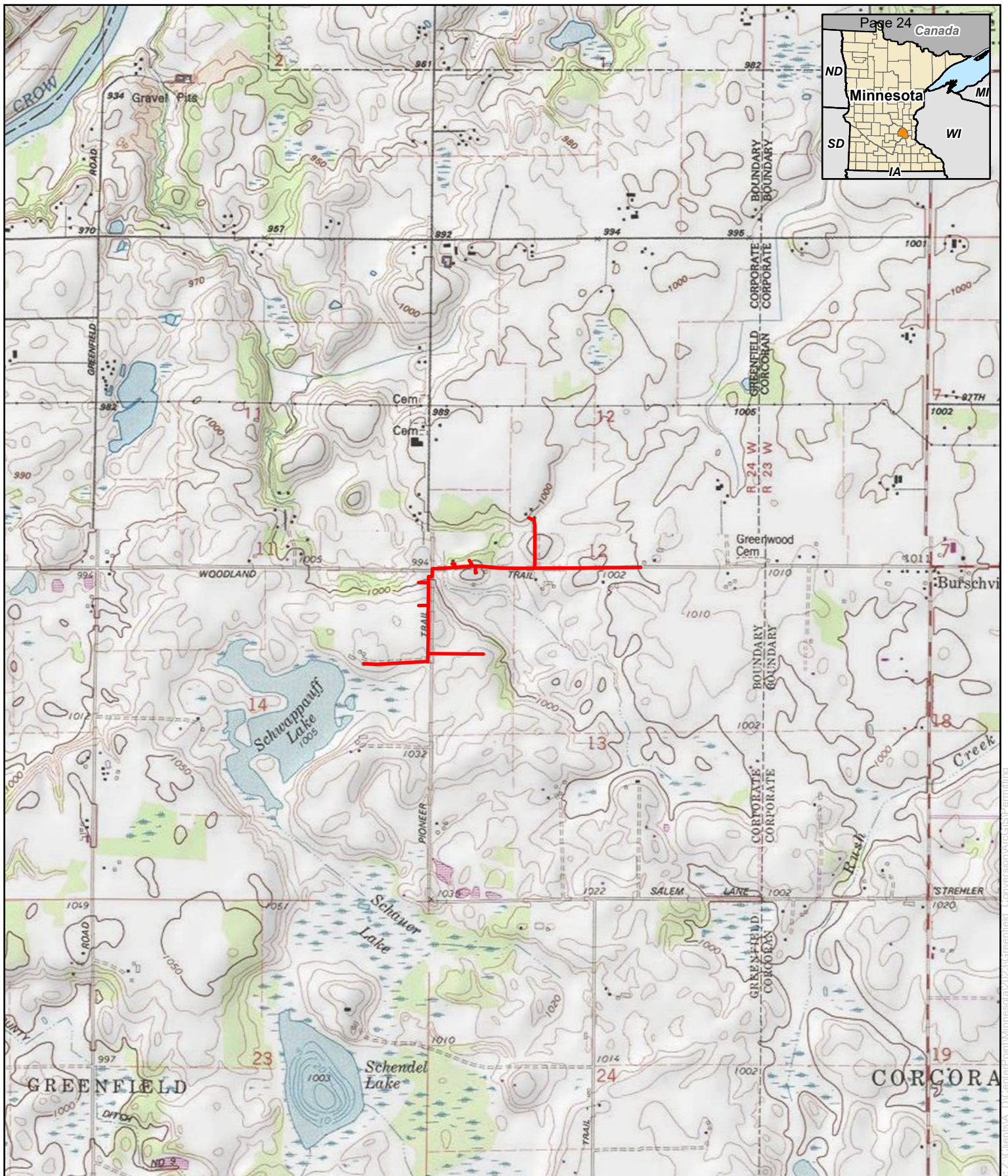


Andrew Vistad, PE

September 14, 2023

Date





**Figure 1: Site Location Map**  
**Greenfield Conversion**  
**Project (WO# 108580140)**  
**CenterPoint Energy**  
**Greenfield, Hennepin County, Minnesota**

— Proposed Pipeline





September 15, 2023

Conservation Partners Legacy Grant Program  
MN DNR  
500 Lafayette Road  
Box #20  
St. Paul, MN 55155

Dear CPL Grant Reviewer,

On behalf of Pioneer-Sarah Creek Watershed Management Commission (PSCWMC), I am pleased to submit this letter of support for Three Rivers Park District and their proposed partner project at Kingswood Park within our watershed. The park protects some of the most pristine and unique natural features in western Hennepin County, and we support this effort to address an urgent natural resources need.

We believe the engineered solution will address the sediment and erosion problem to improve habitat conditions and protect Kingwood Pond. Three Rivers is a trusted partner and well-suited to apply their expertise and lead the work. They have delivered on several other projects designed to protect water resources in our geography, including the Lake Independence – Baker Ravine restoration project completed in 2020.

We understand that Hennepin County and City of Minnetrista are also contributing partners for this project, and we look forward to the outcomes that aim to provide multiple benefits and add resilience to the natural systems at Kingswood Park.

Joe Baker, Chair  
Pioneer-Sarah Creek Watershed Management Commission

Implementing Partners,

On August 24, 2023, the Minnesota Board of Water and Soil Resources approved the FY24-25 Watershed Based Implementation Funding (WBIF) Program.

- [FY24-25 WBIF Program Policy](#)
- [Board Order 23-55](#) (includes allocation amounts and availability by fiscal year)

To be eligible for funding, watershed implementation partnerships must have a state approved and locally adopted plan (see [policy](#)).

**Process:** WBIF grants involve two steps that require BWSR approval.

1. The grantee makes a [funding request](#) in eLINK. Note that this step must be done by an eLINK user from the organization that will sign the grant agreement.
2. The partnership completes the final work plan.

**Timelines:** The funding request in eLINK is now open. BWSR will process funding requests and workplans on a monthly basis. **NEW!** Requests in draft DO NOT expire at the end of the month.

- **Funding Requests Open** (see Tables 1 and 2 of [Board Order 23-55](#)):
  - Allocation Year\* 2024: beginning September 5, 2023.
  - Allocation Year\* 2025: beginning July 1, 2024.
- All grant agreements must be executed by June 1 of the fiscal year in which the funding request was started. Funding requests should be submitted by April 30 of the fiscal year in which the grant will be executed.

*Refers to fiscal years: 2024= July 1, 2023 – June 30-2024. 2025: July 1, 2024 – June 30, 2025.*

#### **Grant Agreement Expiration Dates:**

- Grant agreements executed in FY2024 will expire on December 31, 2026.
- Grant agreements executed in FY2025 will expire on December 31, 2027.

**NEW - Tribal Coordination.** BWSR added a provision to the [FY24-25 WBIF policy](#) making Minnesota Tribal Nations (“tribes”) eligible for WBIF. BWSR’s tribal liaison will work with tribes to determine their level of interest in participating in plan implementation. BWSR’s tribal liaison will notify groups where there may be tribal interest and, where needed, BWSR’s tribal liaison will support / facilitate discussions about incorporating funding for eligible activities to tribes in WBIF grant work plans.

If you have any questions regarding the WBIF program, please contact your Board Conservationist or Clean Water Specialist.

Sincerely,  
Annie Felix-Gerth and Julie Westerlund

**Table 2. FY 2024-2025 WBIF Grant Seven County Metro Allocations**

<b>1W1P Planning Area #</b>	<b>Metro Watershed Planning Area (WPA) or 1W1P Name</b>	<b>FY24-25 Funding Amount</b>	<b>Allocation Year</b>
Metro	Bassett Creek WPA	\$ 183,256	2025
Metro	Black Dog WPA	\$ 151,542	2025
54	Cannon River (Metro)	\$ 395,361	2025
Metro	Capitol Region WPA	\$ 176,241	2025
Metro	Carver County WPA	\$ 721,325	2025
Metro	Coon Creek WPA	\$ 294,100	2025
Metro	Eagan-Inver Grove WPA	\$ 162,370	2025
Metro	Elm Creek WPA	\$ 373,590	2025
Metro	Lower Minnesota River WPA	\$ 217,485	2025
Metro	Lower Mississippi River WPA	\$ 208,410	2025
29	Lower St. Croix River (Metro)	\$ 1,266,380	2025
Metro	Minnehaha Creek WPA	\$ 424,534	2025
Metro	Mississippi WPA	\$ 176,951	2025
Metro	Nine Mile Creek WPA	\$ 195,026	2025
Metro	Pioneer-Sarah Creek WPA	\$ 240,415	2025
Metro	Prior Lake-Spring Lake WPA	\$ 169,935	2025
Metro	Ramsey Washington Metro WPA	\$ 230,182	2025
Metro	Rice Creek WPA	\$ 448,016	2025
Metro	Richfield-Bloomington WPA	\$ 114,644	2025
Metro	Riley-Purgatory-Bluff Creek WPA	\$ 197,194	2025
15	Rum River (Metro)	\$ 569,378	2025
Metro	Scott County WPA	\$ 646,054	2025
Metro	Shingle Creek WPA	\$ 191,662	2025
Metro	South Washington WPA	\$ 228,539	2025
Metro	Vadnais Lake Area WPA	\$ 147,921	2025
Metro	Vermillion River WPA	\$ 717,191	2025
Metro	West Mississippi WPA	\$ 152,299	2025
<b>Metro Subtotal</b>		<b>\$ 9,000,000</b>	



# HENNEPIN COUNTY

MINNESOTA





# History

- Parcel owned by farmer;  
corn/soybeans and orchard
- Site visit in July 2023

Hennepin County

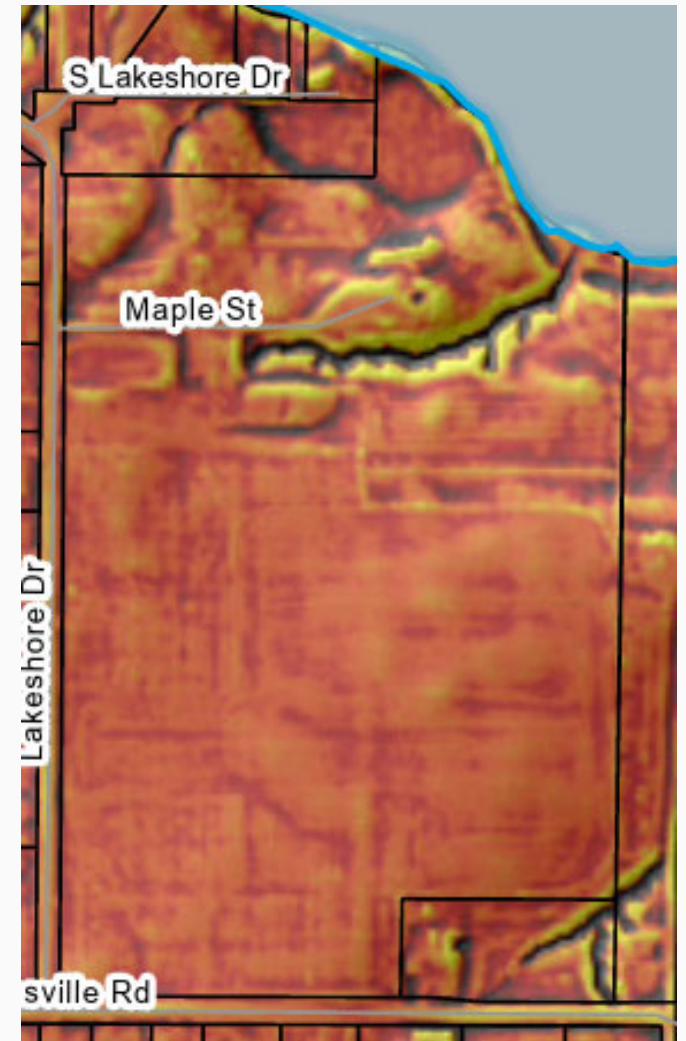






Hennepin County

2023 NearMap imagery



DNR Hydrographic Position Index (HPI)

# Note on gully formation

- Gullies erode downstream to upstream
- As soil erodes from bottom of gully, continues cutting and increases risk of sloughing
- General remediation measures include grade stabilization, check dams, cross vanes, revegetation, filling in smaller sections, re-sloping



Existing weir structure (one of two)





In the ravine, looking upstream

Hennepin County





End of ravine, closest to Lake  
Independence

Hennepin County





Depth of ravine compared to a pen

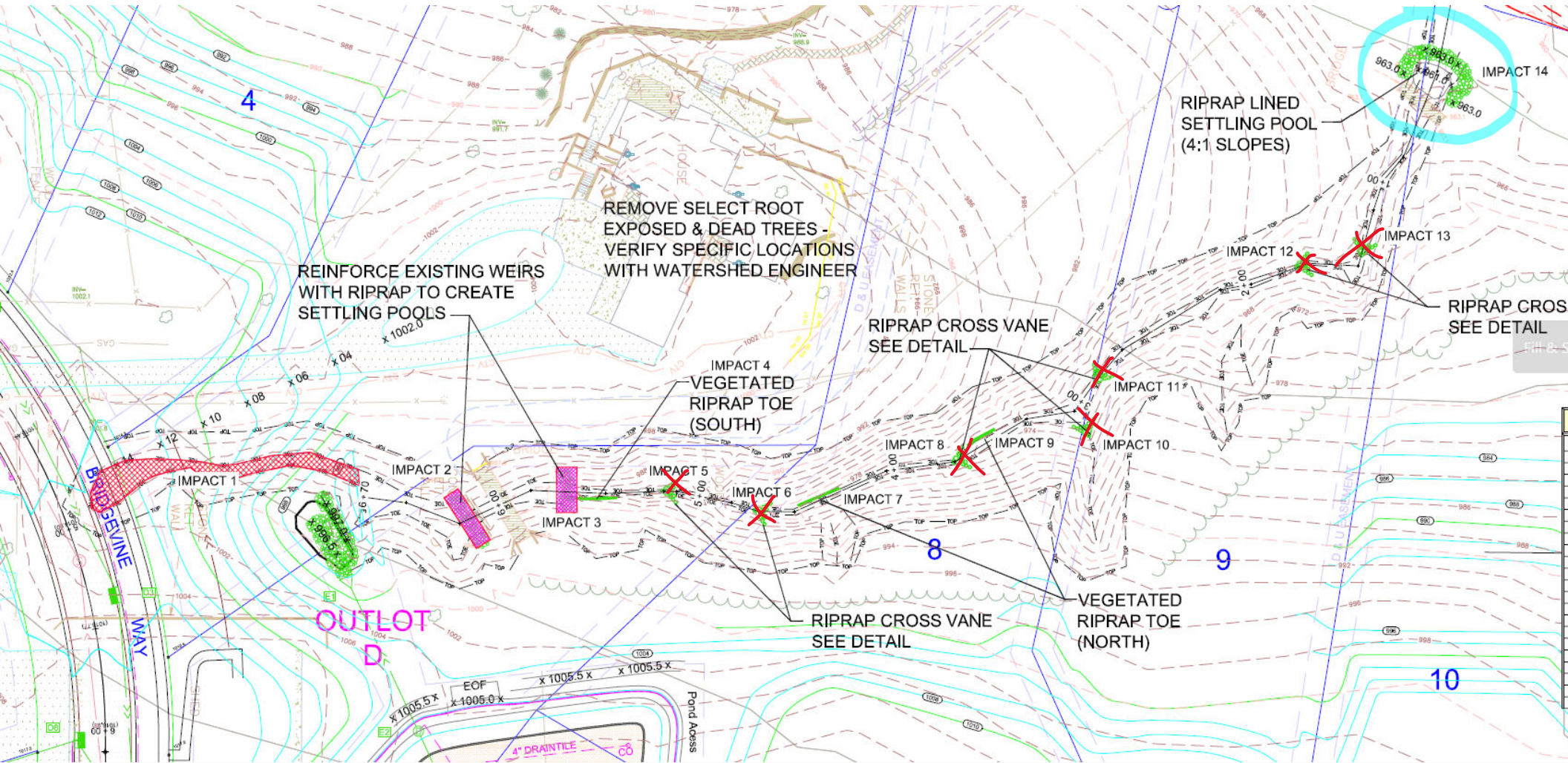
Hennepin County





# Proposed project

- Current stormwater permit requires ravine restoration
  - Permitted activities: riprap, grading work
- Certain “above and beyond” measures that may be eligible for cost share
  - Cross vanes
  - Sedimentation basin near lake



# Projected benefits

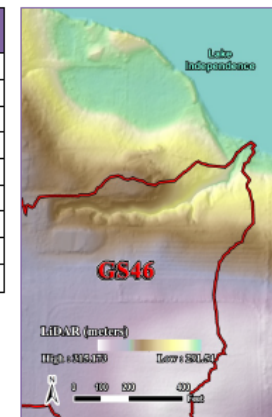
- GS46 in Lake Independence SWA (page 54)
- Restoration would remove an estimated 9.77 tons TSS/yr and 15.6 lbs TP/yr
  - Modeling assumed farming as land use; new land use is residential with stormwater ponds

Hennepin County

## 54 Project Profiles – Hydrologic Restorations

Site Detail – GS46 – Rock cross vanes, rip rap, bioengineering, revegetation					
Gully Segment	1	2	3	4	Total
Erosion Severity	Slight	Severe	Severe	Moderate	
Recession Rate (ft/yr)	0.05	0.4	0.4	.13	
Lower Gully Area (sq ft)	1166	1893	828	198	4085
Erosive Gully Area (sq ft)	233	379	166	40	817
Sediment Loss (tons/yr)	0.3	6.44	2.82	0.22	9.77
TP Loading (lbs/yr)	0.5	10.3	4.5	0.4	15.6
\$/lb-TP removal/yr	\$2,521	\$169	\$210	\$1,353	\$279
\$/lb-TSS removal/yr	\$2,017	\$136	\$168	\$1,082	\$223

Site Summary – GS46	
Water Body	Lake Independence
Watershed (acres)	19.1
City	Independence
Dominant Land Cover	Crop, Pasture
Average Slope (%)	7.2
Sediment Delivery Rate (%)	100
Project Life (yr)	20
Installation Cost (\$)	\$53,105
Promo/Design/Admin (\$)	\$26,000
Maintenance (\$)	\$8,180





# Funding request - BohLand

Project Cost	Landowner	County	Commission (thru CIP)	Commission (thru WBIF)
\$				
% of Installation	10%	10%	25%	55%

# Adelmann shoreline restoration

- Lots 9 and 10 within the BridgeVine development
  - Span about 2 acres and 235 feet of shoreline
  - Adjacent to ravine

Hennepin County



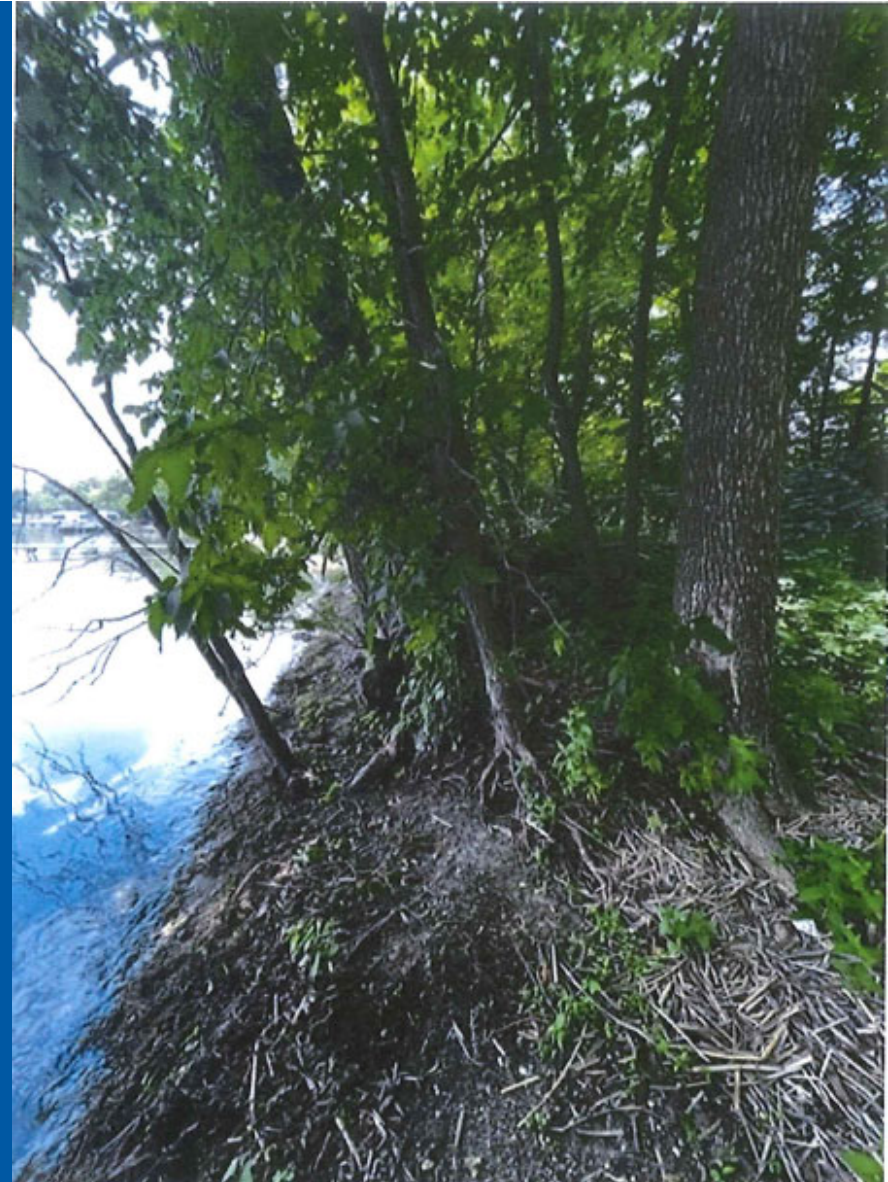




# Current issue

- Unmanaged lakeshore experiencing erosion
- Estimated soil loss of 9 tons TSS/yr and 16.56 lbs TP/yr
- Landowners would like to address this before home construction

Hennepin County



# Proposed project

- Projected reductions: 6.33 tons TSS/yr and 7.25 lbs TP/yr
- Three stages:
  - Grade inland to slope buffer areas, remove vegetation
  - Installing riprap per DNR guidance
  - Installing DNR recommended buffer zone planting on 125 ft of shoreline in low areas





Proposed Project Budget	
Project administration/management	\$5,000
Grading inland and removal of invasive species	\$7,000
Cost of riprap material	\$30,000
Installation of riprap	\$40,000
Cost of plant material	\$12,000
Installation of plant material and seeding graded area	\$16,000
<b>Total costs needed to complete:</b>	<b>\$110,000</b>

# Questions

# HENNEPIN COUNTY

## MINNESOTA

DATE: August 29<sup>th</sup>, 2023

TO: Pioneer-Sarah Creek Watershed Management Commission

FROM: Kris Guentzel and Roz Davis; Hennepin County Department of Environment and Energy

RE: REQUESTED COMMISSION ACTION, BridgeVine Ravine Restoration

---

## Project Overview

The BridgeVine development is located south of Lake Independence at the intersection of Perkinsville Road and South Lake Shore Drive, and spans nearly 48 acres. On the north end of the development is a substantial ravine leading directly into the lake. The ravine was identified in the 2014 Lake Independence-Lake Sarah Stormwater Retrofit Analysis (SRA) as a significant contributor of sediment and total phosphorus to the lake, due to its size and close proximity to Lake Independence.

A ravine stabilization was cited as a BMP opportunity in the Lake Independence-Lake Sarah SRA (see page 54 of the analysis). The gully encompasses about 817 square feet and receives stormwater runoff from 19.1 acres.

Prior to development the land was owned by a farmer, and previous efforts to engage the farmer in this ravine restoration were unsuccessful. Steve Bohl, the president of Bohland Development, bought the land in September 2022 and is currently developing it into 28 one+ acre residential lots. In July of 2023, Steve Bohl reached out to Hennepin County staff to ask about funding opportunities for restoring the ravine. Bohland Development also applied for an Opportunity Grant in 2023.

In October and November 2022, the stormwater management plan for this development was reviewed by PSCWMC. The plan was approved in November contingent to the developer addressing erosion in the ravine, which Bohland agreed to. Normal ravine restorations typically only involve grading work and riprap. In addition to the normal extent of restoration (grading and riprap), Bohland is planning to install “above and beyond” measures that will further enhance water quality. These include seven cross vanes and a sedimentation basin at the end of the ravine closest to Lake Independence. The cross vanes are represented by green triangles and the sedimentation basin is shown as a green half circle in the Ravine Impact Locations engineering plan (see attachment). Cost share funds would only be requested for these “above and beyond” measures.

Bohland anticipates the project will take approximately 90 days of work. Much of the equipment is already on site and they’ve already identified contractors to do the restoration. The subwatershed assessment estimated the ravine restoration would constitute a reduction of 9.77 tons sediment/year and 15.6 lbs phosphorus/year loading. It should be noted that those estimates assumed agricultural land use,

and the planned land use is residential. The 2014 cost estimate was \$53,105 and the projected cost-benefit was \$279/lb phosphorus.

Site Detail – GS46 – Rock cross vanes, rip rap, bioengineering, revegetation					
Gully Segment	1	2	3	4	Total
Erosion Severity	Slight	Severe	Severe	Moderate	
Recession Rate (ft/yr)	0.05	0.4	0.4	.13	
Lower Gully Area (sq ft)	1166	1893	828	198	4085
Erosive Gully Area (sq ft)	233	379	166	40	817
Sediment Loss (tons/yr)	0.3	6.44	2.82	0.22	9.77
TP Loading (lbs/yr)	0.5	10.3	4.5	0.4	15.6
\$/lb-TP removal/yr	\$2,521	\$169	\$210	\$1,353	\$279
\$/lb-TSS removal/yr	\$2,017	\$136	\$168	\$1,082	\$223



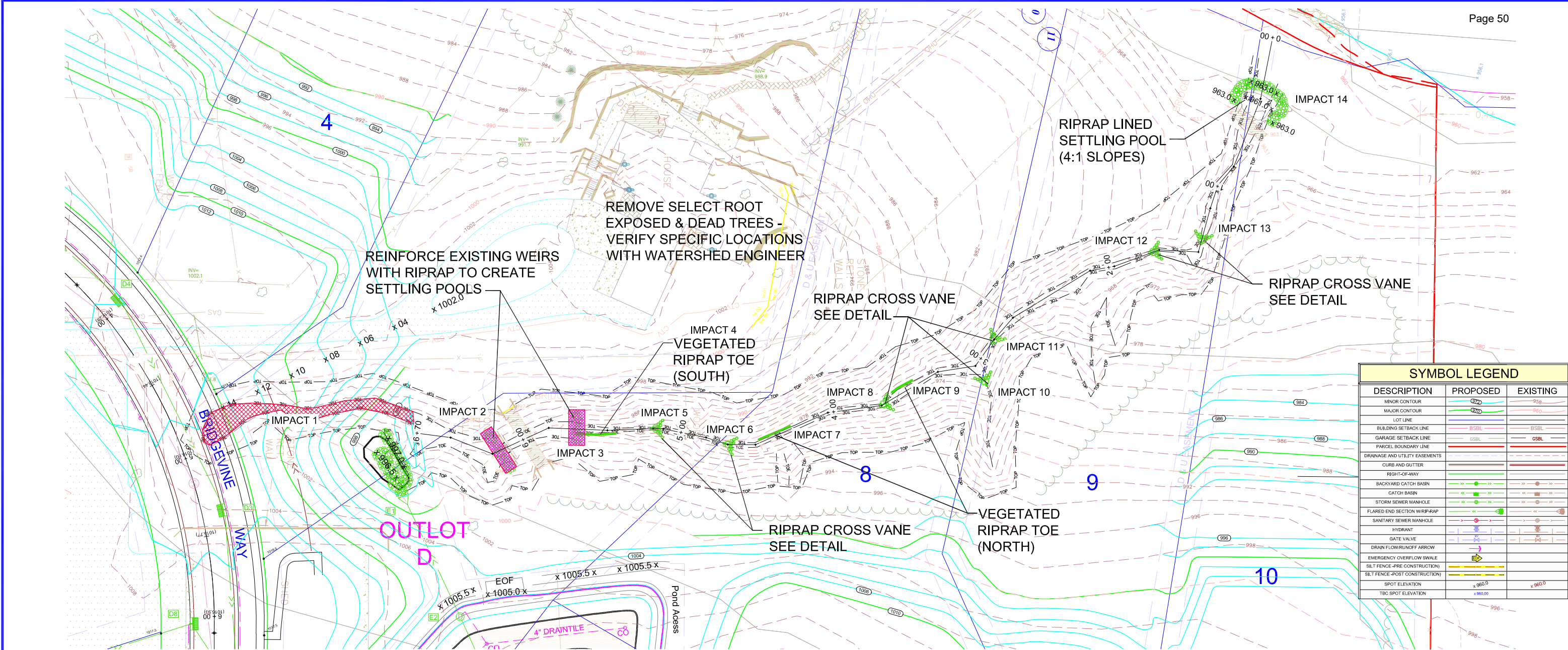
Site Summary – GS46	
Water Body	Lake Independence
Watershed (acres)	19.1
City	Independence
Dominant Land Cover	Crop, Pasture
Average Slope (%)	7.2
Sediment Delivery Rate (%)	100
Project Life (yr)	20
Installation Cost (\$)	\$53,105
Promo/Design/Admin (\$)	\$26,000
Maintenance (\$)	\$8,180



**TAC Questions:**

1. What are the costs for just the “above and beyond” measures (i.e., the cross vanes and sedimentation basin)?
2. Similarly, in the “BV Ravine Quantities for Pricing” document, which activities/materials are specifically related to the cross vanes and sedimentation basin?







3312 Red Fox Drive  
 Hamel MN 55340  
 Phone: 763-478-4565  
 Fax: 763-477-5827  
 www.designingnatureinc.com

## JOB ESTIMATE

**Date:** 3/1/2023  
**Job number:** 23304-3

**Designing Nature Inc is pleased to submit the following cost estimate:**

**Project:** *BridgeVine Ravine Restoration*  
*Bohland Homes*

**Terms:** Progress billing, Net 30 days,

Quantity	Description	Price	Total
	Scope of work		
	Estimate from Quantity's on survey from Sather -Bergquist Dated 9/16/22		\$129,170.00
	DNI will Install the following per Quantity's Provided Sather-Berquist		
	Mobilization/Grading		
	CL1 Rip Rap 24"-36"		
	CL 2 Rip Rap 18"-24"		
	Granular Filter Aggergate for Headwall and Footwall		
	6" Aggergate base Granular filter		
	Woven Type 2 Geotextile Fabric		
	Mn Dot Cat 3N Straw Erosion		
	Coir Erosion Control Material		
	Seed MN Dot Mix 36-21		
	Rip Rap Settling Pools		
	Erosion Blanket As Needed		
	<b>Exclusions</b>		
	Cleaning and Grubbing (trees/Brush)		
	Restoration Access Route		
	<b>Note</b>		
	If Bid is accepted DNI Requires to meet onsite with water shed		
	and Steve Bohl Before start of work		
	DNI will not proceed until we can have Rip Rap dumped onsite by		
	Bridge		

Accepted By: \_\_\_\_\_

Date: 3/1/23

Submitted by: Jeff Norman

Designing Nature Inc.

Date: 3/1/23

**PROJECT: BRIDGEVINE - RAVINE RESTORATION**

LOCATION : INDEPENDENCE, MINNESOTA

PREPARED FOR : BOHLAND BRIDGEVINE, LLC

PREPARED BY : SATHRE-BERGQUIST, INC.

DATE: FEBRUARY 16, 2023

Contractor:

DescriptionUnitBid  
QuantityUnit  
PriceAmount**Ravine Restoration**

Mobilization - Grading	L.S.	1.00			
Clearing & Grubbing (tree / brush removal~ approximately 150sf each)	each	14.00			
CL1 Rip-Rap -24"-30"	C.Y.	17.00			
CL2 Rip-Rap -18"-24"	C.Y.	90.00			
Granular Filter Aggregate in headwall & Footerwall to be Incidental to Cross Vane Construct	--	--			
6" Aggregate Base MnDOT 3601 B.1.B Granular Filter	TONS	10.00			
Woven Type 3 Geotextile Fabric	S.Y.	155.00			
MNDOT CAT 3N Straw 2S Erosion Control Blanket (natural netting only)	S.Y.	160.00			
Coir Erosion Control Material (biod-mat 40 woven bristle coir erosion control mat by Rolanka international Inc. or approved equal).	S.Y.	160.00			
Seed - MNDOT Mix 36-21 Woodland Edge - (34.5lbs/Ac)	Ac	0.05			
Rip-Rap - Settling Pools	C.Y.	65.00			
Erosion Blanket ( as needed)	S.Y.	10.00			
Restoration (Seed & Mulch - access route)	ACRE	0.50			
<b>Ravine Restoration Total -</b>					



# HENNEPIN COUNTY

## MINNESOTA

DATE: September 8<sup>th</sup>, 2023

TO: Pioneer-Sarah Creek Watershed Management Commission

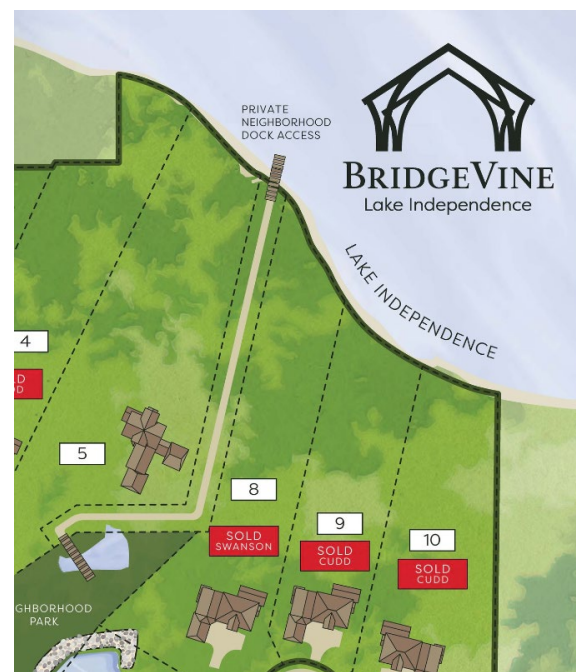
FROM: Kris Guentzel and Roz Davis; Hennepin County Department of Environment and Energy

RE: REQUESTED COMMISSION ACTION, BridgeVine Adelman Lakeshore Restoration

## Project Overview

The Adelman property is located within the BridgeVine Development, south of Lake Independence. The Adelmans own lots 9 and 10 that span about 2 acres and 235 feet of shoreline. Lots 9 and 10 are directly adjacent to the ravine. One home will be built on lot 10 (see diagram) but no home is planned for lot 9.

This project has not been identified by a local agency as a priority for restoration, although the ravine adjacent to it has been. This specific shoreline has not been maintained in the past and is experiencing erosion. It loses an estimated 6.75 tons TSS/yr and 12.42 lbs TP/yr. To address the erosion, riprap along with a vegetated buffer are being proposed.



*BridgeVine subdivision plans depicting lots 9 and 10*

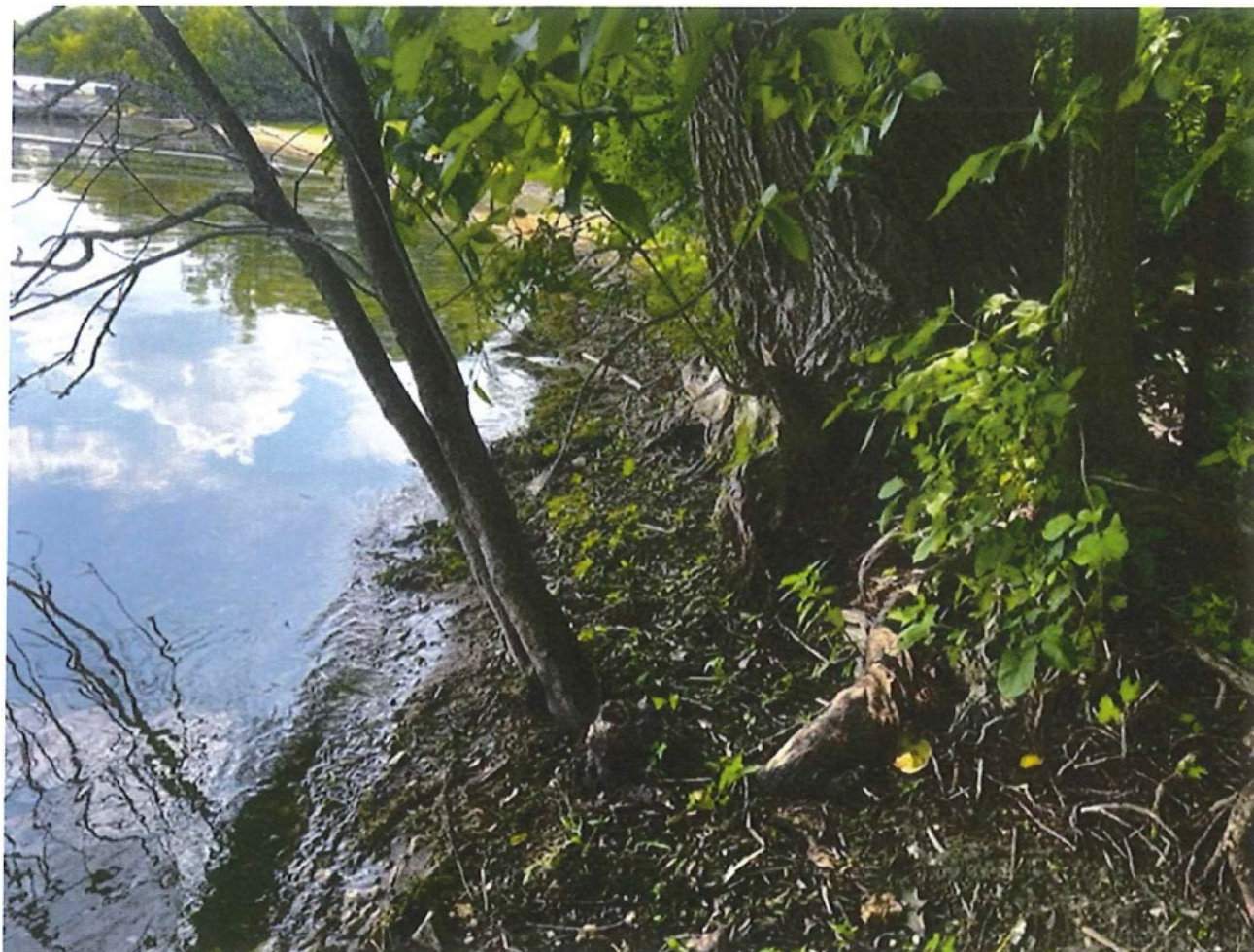
### Proposed project, pollution reductions, and cost-benefit

As proposed in their Opportunity Grant application, work is expected in three phases in fall 2023. During the first phase, they will grade the inland property to slope to buffer areas and remove invasive species in the area.

The second phase will install riprap according to DNR guidance. The final phase will install a DNR-recommended buffer zone planting on about 125 feet of the shoreline. This buffer zone will be specifically placed in low areas where water will be entering the lake, allowing natural water filtration.

Utilizing the Wisconsin NRCS direct volume method for estimating lateral lakeshore erosion along with the BWSR Pollution Reduction Calculator (as was used in the Lakes Sarah/Independence SWA), it's

estimated that this project would keep 6.75 tons TSS/yr along with 12.42 lbs TP/yr out of Lake Independence. These numbers only reference the lakeshore restoration, and do not include an estimate for the native plantings that would be installed on 125 feet of the 225-foot long shoreline. Cost benefit ratios are \$1,704/ton TSS/yr and \$930/lb TP/yr removed. These numbers are summarized in Table One. Table Two breaks down the cost of restoration activities.



*Picture of eroding lakeshore provided by landowner/contractor*

***Table One: Pollution reductions and cost-benefit***

<b>Total Suspended Sediment (TSS)</b>	
TSS reduction after stabilization	6.75 tons/yr kept out of Lake Independence
TSS cost-benefit	\$1,704/ton TSS/yr
<b>Total Phosphorus (TP)</b>	
TP reduction after stabilization	12.42 lbs/yr kept out of Lake Independence
TP cost-benefit	\$930/lb TP/yr

**Table Two: Proposed project budget**

<b>Task Elements</b>	<b>Total Project Cost</b>
Project administration/management	\$5,000
Grading inland and removal of invasive species	\$7,000
Cost of riprap material	\$30,000
Installation of riprap	\$40,000
Cost of plant material	\$12,000
Installation of plant material and seeding graded area	\$16,000
<b>Maintenance costs for 10-year lifespan (5% of project cost):</b>	\$5,500
<b>Total costs needed to complete:</b>	<b>\$115,500</b>

**TAC Questions:**

1. What is the proposed extent of riprap, and does it go to the Ordinary High Water Level (OHWL)?
2. Where exactly is the proposed location of the native plants?
3. How is grading being approached?

## MEMORANDUM

**TO:** Pioneer-Sarah Creek Watershed Management Commission  
**FROM:** Andrew Vistad, Hakanson-Anderson  
**DATE:** September 14, 2023  
**SUBJECT:** Staff Report

**See Previous staff reports for projects that were completed prior to December 31<sup>st</sup>, 2022**

9. **2019-08 Adams Pest Control, Medina.** Adam's Pest Control is planning to expand their current Medina facility. This property is located on the north side of State Highway 55, just west of Willow Drive. The entire parcel is 46-acres, but only the southern portion (Lot 1-26.6 acres) is being proposed for development at this time. This site plan consists of two new buildings which includes an office building and a warehouse/maintenance building with parking. This project will disturb 10.9 acres and create 4.6 acres of new impervious areas. The Commission's stormwater management plan requires compliance with Rules D, E, F and I.
  
10. **2022-01 Bushwood Hills Reserve.** is a 5 lot 34.8-acre residential development located in the City of Greenfield. The development is proposing to handle stormwater rate control with 4 Biofiltration basins located within the development. The bio-filtration basins and land use change are expected to reduce phosphorus runoff by 52% and total suspended solids runoff by 58%. Additionally, the bio-filtration basins are providing some abstraction that is working to reduce the volume of runoff that is leaving the site. The engineer has supplied a SWPPP for the development that meets all watershed rules. This project was reviewed for Rule D, Rule E, and Rule I.
  
11. **2022-003 Hilltop Prairie.** The Hilltop Prairie development is a 13 lot 62.6-acre residential development located in the City of Independence. The development is proposing to handle stormwater rate control with 4 NURP basins located within the development. Due to confining soils and high groundwater levels infiltration or filtration is not feasible. The applicant is creating sections of tree preservation and is also providing additional buffer to gain abstraction credits to offset the lack of infiltration. Additional wetland buffer and tree preservation generate 0.5" of credit over their proposed areas. Stormwater ponds within the development will be maintained by the property owners, an operations and maintenance declaration has been obtained and well be recorded with the lots. Water quality modeling for the site indicates that a 33% reduction in total phosphorus and a 60% reduction in total suspended solids will be achieved. This project was reviewed for Rule D, Rule E, and Rule I.
  
12. **2022-05 Koch Farm, Sanctuary.** The Koch Farm Sanctuary development is a 33 lot 141.4-acre residential development located in the City of Independence. The development is proposing to handle stormwater rate control with 9 NURP basins located within the development. Due to confining soils and high groundwater levels infiltration or filtration is not feasible. The applicant is creating sections of tree preservation and is also providing additional buffer to gain abstraction credits to offset the lack of infiltration. Additional wetland buffer and tree preservation generate 0.5" of credit over their proposed areas. Stormwater ponds within the

---

RULE D - STORMWATER MANAGEMENT

RULE E - EROSION AND SEDIMENT CONTROL

RULE F - FLOODPLAIN ALTERATION

*Language in red indicates current updates*

\* indicates enclosure

RULE G - WETLAND ALTERATION

RULE H - BRIDGE AND CULVERT CROSSINGS

RULE I - BUFFERS



development will be maintained by the property owners/HOA, an operations and maintenance declaration has been obtained and will be recorded with the lots. Water quality modeling for the site indicates that a 32% reduction in total phosphorus and a 56% reduction in total suspended solids will be achieved. A stream crossing for a mixed use path that connects this development with the development to the south was required by the City of Independence. This project was reviewed for Rule D, Rule E, Rule H, and Rule I.

13. **2022-06 Creekside Meadows**, is a 15 lot 79.2 acre residential development located within the City of Greenfield. The development is proposing to handle stormwater with 3 biofiltration basins. The bio-filtration basins and land use change are expected to reduce phosphorus runoff by 48% and total suspended solids runoff by 41%. Additionally, the bio-filtration basins are providing some abstraction that is working to reduce the volume of runoff that is leaving the site. The engineer has supplied a SWPPP for the development that meets all watershed rules. The developer has not supplied a buffer maintenance plan that outlines establishing the new wetland buffers. The project was reviewed for Rule D, Rule E, and Rule I.
  
14. **2022-10 Pioneer Highlands**, is a 67 acre rural residential development located in the city of Medina. The development is located roughly half in the Pioneer Sarah Creek Watershed and half in the Elm Creek Watershed. It was agreed that the project would need to obtain a permit from only PSC WMC providing communication with the Elm Creek watershed engineer. The site contains a large closed basin wetland on site. Ultimately the site would drain to both Spurzem Creek and Rush Creek South Fork. Additional wetland buffer was provided to meet stormwater abstraction requirements, to meet state stormwater requirements a wet sedimentation basin is being created to treat the stormwater generated from the shared private drives and some of the residences. The developer's engineer has reached out to discuss a modification to the development plans to provide a filtration basin and reduce some of the additional wetland buffer. The project was reviewed for Rule D, Rule E, and Rule I.
  
15. **2022-12 Bridgevine Subdivision**, is a 47.5 acre residential subdivision located within the City of Independence on the south shoreline of Lake Independence. The development is proposing to handle stormwater via curb and gutter with inlets and storm sewer. There will be 2 filtration basins and 2 rain gardens located within the development that will capture and treat the water quality volume before being discharged. The site generally flows in 3 directions, to the north discharging into an onsite gully that is identified in the Lake Independence and Lake Sarah SRA as GS46. The eastern part of the site discharges into an offsite gulley that is also identified in the Lake Independence and Lake Sarah SRA as GS50 or the Baker Park Ravine, which has recently been stabilized by a project lead by TRPD. The western portion of the site discharges under South Lake Shore Drive into an existing gully that eventually discharges into Pioneer Creek. The developer has revised and resubmitted plans that address the erosion that is taking place in GS46. A SWPPP has been provided and has been reviewed. The project was reviewed for Rule D, Rule E, and Rule I.



- 16. 2022-12 Bridgevine Grading Permit**, is a 47.5 acre residential subdivision located within the City of Independence on the south shoreline of Lake Independence. The developer has obtained a grading permit from the City of Independence to comment with grading activities relating to the Bridgevine subdivision project. To facilitate the developer will take the appropriate time to address some site concerns a grading permit will allow them to start construction. The project was reviewed for Rule E.
- 17. 2022-17 Kettering Creek 2nd**, is a 32 lot 9.29-acre residential development located within the City of Greenfield. The development is proposing to handle stormwater with a biofiltration basin. The development appears to be part of an existing development that was initially constructed in 2004. Stormwater from the site flows away in 4 general directions predominantly to the north and to the south. All of the stormwater from the site eventually converges within the Crow River. The project documentation contains some modeling errors and inconsistencies that need to be addressed. Additionally, the plans do not contain a SWPPP. Plans for this development have been resubmitted, due to the timing of their submission a review was not able to be completed for consideration at the April meeting. The project was reviewed for Rule D, Rule E, and Rule I.
- 18. 2022-18 Windsong Golf Club Expansion**, is a 125-acre golf club expansion project for the Windsong Farm Golf Club located in the City of Independence. Stormwater for the site generally flows in 2 directions. The central and eastern part of the site flow directly into Fox Lake which eventually discharges into Pioneer Creek to the north. The rest of the site not adjacent to Fox Lake drains to the west underneath Copeland Road to discharge into the Pioneer Creek. Stormwater for impervious surfacing is proposed to be treated by 2 bio-infiltration basins to meet the 1.1" of water abstraction per Rule D. In addition to the onsite BMPs the land use change from agricultural row crops into managed turf has resulted in a reduction in total suspended solids and total phosphorus. Updated modeling shows a reduction in TP of 26.3812 lb/yr and a reduction in TSS of 659.2 lb/yr. The project triggers review for Rule D, Rule E, Rule F, and Rule I.
- 19. 2022-19 Sam's Landscaping Site Plan**, is a 7.05 acre site plan that includes a business office as well as gravel storage area located in the City of Independence. The applicant proposes to manage stormwater with an onsite bio-infiltration basin, to provide stormwater abstraction as well as water quality improvements, and rate control. Comments have been provided to the applicant's engineer to provide guidance on the provided bio-filtration design as well as clarifying changes to the existing drainage patterns. The project was reviewed for Rule D, Rule E, and Rule I.
- 20. 2022-20 Crimson Woods Development**, is an 8 lot 39.7 acre residential development located within the City of Greenfield. The development is proposing to handle stormwater with an infiltration basin. The infiltration basin and land use change are expected to reduce phosphorus runoff and total suspended solids runoff. Additionally, the infiltration basin is providing abstraction that is working to reduce the volume of runoff that is leaving the site. The engineer

---

RULE D - STORMWATER MANAGEMENT

RULE E - EROSION AND SEDIMENT CONTROL

RULE F - FLOODPLAIN ALTERATION

*Language in red indicates current updates*

\* indicates enclosure

RULE G - WETLAND ALTERATION

RULE H - BRIDGE AND CULVERT CROSSINGS

RULE I - BUFFERS

has supplied a SWPPP for the development that meets all watershed rules. The developer has not supplied a buffer maintenance plan that outlines establishing the new wetland buffers nor an ownership and maintenance agreement for the infiltration basin. The project was reviewed for Rule D, Rule E, and Rule I.

**21. 2022-21 Centerpoint Energy TH 55 Gas Man Replacement**, CenterPoint Energy is proposing to install 1,438 linear feet of 4-inch-diameter natural gas pipeline by horizontal directional drilling. The project will require multiple bore pits to be dug in various locations to connect together sections of gas main. Some of the bore pit locations are within wetland and are adjacent to waterbodies. The project triggers review for Rule E, Rule I.

**22. 2023-002 Rockvam Boatyards Site Plan**, is a 1.9-acre site plan for a boat storage business located in the City of Independence. The applicant proposes to manage stormwater with an onsite bio-infiltration basin, to provide stormwater abstraction as well as water quality improvements, and rate control. The project will disturb roughly 1.2 acres and create 0.9 acres of new impervious surfacing. The project was reviewed for Rule D, Rule E, and Rule I.

**23. 2023-003 Athmann Site Plan**, is a single lot residential development project. The property is located within the City of Independence. The existing site consists mostly of existing row crops with wetlands on the northwestern and southeastern sides of the lot. The eastern half of the lot is wetland adjacent to Pioneer Creek. Stormwater for the site is split to flow in two directions. The northwestern half of the site flows to the west to discharge into the creek that acts as an outlet for Lake Robina. The southeastern half of the site flows to the south to discharge into Pioneer Creek. The Commission's management plan requires compliance for Stormwater Management (Rule D), Erosion Control (Rule E), and Buffer Strips (Rule I).

**24. 2023-004 Pioneer Trail Paving Project**, is a road widening and paving project being lead by the City of Greenfield. The project is expected to disturb roughly 1.8 acres and create 0.1 acres of impervious surfacings. The project will be required to have a SWPPP and NPDES permit. The project was reviewed for Erosion Control (Rule E).

**25. 2023-005 CenterPoint Energy Greenfield Conversion**, is a natural gas pipe line extension project that will install approximately 4,860 feet of 4-inch plastic natural gas pipeline. The project will disturb roughly 0.6 acres of land and will cross FEMA flood plant as well as potentially have temporary impacts to wetlands. The project was reviewed for Erosion Control (Rule E) and Floodplain Alteration (Rule F)

**GS68 Pond Scrape Update**, a quote has been received to complete sediment testing in the pond. The quote from Braun Intertec covers taking the sample from the pond and having the sediment test for a cost of \$4,138. We recommended accepting this proposal. **Braun has been directed to complete the sediment sampling and we are awaiting their results. Wetland delineation is to be completed by Hennepin County, and design is on going.**

RULE D - STORMWATER MANAGEMENT

RULE E - EROSION AND SEDIMENT CONTROL

RULE F - FLOODPLAIN ALTERATION

*Language in red indicates current updates*

\* indicates enclosure

RULE G - WETLAND ALTERATION

RULE H - BRIDGE AND CULVERT CROSSINGS

RULE I - BUFFERS

---

RULE D - STORMWATER MANAGEMENT

RULE E - EROSION AND SEDIMENT CONTROL

RULE F - FLOODPLAIN ALTERATION

*Language in red indicates current updates*

\* indicates enclosure

RULE G - WETLAND ALTERATION

RULE H - BRIDGE AND CULVERT CROSSINGS

RULE I - BUFFERS

# HENNEPIN COUNTY

## MINNESOTA

DATE: September 14, 2023

TO: Pioneer-Sarah Creek Watershed Management Commission

FROM: Roz Davis, Kevin Ellis, and Kris Guentzel; Hennepin County Department of Environment and Energy

RE: September Commission Project, Program, and Outreach Updates

---

### **Watershed-based Implementation Fund (WBIF) FY21 Grants**

*Update:* Both the North Fork Crow Watershed and South Fork Crow Watershed WBIF Grants have a grant period ending on December 31, 2023. County and BWSR staff met in September to discuss the need for a 1-year extension, which was submitted in eLINK last week. BWSR staff verbally committed to approving that extension, which will extend the grant period to December 31, 2024. BWSR staff recommended a work plan amendment also be executed this winter as grant activities and budget have changed since the last one in winter 2022-2023.

### **Dance Hall Creek Clean Water Fund Updates**

*Update:* PSCWMC, the county, and Stantec agreed at the last Commission meeting to not pursue a Clean Water Fund Grant application for Dance Hall Creek this year. Instead, North Fork Crow WBIF dollars allocated to the Dance Hall Creek subwatershed will be used to draft 30% designs, which will outline the extent of the proposed restoration more explicitly. Stantec is still working on a scope for 30% designs and hopefully will have it for the October Commission meeting. County staff will also meet with MNDOT on the 18<sup>th</sup> to better understand their timeline for Highway 55 improvements and their interest/concerns with BMPs adjacent to the roadway.

County staff communicated the decision to postpone the grant application to landowners in late August. They plan to reach out to landowners again in October to coordinate survey work for 30% designs.

*Previous:* County staff have been assisting Diane Spector in pulling together application materials for the Clean Water Fund grant. Diane completed a draft of the application this week and county staff plan to review that draft the week of the PSCWMC August meeting. She has asked for comments and edits by August 18<sup>th</sup>.

In early August, staff sent landowners in the lower Dance Hall Creek watershed a letter of support (see packet materials). The letter basically states that the landowner has met with and/or talked with county

staff about the restoration work, they are aware of projects being proposed, and they support the inclusion of their property in the restoration of Dance Hall Creek. So far, county staff have received one signed letter back. We will be following up with landowners as needed to continue collecting letters of support.

## **Subwatershed Assessments**

### **Spurzem Creek Subwatershed Assessment**

*Update:* No update.

*Previous:* Report was substantially completed over the winter, incorporating comments providing by partners. The County met with MPCA staff regarding concerns with BMP installations in/near the Woodlake landfill in Medina. These concerns were incorporated into the draft and staff plan to make this available to partners soon.

### **Lake Rebecca Subwatershed Assessment**

*Update:* County staff have received a revised draft of the subwatershed assessment and are in the process of reviewing it.

*Previous:* County staff have submitted comments to EOR and anticipate receiving a final draft of the subwatershed assessment by the end of August. County staff also solicited for and received feedback on remaining project tasks, including engineering and feasibility work, and are working with EOR to draft scope changes that will be implemented in fall 2023.

## **Projects & Outreach**

### **Buffer Inspections**

*Update:* Most buffer inspections have been completed, though a few still remain. Landowners will receive letters with notice of findings and corrective actions, if needed.

*Previous:* Buffer Law inspections will take place throughout July and August. This year inspections are only occurring north of County Road 10, which just includes portions of the City of Greenfield within PSCWMC jurisdiction. One parcel within Pioneer-Sarah Creek was chosen for on-site spot checks.

### **Lake Rebecca/Zuhrah Shrine Horsemen (ZSH) (4505 CR 92, Independence) BMPs**

*Update:* ZSH are still working on installing the fencing and will continue installation through fall 2023. County staff are reviewing EOR's recommendations on sediment core sampling locations. Staff also plan to attend their next board meeting in October with EOR to discuss sediment coring and next steps.

*Previous:* ZSH has received updated fencing, waterer, and grazing plans from NRCS. ZSH completed its cost share application and volunteers have begun installing fencing consistent with the NRCS plans and intend to complete all fencing installation over the course of 2023 (ZSH is providing labor as an in-kind contribution for the project). ZSH and NRCS agreed to stagger implementation of the fencing in three



phases throughout spring, summer, and fall 2023. They anticipate that the waterers will be completed in 2024. Additional design work on the drainage repair is anticipated in 2023.

### **Pioneer Trail Manure Bunker, Medina (west of Lake Peter)**

*Update:* County staff and the landowner mutually agreed to no longer pursue installation of the manure bunker. The landowner has entered into an agreement with a local farmer for regular haul away of the manure for field amendments and for composting. At the November 2022 Commission meeting, the Commission allocated \$17,330 in CIP and \$38,125 in South Fork Crow WBIF dollars from the Spurzem Creek activity to the bunker. These funds are now available for other projects.

*Previous:* Commission approved financially supporting the project at the November meeting. The landowner is still gathering quotes from contractors. Project install not expected until fall 2023.

### **Vinland National Center**

*Update:* Staff received a list of required survey shot locations from EOR and conducted the survey earlier today. Staff anticipate finalizing survey data in late September and hope to receive preliminary designs later this fall. If designs are agreed to by Vinland's staff and board, this project will likely be installed in 2024.

*Previous:* Staff met with EOR on site to talk about the site and engineering needs. Upon evaluating the site, staff and EOR suggested opting to place a rain garden near the playground and a swale just southeast of that location. The previous suggested locations for a rain garden were not optimal due to the limited amount of space and nearby electrical risks (street lamps). The swale would help reduce erosion that Vinland staff have noticed nearby in the wooded areas.

Staff also reviewed the ravine near the back of the building with EOR and are still exploring options for stabilization and treatment trains. For the treatment train, there were several suggestions such as installing iron-enhanced sand filter (IESF) next to the ravine, expanding the size of the existing stormwater pond, or trying to manage the stormwater that comes from the gutter of the building. These would likely occur as a second phase.

We expect a rough time estimate and design details will hopefully be ready by early September. County staff also expect to take survey shots in the near future.

### **Anderson Wildlife Pond and Habitat Improvement Project**

*Update:* No update.

*Previous:* County staff have been working with Bill Anderson, 6476 Fogelman Road in Independence, to assist him in developing a strategy to improve the wildlife value of uplands and lowlands on his property, notably including the removal of invasive species in his oak forest and restoration of a wetland adjacent to County 90. This project has a habitat focus but provides some water quality value and is within the Lake Independence subwatershed, which is a Commission priority. County staff plan to engage the Commission engineer in the coming weeks for guidance on permitting and some of the technical aspects of the project. Implementation within the wetland would likely occur in the late fall or winter when it's safe for heavy equipment.

## **BridgeVine Development – Bohland Construction and Adelman**

*Update:* Please see the Commission Action Requests for today's meeting for an overview of proposed projects in the BridgeVine development along with pollution reduction estimates and cost-benefit ratios. County staff are looking for feedback on the projects and are planning to request commission action at the October meeting.

*Previous:* Bohland Construction and Adelman (a private landowner from the development) both applied for Opportunity Grants. Their applications will be evaluated and they will receive notice of whether they were awarded grant funding in fall 2023.

## **Outreach programming**

### Conservation Connection E-Newsletter:

*Update:* No update.

*Previous:* HCEE launched a new e-newsletter on July 10<sup>th</sup> called Conservation Connection. This e-newsletter is exclusively focused on conservation and will feature content such as funding opportunities, DIY conservation, BMP examples, creature features, and upcoming events. We have collected just under 400 emails so far and will continue building this list as we interact with landowners.

The e-newsletter goes out quarterly and the next edition is scheduled for October. We are able to share segments with cities and other partners, so please let us know if you can think of any partners that may want to share our content in their own newsletters.

### Lake Independence subwatershed postcard:

*Update:* No update.

*Previous:* Hennepin County will be sending out another postcard to residents in the Lake Independence subwatershed, as there is still funding that can be allocated to projects. Staff expect the postcard to go out in early October.

## **Other Environment and Energy Programming Notes:**

- a. Students from Central Middle School in Eden Prairie helped pull garlic mustard as part of an ongoing habitat restoration project, which was supported by a Hennepin County Good Steward Grant. The project involved removing noxious weeds and planting more than 2,000 wildflowers, shrubs, and trees. Read more about the project here:  
<https://www.eplocalnews.org/2023/07/26/mother-nature-smiles-at-eden-wood/>
- b. Hennepin County awarded 28 Green Partners grants totaling more than \$700,000 to community organizations to engage their audiences in learning about and taking actions to protect the environment. These projects will engage more than 9,500 people, including 7,500 youth, and

provide green job training to more than 50 youth. The majority of projects funded in this round will engage audiences facing disparities. Learn more about grantees and their projects here:

<https://www.hennepin.us/greenpartners#recently-awarded-grants>

- c. BWSR is accepting applications for spring 2024 Lawns to Legumes projects. The deadline to apply is November 30<sup>th</sup> and grant recipients will be notified in mid-December. Here is the application form: <https://bluethumb.org/lawns-to-legumes/apply/>.