

## VLAWMO TECHNICAL COMMISSION MEETING

8:00 AM June 12, 2024

Vadnais Heights City Hall, Council Chambers, 800 County Road E East, Vadnais Heights, MN 55127

Action items: ☀

- I. Call to Order – 8:00am – Chair Tessier
- II. Approval of Agenda ☀
- III. Approval of Minutes (May 8, 2024) ☀
- IV. Administration & Operations
  - A. June Financial Report and Consider Authorization for Payment – Phil ☀ pg. 7
  - B. June TEC Report to the Board of Directors – Phil ☀ pg. 15
- V. Programs
  - A. SHG 2024-05 Ulm Turf Replacement – Lauren ☀ pg. 22
  - B. SHG 2024-06 Gmeinder Pollinator Garden – Lauren ☀ pg. 34
  - C. SHG 2024-07 Farmer Turf Replacement – Lauren ☀ pg. 42
  - D. SHG 2024-08 Steenson Turf Replacement - Lauren ☀ pg. 17
  - E. FY '24-25 BWSR WBIF Grant Program Process– Lauren ☀ pg. 50
- VI. Projects
  - A. Watershed Management Plan update and Priority Issues - Dawn pg. 56
  - B. Spent Lime Demonstration Project pay request and update - Dawn pg. 59
  - C. Tamarack alum RFQ update - Dawn pg. 19
  - D. Pleasant Lake carp removal update - Dawn pg. 19
  - E. Deep Lake MOU with NOHOA – Dawn pg. 65
  - F. Wilkinson Deep-water wetland update - Dawn pg. 20
  - G. Scope with SEH for Wilkinson potential meander feasibility - Dawn pg. 21
  - H. Birch Lake pre-survey completed and permit underway – Dawn pg. 21
- VII. Commissioner Reports
- VIII. NOHOA
- IX. Ramsey Soil & Water Conservation Division
- X. St. Paul Regional Water Services
- XI. Public Comment
- XII. Next meetings: TEC: July 10, 2024, Board Meeting: June 26, 2024
- XIII. Adjourn ☀

### Upcoming Events: Visit [vlawmo.org/events](http://vlawmo.org/events)

VH Ice Cream Social: June 12

Welcome the Goats: June 27

WBL MarketFest Environmental Resource Expo: July 25

**Vadnais Lake Area Water Management Organization  
Technical Commission (TEC) Minutes  
May 8, 2024  
Vadnais Heights City Hall, Council Chambers  
800 County Road E East, Vadnais Heights, MN 55127**

**Commission Members Present:**

Gloria Tessier	Gem Lake (GL)
Nick Ousky	Vadnais Heights (VH)
Susan Miller	City of North Oaks (NO)
Andy Nelson	City of Lino Lakes (LL)
Jami Philip	White Bear Township (WBT)
Terry Huntrods	City of White Bear Lake (WBL)

**Absent:** None

**Others in attendance:** Phil Belfiori, Brian Corcoran, Lauren Sampedro, Dawn Tanner (VLAWMO staff), Ed Shapland (CAC)

**I. Call to Order**

Chair Tessier called the meeting to order at 8:02 am.

**II. Approval of Agenda**

It was moved by Commissioner Philip and seconded by Commissioner Ousky to approve the revised May 8, 2024 TEC agenda. Vote: all aye. Motion passed.

**III. Approval of Minutes (April 10, 2024)**

It was moved by Commissioner Huntrods and seconded by Commissioner Miller to approve the April 10<sup>th</sup> meeting minutes as presented. Vote: all aye. Motion passed.

**IV. Administration & Operations**

**A. Financial Report for May and Authorization for Payment**

Administrator Belfiori outlined the May financial report as included in the packet. Highlights included expenses related to the Lambert Lake loan, spent lime demonstration project, a potential Wilkinson meander project, payment to Houston Engineering to look at retrofitting the experimental wetland at Whitaker pond, and SRF design work for the East Vadnais Lake resiliency study. Staff recommended approval.

It was moved by Commissioner Ousky and seconded by Commissioner Miller to approve the May Financial Report for payment. Vote: all aye. Motion passed.

## **V. Programs**

### **A. SHG 2024-03 Christopherson Turf Replacement**

Sampedro presented a proposed turf replacement project located in Vadnais Heights. The project would involve planting lo mow/no mow fescue across the entire property. Staff recommended approval.

Commissioner Miller stated that it is good the homeowner is doing this while construction of the yard is underway and recommended advertising the project in the local newspaper. Commissioner Philip echoed Miller's comments.

Commissioner Miller asked if this is consistent with city ordinances and Sampedro confirmed and stated the City of Vadnais Heights adopted a new Managed Natural Landscapes ordinance that allows these types of projects. Commissioner Nelson added the State of Minnesota passed a new statute that requires cities to allow natural landscaping that supersedes city ordinances. He asked if there is any erosion control or cover type on the property. Sampedro noted she was aware of some straw erosion control in the neighborhood, but was not sure about this property.

It was moved by Commissioner Miller and seconded by Commissioner Philip to approve SHG 2024-03 in the amount of \$1,000. Vote: all aye. Motion passed.

### **B. SHG 2024-04 Westerlund Pollinator Garden**

Sampedro presented a proposed pollinator garden project located in Vadnais Heights. The project would involve adding native pollinator plants to five different areas on the property. This is the first phase of the project. Staff is recommending approval of the application.

Commissioner Miller asked if the property owner would do the work and Sampedro responded that she would be hiring Prairie Restorations to complete the work. Commissioner Nelson asked if the City reviewed the project and Sampedro confirmed City staff have reviewed the proposed project. Commissioner Nelson noted that there are some portions of the zones within the City right-of-way. Sampedro noted she discussed that issue with City staff and will be informing the property owner that plants could be potentially removed by the City in the future if the City completes work within those areas.

It was moved by Commissioner Miller and seconded by Commissioner Huntrods to approve SHG 2024-04 in the amount of \$1,242.75. Vote: all aye. Motion passed.

## **VI. Projects**

### **A. East Vadnais Lake Subwatershed Resiliency Study Report**

Sampedro presented a summary of the East Vadnais Lake Subwatershed Resiliency Study Report. She highlighted the overall goals of the study and provided the results of stormwater modeling, which was summarized on flood inundation maps of the area. She identified the proposed BMPs in the report would remove properties and structures from flood areas for both the 100-year and the 10-inch flood events. The proposed BMPs would also reduce the duration of flooding by generally 40-80% and significantly improve water quality.

Sampedro summarized some of the next steps for implementing the proposed BMPs from the report, including additional data collection activities and discussions with permitting agencies. If the projects are still viable and feasible, then the study partners may apply for relevant grant programs. She also noted the City of Vadnais Heights will be constructing a street project on Garceau Lane next year, which is in the study area and a good opportunity to directly implement recommendations from the study.

Commissioner Miller identified this study is very important to work to protect the number of properties identified in the report. Commissioner Huntrods asked if the City is aware of the recommendations in the study and considerations for their street project. Commissioner Ousky replied VLAWMO has been keeping City staff regularly informed during the study process.

**B. Spent Lime Project Update**

Tanner provided an update that VLAWMO has been working closely with the White Bear Lake water treatment plant. Prior to its closure this year, two applications of spent lime were completed. The treatment plant went back online on April 29<sup>th</sup>. Staff have been working closely with Barr Engineering to manage the project. It has been raining often, which has not been great for applying the spent lime. Now that there are drier conditions, Erosion Works is planning to be out today and tomorrow to apply more spent lime loads.

**C. Tamarack Alum RFQ Update**

Tanner said Barr Engineering has completed the RFQ documents and the request has been sent to potential contractors. She said three contractors have received the documents and staff are waiting to hear back. Staff intend to bring the quotes forward at the June Board meeting.

**D. Watershed Management Plan April 24 Meeting Update**

Tanner provided an update that the Watershed Management Plan initiate meeting was held on April 24<sup>th</sup> and thanked Chair Tessier and Commissioner Miller for attending. Tanner said there was excellent participation, including representation from the MPCA, MDH, BWSR, the City of White Bear Lake, NOHOA, and several members from the public. Houston Engineering led presenting the results of the Plan's community engagement process at the meeting. The meeting minutes and priority issue identification will be brought forward to the June Board meeting.

**E. Pleasant Lake Carp Removal Update**

Tanner announced carp activity has increased and she has been working frequently with Carp Solutions. Carp Solutions found many bigmouth buffalo fish gathered at the barrier between

Pleasant Lake and Deep Lake. She said it is easy to assume they are carp because they look similar, but the dorsal fin and mouth shape are different.

Commissioner Miller asked if the bigmouth buffalo are native to Minnesota. Tanner confirmed and said they spawn at different times than carp. She said they are currently trying to go to their spawning sites. Carp Solutions has opened the carp barrier to allow the bigmouth buffalo to go through and closed the barrier again to not allow carp to pass. Carp will be spawning shortly after the bigmouth buffalo.

Tanner said Carp Solutions found that carp have been trying to get into the culvert area by Pleasant Lake Beach. A temporary barrier will be added to the culvert today. She announced that 147 carp have been removed so far, which is about 3,000 pounds.

**F. Wilkinson Deep-Water Wetland Project Update**

Tanner presented that ongoing eagle nest monitoring has been occurring and two chicks are in the nest and being cared for by the adults. She said staff are providing load reduction data to Houston Engineering so the MPCA can receive it as part of the Wilkinson deepwater wetland project closure process.

**G. Birch Lake: BLID Article Sharing**

Tanner announced a Birch Lake article was published in the White Bear Press and asked if Commissioner Huntrods could share the article with BLID. Commissioner Huntrods confirmed and asked if there is a date for more Eurasian watermilfoil removal. Tanner replied a pre-survey will occur in mid May and removal is expected around mid June.

Chair Tessier stated she noticed the Birch Lake picture post has been knocked down. Commissioner Miller said the picture post program is no longer active and is wondering if the picture posts should be removed. Tanner said Nick Voss has been coordinating the program and staff will check with him.

**VII. Commissioner Reports**

Commissioner Philip stated White Bear Township is hosting a hazardous waste clean up day this weekend and next weekend and hopes the public takes advantage of these opportunities.

**VIII. NOHOA**

None.

**IX. Ramsey Soil & Water Conservation Division**

None.

**X. St. Paul Regional Water Services**

None.

**XI. Public Comment**

None.

**XII. Next Meetings:**

Next TEC meeting June 12, 2024. Next BOD meeting June 26, 2024.

**XIII. Adjourn**

It was moved by Commissioner Huntrods and seconded by Chair Tessier to adjourn the meeting at 8:46 am. Vote: all aye. Motion passed.

DRAFT

# VLAWMO Finance Summary: June 2024

Jun-24		Actual 5/1/24	Actual to Date	2024 Budget (June 2023 Board Approved)	Carry over from 2023 to 2024	Remaining in Budget	2024 Available (Dec. 2023 Board approved)	Act vs. Budget
<b>BUDGET #</b>	<b>INCOME</b>							
<b>5.11</b>	Storm Water Utility		\$46,282	\$1,145,431	\$0	\$1,099,149	\$1,145,431	4%
<b>5.12</b>	Service Fees			\$1,000	\$0	\$1,000	\$1,000	0%
<b>5.13</b>	Interest + mitigation acct	\$3,295	\$32,585	\$30,000	\$0	(\$2,585)	\$30,000	109%
<b>5.14</b>	Misc. income - WCA admin & other		\$856	\$3,000	\$0	\$2,144	\$3,000	29%
<b>5.15</b>	Other Income Grants/ <u>loan</u>		\$5,589	\$365,000	\$0	\$359,411	\$365,000	2%
<b>5.16</b>	Transfer from reserves			\$791,380	\$193,062	\$984,442	\$984,442	0%
	<b>TOTAL</b>	\$3,295	\$85,312	\$2,335,811	\$193,062	\$2,443,561	\$2,528,873	4%
<b>EXPENSES</b>								
<b>3.1</b>	<b>Operations &amp; Administration</b>							
<b>3.110</b>	Office - rent, copies, post tel supplies	\$2,647	\$12,042	\$32,239	\$0	\$20,197	\$32,239	37%
<b>3.120</b>	Information Systems	\$1,811	\$8,095	\$33,850	\$0	\$25,755	\$33,850	24%
<b>3.130</b>	Insurance			\$10,050	\$0	\$10,050	\$10,050	0%
<b>3.141</b>	Consulting - Audit	\$525	\$20,171	\$12,000	\$7,000	(\$1,171)	\$19,000	106%
<b>3.142</b>	Consulting - Bookkeeping	\$46	\$268	\$1,500	\$0	\$1,232	\$1,500	18%
<b>3.143</b>	Consulting - Legal	\$460	\$460	\$7,000	\$0	\$6,540	\$7,000	7%
<b>3.144</b>	Consulting - Eng. & Tech.		\$3,420	\$30,000	\$20,000	\$46,580	\$50,000	7%
<b>3.150</b>	Storm Sewer Utility		\$9,571	\$22,500	\$0	\$12,929	\$22,500	43%
<b>3.160</b>	Training (staff/board)		\$250	\$14,250	\$0	\$14,000	\$14,250	2%
<b>3.170</b>	Misc. & mileage	\$553	\$1,267	\$6,930	\$0	\$5,663	\$6,930	18%
<b>3.191</b>	Administration - staff	\$32,421	\$177,806	\$435,554	\$0	\$257,748	\$435,554	41%
<b>3.192</b>	Employer Liability	\$9,889	\$51,821	\$129,869	\$0	\$78,048	\$129,869	40%
<b>3.2</b>	<b>Monitoring and Studies</b>							
<b>3.210</b>	Lake and Creek lab analysis	\$2,220	\$2,815	\$18,000	\$0	\$15,185	\$18,000	16%
<b>3.220</b>	Equipment	\$9	\$120	\$3,000	\$0	\$2,880	\$3,000	4%
<b>3.230</b>	Wetland assessment & management			\$15,000	\$0	\$15,000	\$15,000	0%
<b>3.240</b>	Watershed planning /special study	\$3,629	\$22,046	\$100,000	\$15,000	\$92,954	\$115,000	19%
<b>3.3</b>	<b>Education and Outreach</b>							
<b>3.310</b>	Public Education		\$2,026	\$6,000	\$0	\$3,974	\$6,000	34%
<b>3.320</b>	Comm., Outreach & Marketing	\$393	\$2,760	\$20,000	\$2,000	\$19,240	\$22,000	13%
<b>3.330</b>	Community Blue Ed Grant			\$8,000	\$0	\$8,000	\$8,000	0%
<i>Total Core functions: Ops, Monitoring, Education</i>		\$54,603	\$314,938	\$905,742	\$44,000	\$634,804	\$949,742	33%
<b>Capital Improvement Projects and Programs</b>								
<b>3.4</b>	<b>Subwatershed Activity</b>							
<b>3.410</b>	Gem Lake			\$25,000	\$10,000	\$35,000	\$35,000	
<b>3.420</b>	Lambert Creek	\$4,027	\$11,172	\$90,000	\$0	\$78,828	\$90,000	12%
<b>3.421</b>	Lambert Lake Loan		\$19,284	\$38,569	\$0	\$19,285	\$38,569	50%

3.425	Goose Lake	\$12,500	\$46,856	\$85,000	\$0	\$38,144	\$85,000	55%
3.430	Birch Lake		\$1,150	\$48,000	\$0	\$46,850	\$48,000	2%
3.440	Gilf Black Tam Wilk Amelia	\$5,654	\$46,551	\$345,000	\$60,000	\$358,449	\$405,000	11%
3.450	Pleasant Charley Deep	\$22,091	\$54,311	\$145,000	\$0	\$90,689	\$145,000	37%
3.460	Sucker Vadnais	\$7,099	\$47,458	\$90,000	\$33,000	\$75,542	\$123,000	39%
3.48	<b>Programs</b>							
3.480	Soil Health Grant	\$82	\$268	\$10,500	\$4,500	\$14,732	\$15,000	2%
3.481	Landscape 1		\$5,000	\$40,000	\$16,263	\$51,263	\$56,263	9%
3.482	Landscape 2/BWSR WBF		\$5,118	\$60,000	\$25,299	\$80,181	\$85,299	6%
3.483	Project Research & feasibility			\$5,000	\$0	\$5,000	\$5,000	0%
3.485	Facilities Maintenanc/ Pub. Ditch Main.		\$5,778	\$78,000	\$0	\$72,222	\$78,000	7%
3.5	<b>Regulatory</b>							
3.510	Engineer Plan review			\$5,000	\$0	\$5,000	\$5,000	0%
	<i>Total CIP &amp; Program</i>	\$51,452	\$242,946	\$1,065,069	\$149,062	\$971,185	\$1,214,131	20%
	<b>Total of Core Operations &amp; CIP</b>	<b>\$106,054</b>	\$557,884	\$1,970,811	\$193,062	<b>\$1,605,989</b>	\$2,163,873	<b>26%</b>

<b>Fund Balance</b>	5/1/2024	6/1/2024
4M Account	\$858,001	\$436,521
4M Plus Savings	\$244,423	\$245,516
Total	\$1,102,424	\$682,037

<b>Restricted funds</b>		6/1/2024
Mitigation Savings		\$21,025
Term Series		\$300,000



Vadnais Lake Area Water Management Organization  
**Check Detail**

2:10 PM

06/04/2024

May 9 through June 12, 2024

Type	Num	Date	Name	Item	Account	Paid Amount	Original Amount
Check	eft	05/20/2024	further		Checking - 1987		-6.00
				Insurance Benefit		-6.00	6.00
TOTAL						-6.00	6.00
Check	eft	05/20/2024	US Bank		Checking - 1987		-46.30
				3.142 · Bookkeeping help		-46.30	46.30
TOTAL						-46.30	46.30
Check	5787	06/12/2024	Nicholas Voss		Checking - 1987		-28.31
				3.170 · Misc. & mileage		-20.31	20.31
				3.320 · Marketing		-8.00	8.00
TOTAL						-28.31	28.31
Check	5788	06/12/2024	Brian Corcoran		Checking - 1987		-152.76
				3.170 · Misc. & mileage		-152.76	152.76
TOTAL						-152.76	152.76
Check	5789	06/12/2024	Dawn Tanner		Checking - 1987		-210.38
				3.170 · Misc. & mileage		-210.38	210.38
TOTAL						-210.38	210.38
Check	5790	06/12/2024	SRF Consulting Group		Checking - 1987		-7,098.57
				3.460 · Sucker Vadnais		-7,098.57	7,098.57
TOTAL						-7,098.57	7,098.57
Check	5791	06/12/2024	Nissa Valdez		Checking - 1987		-82.04
				3.480 · Soil Health Grant		-82.04	82.04
TOTAL						-82.04	82.04
Check	5792	06/12/2024	Barr Engineering Co		Checking - 1987		-4,240.10
				3.440 · Gilfillan Black Tamarack Wilkin		-2,925.50	2,925.50
				3.440 · Gilfillan Black Tamarack Wilkin		-1,314.60	1,314.60
TOTAL						-4,240.10	4,240.10
Check	5793	06/12/2024	Erosion Works		Checking - 1987		-12,500.00
				Oak Knoll		-12,500.00	12,500.00
TOTAL						-12,500.00	12,500.00
Check	5794	06/12/2024	Houston Engineering, Inc		Checking - 1987		-8,408.13

			3.240 · Watershed Plan Amendment	-3,628.50	3,628.50
			Whitaker Wetlands	-4,026.50	4,026.50
			Wilk 319 cash match \$182,137	-753.13	753.13
TOTAL				-8,408.13	8,408.13
	<b>Check</b>	<b>5795</b>	<b>06/12/2024 RMB Environmental Laboratories, Inc.</b>	<b>Checking - 1987</b>	<b>-2,880.03</b>
			3.210 · Lake & Creek lab analysis	-147.35	147.35
			Wilk 319 cash match \$182,137	-196.46	196.46
			Wilk 319 cash match \$182,137	-267.52	267.52
			3.210 · Lake & Creek lab analysis	-635.36	635.36
			3.210 · Lake & Creek lab analysis	-1,360.59	1,360.59
			3.210 · Lake & Creek lab analysis	-76.29	76.29
			Wilk 319 cash match \$182,137	-196.46	196.46
TOTAL				-2,880.03	2,880.03
	<b>Check</b>	<b>5796</b>	<b>06/12/2024 carp solutions</b>	<b>Checking - 1987</b>	<b>-20,580.00</b>
			3.450 · Pleasant Charley Deep	-20,580.00	20,580.00
TOTAL				-20,580.00	20,580.00
	<b>Check</b>	<b>5797</b>	<b>06/12/2024 FastSigns</b>	<b>Checking - 1987</b>	<b>-78.48</b>
			3.320 · Marketing	-78.48	78.48
TOTAL				-78.48	78.48
	<b>Check</b>	<b>5798</b>	<b>06/12/2024 Kennedy &amp; Graven, Chartered</b>	<b>Checking - 1987</b>	<b>-459.90</b>
			3.143 · Legal	-459.90	459.90
TOTAL				-459.90	459.90
	<b>Check</b>	<b>5799</b>	<b>06/12/2024 City of Vadnais Heights</b>	<b>Checking - 1987</b>	<b>-2,246.24</b>
			Rent	-1,765.00	1,765.00
			Phone/Internet/Machine Overhead	-315.00	315.00
			Postage	-45.40	45.40
			Copies	-120.84	120.84
TOTAL				-2,246.24	2,246.24
	<b>Check</b>	<b>5800</b>	<b>06/12/2024 CliftonLarsonAllen</b>	<b>Checking - 1987</b>	<b>-525.00</b>
			3.141 · Audit	-525.00	525.00
TOTAL				-525.00	525.00
	<b>Check</b>	<b>5801</b>	<b>06/12/2024 Metro - Inet</b>	<b>Checking - 1987</b>	<b>-1,571.00</b>
			IT Support	-1,571.00	1,571.00
TOTAL				-1,571.00	1,571.00
	<b>Check</b>	<b>5802</b>	<b>06/12/2024 Vacker Inc.</b>	<b>Checking - 1987</b>	<b>-1,511.00</b>
			3.450 · Pleasant Charley Deep	-1,511.00	1,511.00
TOTAL				-1,511.00	1,511.00

Check 5803 06/12/2024 City of White Bear Lake

Checking - 1987

-42,303.72

payroll	-32,421.19	32,421.19
Administration FICA	-2,306.54	2,306.54
Administration PERA	-2,431.58	2,431.58
Insurance Benefit	-4,900.08	4,900.08
Admin payroll processing	-244.33	244.33

TOTAL

-42,303.72 42,303.72

**Vadnais Lake Area Water Management Organizatic**  
**Profit & Loss**  
 May 9 through June 12, 2024

2:12 PM

06/04/2024

Cash Basis

May 9 - Jun 12, 24

Ordinary Income/Expense	
Income	
5.1 · Income	
5.13 · Interest	3,295.34
Total 5.1 · Income	<u>3,295.34</u>
Total Income	<u>3,295.34</u>
Gross Profit	3,295.34
Expense	
3.1 · Administrative/Operations	
3.110 · Office	
Copies	120.84
Phone/Internet/Machine Overhead	315.00
Postage	45.40
Rent	1,765.00
Supplies	400.57
Total 3.110 · Office	<u>2,646.81</u>
3.120 · Information Systems	
IT Support	1,571.00
IT Systems - Hardware	240.00
Total 3.120 · Information Systems	<u>1,811.00</u>
3.141 · Audit	525.00
3.142 · Bookkeeping help	46.30
3.143 · Legal	459.90
3.170 · Misc. & mileage	553.45
3.191 · Employee Payroll	
payroll	32,421.19
Total 3.191 · Employee Payroll	32,421.19
3.192 · Employer Liabilities	
Admin payroll processing	244.33
Administration FICA	2,306.54
Administration PERA	2,431.58
Insurance Benefit	4,906.08
Total 3.192 · Employer Liabilities	<u>9,888.53</u>
Total 3.1 · Administrative/Operations	48,352.18
3.2 · Monitoring and Studies	
3.210 · Lake & Creek lab analysis	2,219.59
3.220 · Equipment	9.49
3.240 · Watershed Plan Amendment	3,628.50
Total 3.2 · Monitoring and Studies	<u>5,857.58</u>
3.3 · Education and Outreach	
3.320 · Marketing	393.14
Total 3.3 · Education and Outreach	<u>393.14</u>

<b>3.4 · Capital Imp. Projects/Programs</b>	
<b>3.420 · Lambert Creek Restoration</b>	
Whitaker Wetlands	4,026.50
<b>Total 3.420 · Lambert Creek Restoration</b>	<u>4,026.50</u>
<b>3.425 · Goose Lake</b>	
Oak Knoll	12,500.00
<b>Total 3.425 · Goose Lake</b>	<u>12,500.00</u>
<b>3.440 · Gilfillan Black Tamarack Wilkin</b>	
Wilk 319 cash match \$182,137	1,413.57
3.440 · Gilfillan Black Tamarack Wilkin - Other	4,240.10
<b>Total 3.440 · Gilfillan Black Tamarack Wilkin</b>	<u>5,653.67</u>
<b>3.450 · Pleasant Charley Deep</b>	22,091.00
<b>3.460 · Sucker Vadnais</b>	7,098.57
<b>Total 3.4 · Capital Imp. Projects/Programs</b>	<u>51,369.74</u>
<b>3.48 · Programs</b>	
3.480 · Soil Health Grant	82.04
<b>Total 3.48 · Programs</b>	<u>82.04</u>
<b>Total Expense</b>	<u>106,054.68</u>
<b>Net Ordinary Income</b>	<u>-102,759.34</u>
<b>Net Income</b>	<u><u>-102,759.34</u></u>

Vadnais Lake Area Water Management Organization  
**Custom Transaction Detail Report**  
 April 1 through June 1, 2024

2:08 PM

06/04/2024

Accrual Basis

Type	Date	Num	Name	Memo	Account	Clr	Split	Amount	Balance
Apr 1 - Jun 1, 24									
Credit Card Charge	04/02/2024		Google*SVCAPPS_VLAWM		US Bank CC	√	WEB	41.99	41.99
Credit Card Charge	04/08/2024		adobe *photography plan		US Bank CC	√	Software	9.99	51.98
Credit Card Charge	04/11/2024		Vista Print	business cards	US Bank CC	√	3.320 · Marketing	36.83	88.81
Credit Card Charge	04/12/2024		Zoom	subscription april24-april25	US Bank CC	√	3.320 · Marketing	149.90	238.71
Credit Card Charge	04/19/2024		Fresh Thyme	ICWC crew snacks	US Bank CC	√	3.485 · Facilities & Maintenance	10.00	248.71
Credit Card Charge	04/19/2024		Starbucks	coffee for S to S	US Bank CC	√	3.485 · Facilities & Maintenance	37.19	285.90
Credit Card Charge	04/19/2024		subway	lunch Corrections crew	US Bank CC	√	3.485 · Facilities & Maintenance	131.23	417.13
Transfer	04/22/2024			Funds Transfer	US Bank CC	√	Checking - 1987	-864.89	-447.76
Credit Card Charge	04/25/2024		Adobe *Creative Cloud		US Bank CC	√	Software	32.50	-415.26
Credit Card Charge	05/02/2024		University of Minnesota	Dawn 2024 project initiation training	US Bank CC		3.160 · Training (staff/board)	470.00	54.74
Credit Card Charge	05/02/2024		Google*SVCAPPS_VLAWM		US Bank CC	√	WEB	42.00	96.74
Credit Card Charge	05/03/2024		print for change	monitoring reports	US Bank CC	√	3.482 · Landscape 2	189.00	285.74
Credit Card Charge	05/13/2024		University of Minnesota	Dawn 2024 project aquatic plant training	US Bank CC		3.170 · Misc. & mileage	170.00	455.74
Credit Card Charge	05/14/2024		ESRI	ArcGIS credits	US Bank CC		IT Systems - Hardware	240.00	695.74
Credit Card Charge	05/16/2024		Vista Print	envelopes	US Bank CC		3.320 · Marketing	72.59	768.33
Credit Card Charge	05/17/2024		walgreens	trash bags	US Bank CC		3.220 · Equipment	9.49	777.82
Credit Card Charge	05/17/2024		4Imprint	pens	US Bank CC		Supplies	400.57	1,178.39
Credit Card Charge	05/20/2024		Vista Print	envelopes	US Bank CC		3.320 · Marketing	234.07	1,412.46
								<b>1,412.46</b>	<b>1,412.46</b>
Apr 1 - Jun 1, 24									

## TEC Report to Board - June 2024

Programs & Projects	Effort Level	Completion Date	Comments				
	LOW						
	MED						
	HIGH						
<b>Projects</b>				<b>Administration &amp; Operation</b>			
E. Vadnais Lake Subwatershed Resiliency Study	ongoing	ongoing	The E. Vadnais Lake Subwatershed Resiliency Study report was completed in May. Final invoicing will occur in June. Staff are working with the City of Vadnais Heights on next steps for implementing BMPs identified in the report.	Audit		2023	Staff has completed work with CLA on the 2023 Audit. 2023 Audit was approved at the 4/24 Board meeting.
Oak Knoll Pond/Wood Lake	2024	2024	Zone 2 spent lime load/applications complete; Zone 1 has 9 remaining loads to full dose.	Budget		for 2025 budget	5 year project partnership table and early draft 2025 budget were approved at the 4/24 VLAWMO Board meeting. VLAWMO Subcommittee and TEC representative considered draft 2025 budget at their 5/30 meeting and recommended approved to the VLAWMO Board. The Board will consider budget at the 6/26 meeting.
Polar Lake Park Reuse Study	Mid Late 2024	Mid Late 2024	Study approved by VLAWMO Board in April. Discussions with WBT on possible grant application development ongoing.	Personnel /HR	ongoing	ongoing	Training and professional development continues for staff
MPCA 319 /Wilkinson Lake BMPs	2024	2024	Eagle monitoring ongoing; pay request expected spring/summer. Planning underway for next round grant project.	SSU	ongoing	ongoing	The approved 2024 SSU certifications have been submitted to Anoka and Ramsey County.
Pleasant Lake Carp Management	ongoing	ongoing	Spring removal completed; high success rate with ~12,000 pounds removed. Planning for 2025 underway.	Strategic /watershed planning	2023-2025	2023-2025	Priority Issue identification and authorization current focal point of WMP process.
Tamarack Alum Project	2024	2024	No quotes received. VLAWMO staff awaiting next step recommendations from Barr Engineering.				
<b>Programs</b>							
City/Township MS4	June-July	June-July	Dispersal of water conservation smart irrigation/controller promotion with City of Vadnais Heights.	<b>FINANCIAL SUMMARY as of 6/1/2024</b>			
Education/Outreach	May-June	May-June	Birch Lake Elementary school visit complete, WBL summer school activity scheduled for June 27. Vadnais Heights Icer Cream Social and WBL MarketFest education events scheduled. VLAWMO assistance with North Oaks Arbor Day event complete.	4M Account (1.10)	4M Plus (1.23)	Total	
Website	Feb-Sept	Feb-Sept	New website renovation in progress. Launch expected 9/24. Expression of new Watershed Management Plan phases, updates, and survey results in development on existing website.	\$436,522	\$245,516	\$682,038	
WAV	April	April	Development of Local Landscape Leaders program, Adopt-a-Raingarden volunteers trained and active, AIS volunteers active in monitoring, promotion and recruitment for 2024/25 cohort of Minnesota Water Stewards (2 Stewards to be sponsored for program). Interview and orientation to new volunteers on an on-demand basis.				
Cost Share & BWSR WBIF	ongoing	ongoing	Site visits are steady and there continues to be strong interest in projects that are focused on native plant restoration for pollinators and reducing groundwater use. Soil Health Grant program funding may run out by July. Discussion with HOAs on smart irrigation controllers is ongoing. A pre-construction meeting for the Elmwood Park raingarden project is planned for June. Continuing to work on potential projects for the BWSR WBIF grant program with partners, including curb cut raingardens in White Bear Lake.				
GIS	ongoing	ongoing	Updating the online GIS viewer as needed.				
Monitoring	ongoing	ongoing	2024 season underway				
WCA	ongoing	ongoing	Administering WCA as needed.				

Budget Summary	Actual Expense YTD	2024 Budget "working"	Remaining in Budget	% YTD
Operations	\$314,938	\$949,742	\$634,804	33%
CIP	\$242,946	\$1,214,131	\$971,185	20%
<b>Total</b>	<b>\$557,884</b>	<b>\$2,163,873</b>	<b>\$1,605,989</b>	<b>26%</b>

## **TEC Staff Memo – June 12, 2024**

### **IV. Administration & Operations**

#### **A. June Financial Report and Consider Authorization for Payment**

Please find the June financial report and authorization to pay bills in the ePacket for consideration and approval.

#### **B. June TEC Report to the Board**

Please find the June TEC report to the Board attached in the ePacket for review and approval.

### **V. Programs**

#### **A. SHG 2024-05 Ulm Turf Replacement**

Landowner Gary Ulm submitted a Soil Health grant application for replacing turf grass with native plantings totaling about 528 sq ft in the City of White Bear Lake. The landowner is located within a VLAWMO priority zone for volume reduction and in the subwatershed of Lambert Creek. The front lawn on both sides of the driveway will be completely removed and replaced with native plants for pollinators. The addition of the native plantings will not only create pollinator habitat, but it will also conserve water and capture more stormwater runoff before it enters the storm drain on 4<sup>th</sup> Street. The front lawn normally requires a significant amount of water due to its direct sun exposure. The landowner has removed the grass and de-compacted the soil with a rototiller to prepare the yard for the plantings. He will be completing the planting work himself. This project provides a significant opportunity for increasing outreach. The landowner is located on a very busy section of 4<sup>th</sup> street with many people walking by and interested in what landowners are working on in their yards. The grant applicant also rents part of their home and will have the opportunity to educate renters. The total estimated project cost is \$2,052.45. Staff recommends approval of SHG 2024-05 in the amount of \$1,250.

#### **B. SHG 2024-06 Gmeinder Pollinator Garden**

Landowner Carrie Gmeinder submitted a Soil Health grant application for a pollinator garden with native plantings totaling about 120 sq ft in the City of Vadnais Heights. The landowner is located within a VLAWMO priority zone for volume reduction and in the direct subwatershed of Lambert Creek. The landowner is new to gardening and native plants and is starting small-scale to begin creating a more pollinator-friendly landscape that will help improve water quality. She will be removing non-native species from the current garden space and replacing them with native plants, and adding compost and mulch. The applicant worked with her neighbor on the plant list and plan. Her neighbor is a current and past grant recipient and has been a helpful resource. She will be



completing the work herself with her spouse. The total estimated project cost is \$750. Staff recommends approval of SHG 2024-06 in the amount of \$562.50.

**C. SHG 2024-07 Farmer Turf Replacement**

Landowner Gordon Farmer submitted a Soil Health grant application for replacing turf grass with native plantings totaling about 150 square feet in the City of North Oaks. The landowner is located within a VLAWMO priority zone for habitat and in the direct subwatershed of Pleasant Lake. The front lawn will be completely removed and replaced with native plants for pollinators. The native plantings will create pollinator habitat and support habitat for wildlife, conserve water, and capture more stormwater runoff before it enters Pleasant Lake. The front lawn currently has difficulty supporting turf grass due to shade. The proposed native plantings are shade-tolerant and will create a stable groundcover. This is the first phase of the project. A second phase is planned for next year to install low mow/no mow fescue or native plantings on the east side of the property to stabilize existing bare soil/poor turf conditions. The landowner will be hiring Lawn and Landscape Gardens to complete the work, which is highlighted in yellow on the cost estimate. The contractor is completing additional work that is not part of the grant project. The total estimated cost of the grant-eligible work is \$3,007.50. Staff recommends approval of SHG 2024-07 in the amount of \$1,250.

**D. SHG 2024-08 Steenson Turf Replacement**

Landowner Carol Steenson submitted a Soil Health grant application for replacing turf grass with low mow/no mow fescue grass totaling about 1,200 square feet in the City of North Oaks. Staff will be sending the application materials to TEC members in an email separate from this TEC packet due to the timing of the application submittal and review.

**E. FY '24-25 BWSR WBIF Grant Program Process**

BWSR has allocated \$147,921 to the Vadnais Lake Area Watershed Planning Area for 2025 through its fiscal year '24-25 Watershed-based Implementation Funding (WBIF) program. In order to secure the funding, VLAWMO and its partners need to begin BWSR's recommended convene meeting process.

At the TEC meeting, staff would like to go over the WBIF convene meeting process, which is the same process that occurred in 2022. Prior to scheduling a convene meeting, municipalities need to self-select two decision-making representatives to attend the convene meeting and be part of the process for choosing grant activities and submitting a funding request to BWSR. These representatives will coordinate with the other municipalities during the process. Partners must also select a local government entity or BWSR staff to coordinate and facilitate the convene meeting.

## VI. Projects

### A. Watershed Management Plan update, Priority Issues for review, and Descriptions

As established in the WMP planning process, the TEC is the primary review committee for VLAWMO. Following with the steps of the WMP process, draft priority issues are presented in the June TEC packet. Review and comment are requested at the TEC meeting. Final priority issues will be presented to the Board at the June meeting for review, comment, and authorization.

Working with the VLAWMO team, HEI provided the table attached in the packet that summarizes the draft list of issues impacting Vadnais Lake Area Water Management Organization (VLAWMO) resources. Issues are organized by resource categories. Issue descriptions are provided for each issue. This list of issues was developed after review and consideration of the following:

- The current VLAWMO Comprehensive Watershed Management Plan
- Existing data and agency reports
- Responses from the 60-day plan notification
- Responses from the public, TEC, and Board survey
- Feedback from the Initial Planning Meeting, held April 24, 2024

One of the first steps of the planning process is to identify priority issues to focus VLAWMO implementation efforts. To inform this prioritization process, survey results, the capital improvements partner table, and responses from the 60-day plan notification were analyzed to create priority ranks for each issue.

Survey results: The public, TEC, and Board survey asked each group to identify priority issues. The resulting priority issues from each survey were sorted from highest priority to lowest priority. Those in the top third received a rank of "1," medium third received a "2," and issues in the lower third a "3".

Capital improvements partner table: Using best professional judgement, projects in the five-year project table were reviewed to identify which issue the project most directly addressed. The sum of each issue indicated how prominently each issue was addressed by a planned priority project. Issues were sorted and ranked by prominence so those in the top third received a rank of "1," medium third received a "2," and issues in the lower third a "3".

60-day plan notification responses: Each response letter was reviewed. Using best professional judgement, if a VLAWMO draft issue was mentioned, it was marked. The sum of each issue indicated how prominently each issue was mentioned by a 60-day response letter. Issues were sorted and ranked by prominence so those in

the top third received a rank of "1," medium third received a "2," and issues in the lower third a "3".

Each priority rank (Public Survey, TEC Survey, Board Survey, Partner Table, and 60-Day Response) was considered equally. The average of each priority rank is shown in the "Average Score" column. Issues were sorted and ranked by Average Score so those in the top third received a rank of "1," medium third received a "2," and issues in the lower third a "3". The rank of the average is provided as the final "Average Rank."

A PPT and discussion will be included at the TEC meeting.

**B. Spent Lime Demonstration Project pay request and update**

A request for payment (Payment #3) was received by VLAWMO and is included in the bill request for June for the 4 spent lime loads (2 in Zone 2 and 2 in Zone 1) applied since last month's (Payment #2) pay request.

As of Payment #3, Zone 2 has been completed, and there are 9 loads remaining for Zone 1. VLAWMO monitoring is ongoing as loads are applied.

**C. Tamarack Lake alum RFQ request update**

No quotes from contractors were received for the Tamarack Lake alum project. Barr Engineering is contacting potential contractors and working to determine next steps.

**D. Pleasant Lake carp removal update**

Coordination is ongoing for the spring carp removal between Pleasant and Deep Lakes. At the time of packet preparation, ~11,800 pounds and 590 carp have been removed so far in 2024. The season and new barrier location has resulted in a highly successful spring removal. Removals began on April 11, 2024, and, at the time of packet preparation, no removals have been completed since May 22, 2024.

<p>Carp Solutions team conducting removal on May 22, 2024</p>	<p>May 22, 2024 was the best day of the project with a removal of 197 carp and ~4,000 pounds</p>
	

**E. Deep Lake MOU with NOHOA**

VLAWMO staff have worked with NOHOA and residents on Deep Lake to continue the Deep Lake buckthorn removal and shoreline restoration efforts. This effort was initiated with Natural Shore Technologies as a partnership project between VLAWMO and NOHOA in 2023. The partnership project resulted from a prioritization study that was completed by NOHOA with Natural Shore Technologies to inform buckthorn removal and restoration. The continuation of the project was anticipated in the 2024 VLAWMO budget. The signed MOU is included in the packet.

**Recommended action:** VLAWMO staff request a recommendation for the Board to sign the MOU at the June regular Board meeting and VLAWMO staff to return the fully executed MOU to NOHOA.

**F. Wilkinson Deep-water wetland update**

Eagle nest monitoring is ongoing. There are 2 chicks being cared for by the parents in the nest. VLAWMO monitoring according to the HEI scope is ongoing. A final request for payment from the contractor is expected in the coming weeks. HEI is

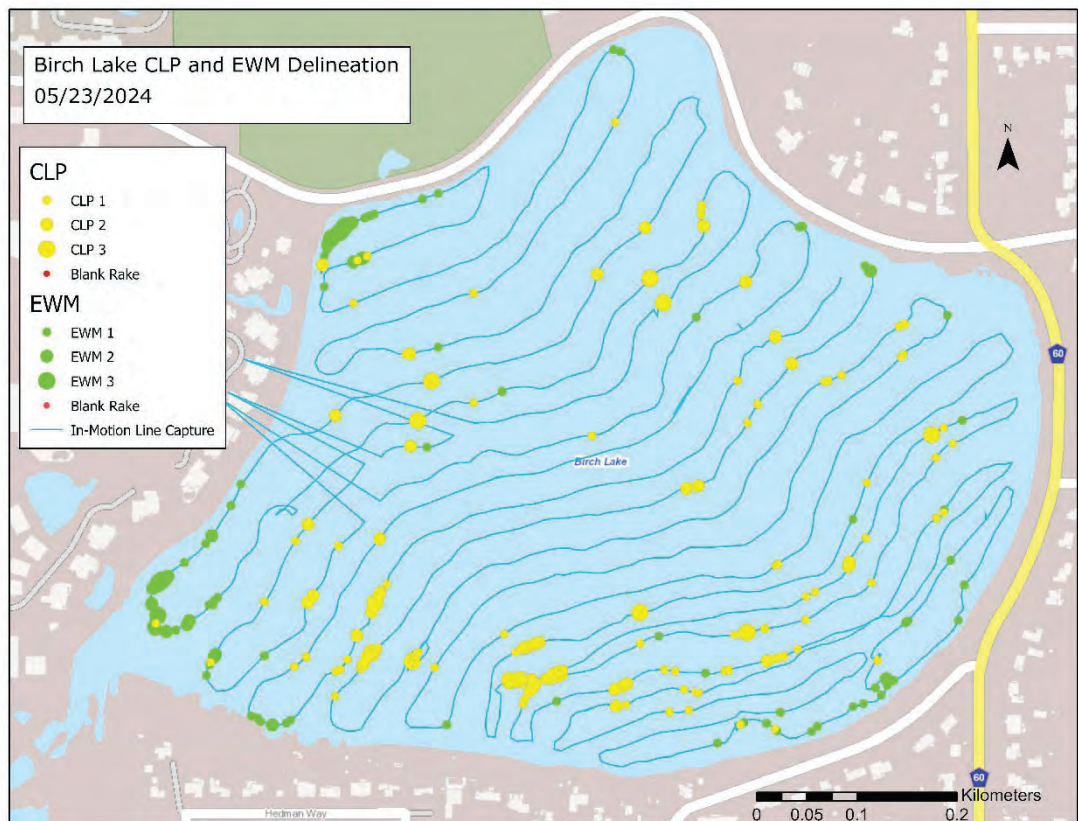
working with the contractor to wrap up remaining punchlist items.

**G. Scope with SEH for Wilkinson potential meander feasibility**

SEH is preparing a next phase scope for the potential meander at Wilkinson Lake. This project is a follow-up CIP project to the completed deep-water wetland restoration. The scope is being prepared in partnership with Ramsey County SWCD and will be billed as a separate project to RCSWCD, as part of their BWSR grant package. The scope will be sent to RCSWCD for review prior to the June Board meeting. VLAWMO anticipates providing the final memo/results from the current task order with SEH investigating this meander and the next phase scope that will be completed in partnership with RCSWCD.

**H. Birch Lake pre-survey completed and permit underway**

RCSWCD and VLAWMO staff completed the Birch Lake pre-survey to inform handpulling/removal of Eurasian watermilfoil (EWM) and Curly-leaf pondweed (CLP). This is the third year of the partnership project with RCSWCD, VLAWMO, and BLID. CLP is more abundant this year than has been detected previous years. EWM is present primarily in difficult-to-reach and very shallow areas. Coordination to complete permitting and set up removal date(s) is underway.



# Soil Health Grant Application



Submit completed application to:  
 Lauren Sampedro  
 lauren.sampedro@vlawmo.org

## Applicant Information:

Name:	GARY ULM
Address:	2101 4th. St.
City/Township, State, Zip:	WHITE BEAR LAKE 55110
Phone:	612-562-7463
Email:	GARY ULM @ GMAIL. COM

## Project Summary:

ESTIMATED TOTAL PROJECT COST (\$)	\$2,052.45 <del>\$2,990.00</del>
AMOUNT REQUESTED (\$1,000 MAX or \$1,250 In Priority Area)	\$1,250.00
EXPECTED PROJECT COMPLETION (Month, Year)	JUNE 2024

## PROJECT TYPE:

- Downspout/Small Rain garden
- Native Restoration/Pollinator Garden
- Turfgrass Replacement
- Other

If other, please describe the proposed project: \_\_\_\_\_

## Project Background:

Describe your property. What is the purpose of your project?  Does your property connect to a lake, stream, ditch, or wetland in VLAWMO?	SOUTH FACING LAWN REQUIRES EXCESSIVE WATERING. NATIVE PLANTS AND POLLINATOR GARDEN WILL ELIMINATE WATERING AND RUN OFF  No t directly, but it eventually drains to Lambert Creek
---	--

## Project Background: Continued

<p>Describe how your project will support the goals of the Soil Health Grant Program. (See grant policy)</p>	<p>NO WATERING WILL BE REQUIRED It will conserve water and create pollinator habitat.</p>
<p>Briefly describe the planned installation and maintenance activities for your project.</p>	<p>ALL GRASS HAS BEEN REMOVED, DIRT HAS BEEN ROTOTILLED IN PREPARATION OF PLANTING.</p>

## Project Specifications:

<p>TOTAL PROPERTY AREA (Acres)</p>	<p>0.28 ac 18,700 SQ. FT.</p>
<p>Total PROJECT SIZE (SQ FT)</p>	<p>528 <del>450</del> SQ. FT.</p>
<p>IF APPLICABLE: DEPTH OF RAINGARDEN BASIN (Inches)</p>	<p>N/A</p>



## Required Attachments:

- ⇒ Detailed drawing or plan of the proposed project.
- ⇒ Detailed project budget estimate with itemized costs and materials that equal your total estimated cost.

# VLAWMO Soil Health Grant Agreement



**It is understood that:**

1. The grantee is responsible for maintaining the project for at least 5 years after its installation. VLAWMO is not responsible for completing maintenance activities.
2. The grantee will participate in VLAWMO's outreach and project sharing efforts.
3. A project may be visited and inspected by a VLAWMO representative during the 5-year maintenance period.
4. Grant awards will expire within 1 year of grant approval unless the project is extended with VLAWMO approval.

The applicant's signature indicates their agreement to the above terms and certifies the grant application information is true and accurate. A VLAWMO staff signature will constitute an approved and executed grant agreement between the grantee and the VLAWMO.

**Applicant/Grantee**

Signature

*Gary E. ULM*

Date

*5/7/24*

Print

*GARY E. ULM*

**VLAWMO Staff**

Signature

Date

Print

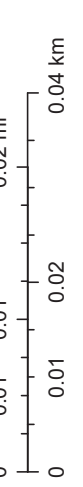


# SHG 2024-05 Ulm Turf Replacement Application



5/21/2024, 2:45:15PM

1:1,128



- Ramsey County Parcels
- Project Location
- Flow Arrows
- VLAWMO Boundary
- Catch Basins

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA | ArcGIS Web AppBuilder

Street South

Fence

16'

SEE ATTACHED  
PLANT MAP

164 SQ FT

East

Fence

24'

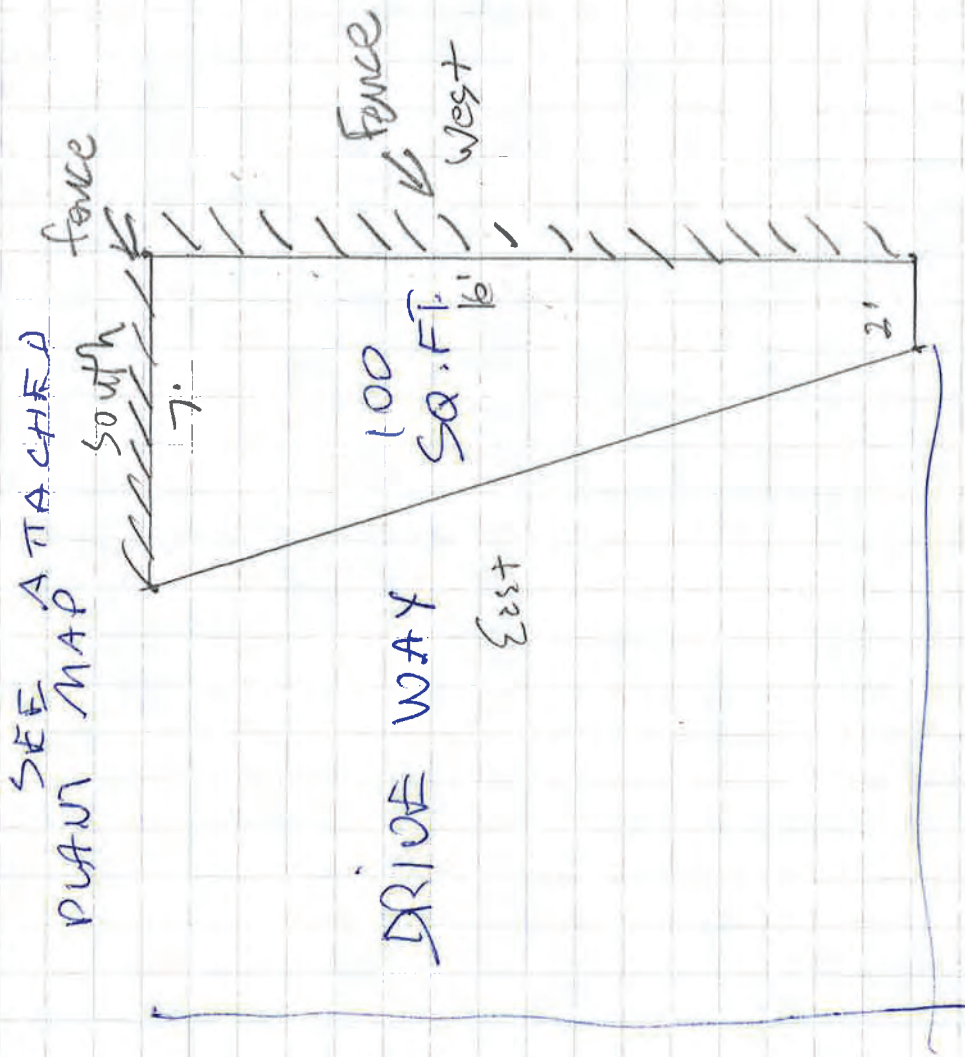
SEE ATTACHED  
PLANT MAP

264 SQ FT

West

Side Walk  
11" 11" → ← 3"

House



# Sunny and Low Garden for Pollinators

These plants were selected for their drought tolerance and height. Most are 24" or under, ranging to 36" in the center. Plants in this design are tough enough for a dry boulevard.


**Prairie Dropseed**  
 Fine leaves create 2' high mounds of texture that will offset the height and color of the blooms around it. Prairie Dropseed is most beautiful in groups.  
 14 plants  
 height: 24"  



**Wild Strawberry**  
 This low ground-cover will spread throughout this planting, helping to stabilize soil and conserve moisture and providing tiny early summer fruit.  
 24 plants  
 height: 8"  



**Alumroot**  
 A low-growing native coral bell, provides early blooms and it's crisp leaves will look great against the textures of Butterfly Milkweed and Prairie Dropseed grass.  
 6 plants  
 height: 24"  



**Purple Prairie Clover**  
 is a graceful legume that forms a vase-shape of blooming stems beloved by pollinators. It is not a favored food of deer or rabbits and is extremely drought resistant.  
 3 plants  
 height: 24"  


**Narrow Leaved Coneflower**  
 Minnesota's only native coneflower, it is shorter than its relative Purple coneflower, but with similar flowers. Host plant of the Ottoe Skipper butterfly.  
 8 plants  
 height: 24"  


**Butterfly Milkweed's**  
 bright mid-summer fireworks attract butterflies and bees alike. Vibrant color and tough, this plant can handle boulevard conditions. Butterfly Milkweed is amazing!  
 12 plants  
 height: 24"  


**Wild Bergamot**  
 One of the best plants for attracting native pollinators, some people call it "Sweet Leaf" because the edible foliage can be made into a minny tea.  
 7 plants  
 height: 36"  


**Pearly Everlasting**  
 attracts bees and butterflies and blooms in the hottest time of the summer when pollinator foods are sometimes scarce. Beautiful fuzzy silver foliage.  
 8 plants  
 height: 24"  


**Silky Aster**  
 This aster has a sprawling habit and is best supported by other plants. It is a host plant for Silvery Checkerspot larva. Blooms last from summer into late fall.  
 5 plants  
 height: 24"  


Bloom Time

May

June

July

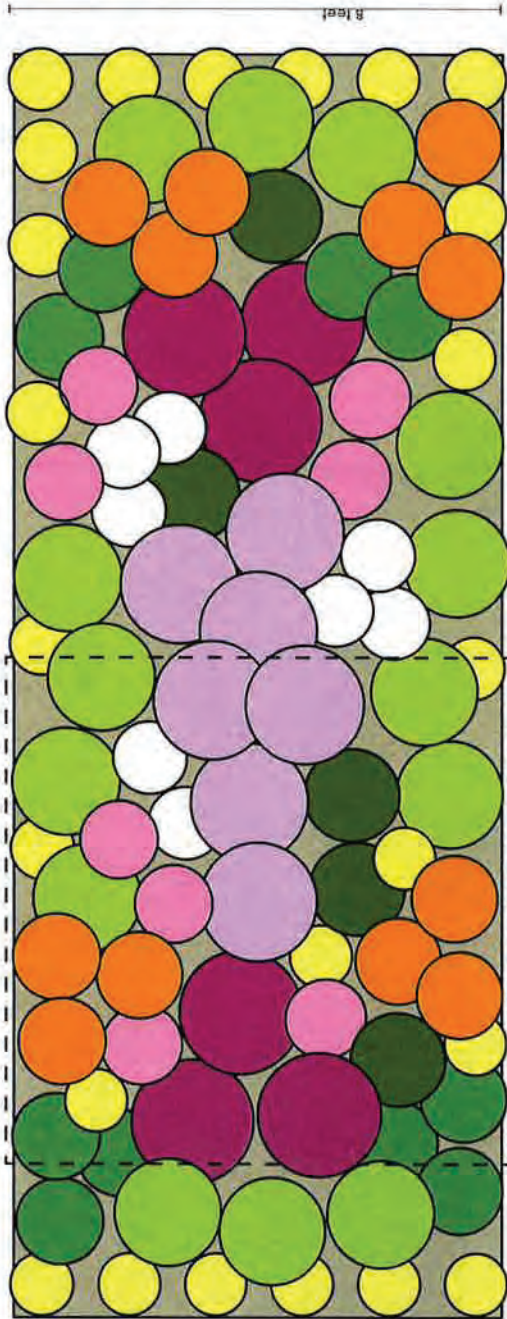
August

September-Oct.

Note: To make this planting smaller, eliminate the center portion of the design, shown in the dotted black line.

Keep plants in groups to create more visual impact and make it easier for pollinators to forage efficiently.

Low growing plants are on the edges, taller plants in the center.



Featured Pollinator:

**Minnesota's State Bee**  
**Rusty-Patched Bumble Bee**  
*Bombus affinis*  
 Key nectar and pollen plants include **Purple Prairie Clover, Narrow Leaved Coneflower, Butterfly Milkweed, Wild Bergamot and Silky Aster**

# Substitutions for selected species

Use plants found within their natural range, this helps protect nearby native plant communities and provides plant species that are sure to be compatible with local insect populations.

## Prairie Dropseed

Little Blue-stem, Side Oats Grama, Hairy Grama, Blue Gramm, Purple Love Grass, Pennsylvania Sedge\*, Bicknell's Sedge

## Wild Strawberry

Pussytoes, Bearberry\*, False Strawberry\*, Creeping Thyme\*, Sedum\*, Wild Petunia, Prairie Smoke, Creeping Speedwell\*, Creeping Phlox\*, Harebells\*, Ground Plum

## Alumroot

Bishop's Cap\*, Wild Ginger\*, Coral Bells\*, Lady's Mantle\*, Berginia\*, Hostas\*, Prairie Careopsis, Prairie Onion, Jacob's Ladder\*, Wild Geranium\*, OvaLeaf Milkweed, Downy Wood Mint\*

## Purple Prairie Clover

Lead Plant, Wild Lupine, Wild Blue Indigo\*, Cream Wild Indigo\*, Perennial Salvia\*, Hyssop, Hoary Vervain, Sneezeweed\*, Canada Anemone

## Narrow Leaved Coneflower

Dense Blazingstar, Purple Coneflower, Pale Coneflower, Prairie Onion, Foxglove Penstemon, Large-Flowered Penstemon, Sweet Black-Eyed Susan, Blanket Flower hybrids\*

## Butterfly Milkweed

Common Milkweed, Prairie Larkspur, Evening Primrose, Flowering Spurge, Lead Plant, Prairie Phlox, Wild Blue Phlox\*, Poppy Mallow\*, Autumn Joy Sedum

## Wild Bergamot

Bee Balm Hybrids\*, Spotted Horsemint, Mountain Mint\*, New Jersey Tea, Catmint, Russian Sage\*, Lamb's Ear\*, Culver's Root, Bugbane\*

## Pearly Everlasting

Common Yarrow, Yarrow cultivars\*, Calico Aster\*, Calamintha\*, Catmint\*, Cornflower\*, Dianthus\*, Borage\*, Oregano\*, Prairie Rose, Lamb's Ear\*,

## Silky Aster

Heath Aster, Aromatic Aster, Sky Blue Aster\*, Maryland Figwort, White Upland Aster, Giant Hyssop, White Sage, Cream Gentian, Stiff Goldenrod

\* non-native \* Shade alternative ^ Larger Plant -use 1 plant to replace 3 shown in template

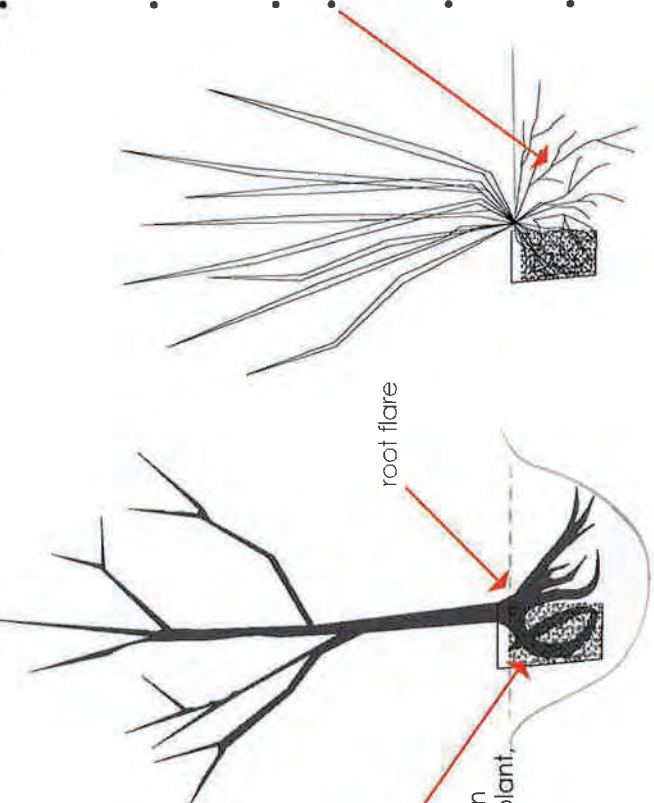
# Planting Tips for new gardeners

## TREES & SHRUBS

- Prepare your new garden bed. Use methods found on BWSR's Creating Residential Pollinator Habitat page
- Dig a hole as deep and 2-3 sizes wider than the pot. Remove the pot.
- Loosen roots and remove any roots that have growing a circle around the base of the plant.
- The soil level should be just below the flare of the tree or shrub and the base of your plant.
- Spread roots, then re-fill hole. Tamp soil down gently around the roots. Mulch around the plant, but don't place mulch against the trunk.
- Water immediately after planting, then once a week for the first summer

## PERENNIAL PLANTS

- Prepare your new garden bed. Use methods found on BWSR's Creating Residential Pollinator Habitat web-page
- Dig a hole as deep and 2-3 sizes wider than the pot.
- Remove the pot.
- Loosen roots and remove any roots growing in a circle around the base of the plant.
- Mulch around the plant, but don't place mulch against the stem.
- Water immediately after planting, then once a week for the first summer.



PRAIRIE DROP SEED	30 @	\$9.95
Wild STRAWBERRY	52 @	\$9.95
ACUMROOT	12 @	9.95
PURPLE PRAIRIE CLOVER	12 @	9.95
NARROW LEAFED CONE FLOWER	16 @	9.95
BUTTERFLY MILKWEED'S	26 @	9.95
WILD BERGAMOT	16 @	9.95
PEARLY EVERLASTING	17 @	9.95
SILKY ASTER	10 @	9.95
		\$ 1900.45

MULCH 38 BAGS @ 4.00 BAG  
 \$ 152.00  
 TOTAL \$ 2,052.45

# V. A. Ulm Turf Replacement

## SHG 2024-05 Grant Application

Lauren Sampedro  
TEC Meeting  
6/12/2024



### Soil Health-Ulm









## Sunny and Low Garden for Pollinators

These plants were selected for their drought tolerance and height. Most are 24" or under, ranging to 36" in the center. Plants in this design are tough enough for a dry boulevard.

**Prairie Dropseed**  
Fine leaves create 2' high mounds of texture that will offset the height and color of the blooms around it. Prairie Dropseed is most beautiful in groups.

PD 14 plants



height 34"

**Wild Strawberry**  
This low ground-cover will spread throughout this planting, helping to stabilize soil and conserve moisture and providing tiny but delicious early summer fruit.

WS 24 plants



height 24"

A low-growing native coral bell. **Alumroot** provides early blooms and it's crisp leaves will look great against the textures of Butterfly Milkweed and Prairie Dropseed grass.

AR 6 plants



height 24"

**Purple Prairie Clover** is a graceful legume that forms a vase-shape of blooming stems beloved by pollinators. It is not a favored food of deer or rabbits and is extremely drought resistant.

PP 14 plants



height 24"

**Narrow Leaved Coneflower** Minnesota's only native coneflower. It is shorter than its relative Purple coneflower, but with similar flowers. Host plant of the Ottoo Skipper butterfly.

NL 8 plants



height 24"

**Butterfly Milkweed's** bright mid-summer flowers attract butterflies and bees alike. Vibrant color and tough, this plant can handle boulevard conditions. Butterfly Milkweed is amazing!

BM 12 plants



height 24"

**Wild Bergamot** One of the best plants for attracting native pollinators, some people call it "Sweet Leaf" because the edible foliage can be made into a minty tea.

WB 7 plants



height 36"

**Peony Everlasting** attracts bees and butterflies and blooms in the hottest time of the summer when pollinator foods are sometimes scarce. Beautiful fuzzy silver foliage.

PE 8 plants



height 24"

**Silky Aster** This aster has a sprawling habit and is best supported by other plants. It is a host plant for Silvery Checkerspot larva. Blooms last from summer into late fall.

SA 5 plants



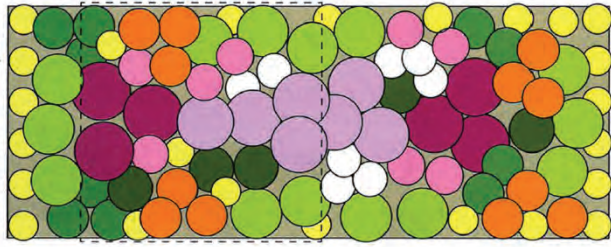
height 24"

Bloom Time: May, June, July, August, September-Oct.

Note: To make this planting smaller, eliminate the center portion of the design shown in the dotted black line.

Keep plants in groups to create more visual impact and make it easier for pollinators to forage efficiently.

Low growing plants are on the edges, taller plants in the center.



Featured Pollinator:  
**Minnesota's State Bee**  
**Rusty-Patched Bumble Bee**  
*Bombus affinis*  
Key nectar and pollen plants include **Purple Prairie Clover, Narrow Leaved Coneflower, Butterfly Milkweed, Wild Bergamot and Silky Aster**



[bwsr.state.mn.us/creating-residential-pollinator-habitat](http://bwsr.state.mn.us/creating-residential-pollinator-habitat)

# Soil Health Grant Application



Submit completed application to:  
 Lauren Sampedro  
 lauren.sampedro@vlawmo.org



## Applicant Information:

Name:	Carrie Gmeinder
Address:	3923 Stoydale Dr.
City/Township, State, Zip:	Vadnais Heights MN 55127
Phone:	651-592-7303
Email:	care7710@gmail.com

## Project Summary:

ESTIMATED TOTAL PROJECT COST (\$)	\$750 <sup>00</sup>
AMOUNT REQUESTED (\$1,000 MAX or \$1,250 in Priority Area)	\$560 <sup>00</sup> \$562.50
EXPECTED PROJECT COMPLETION (Month, Year)	06/24

### PROJECT TYPE:

- Downspout/Small Raingarden
- Native Restoration/Pollinator Garden
- Turfgrass Replacement
- Other

If other, please describe the proposed project: \_\_\_\_\_

## Project Background:

Describe your property.	Residence on 0.7 acre To establish a native + pollinator garden. To improve soil health and bring beauty to our home w/ native flowers!
What is the purpose of your project?	
Does your property connect to a lake, stream, ditch, or wetland in VLAWMO?	

## Project Background: Continued

<p>Describe how your project will support the goals of the Soil Health Grant Program. (See grant policy)</p>	<p>By planting native species + erosion control materials mulch, we are helping improve water quality + soil health. We are creating a pollinator friendly landscape.</p>
--	---

<p>Briefly describe the planned installation and maintenance activities for your project.</p>	<p>small scale garden in front yard. maintenance will be by-hand-weeding. watering will be set up. we will lay mulch</p>
---	--

## Project Specifications:

<p>TOTAL PROPERTY AREA (Acres)</p>	<p>0.7 acre</p>
<p>Total PROJECT SIZE (SQ FT)</p>	<p>12000 feet</p>
<p>IF APPLICABLE: DEPTH OF RAINGARDEN BASIN (Inches)</p>	<p>NA</p>



## Required Attachments:

- ⇒ Detailed drawing or plan of the proposed project.
- ⇒ Detailed project budget estimate with itemized costs and materials that equal your total estimated cost.

# VLAWMO Soil Health Grant Agreement



## It is understood that:

1. The grantee is responsible for maintaining the project for at least 5 years after its installation. VLAWMO is not responsible for completing maintenance activities.
2. The grantee will participate in VLAWMO's outreach and project sharing efforts.
3. A project may be visited and inspected by a VLAWMO representative during the 5-year maintenance period.
4. Grant awards will expire within 1 year of grant approval unless the project is extended with VLAWMO approval.

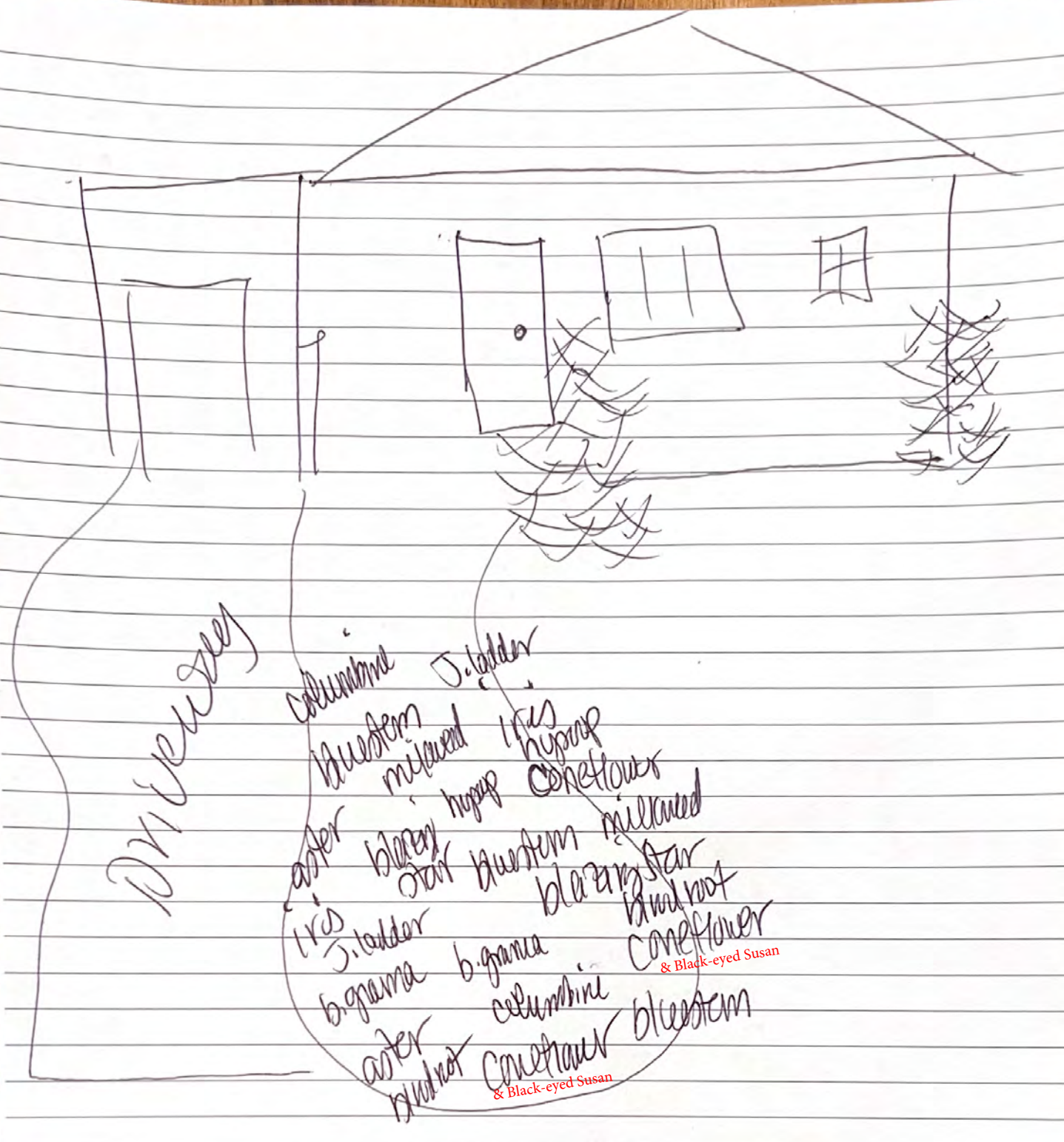
The applicant's signature indicates their agreement to the above terms and certifies the grant application information is true and accurate. A VLAWMO staff signature will constitute an approved and executed grant agreement between the grantee and the VLAWMO.

<b>Applicant/Grantee</b>	
Signature <u><i>CMGmeinder</i></u>	Date <u>5/20/24</u>
Print <u>CARRIE Gmeinder</u>	
<b>VLAWMO Staff</b>	
Signature _____	Date _____
Print _____	

# PROJECT BUDGET

- Prairie Coneflower - *Ratibida Pinnata* - 8 plants x \$5 = \$40
- Black Eyed Susan - *Rudbeckia triloba* - 8 plants x \$5 = \$40
- Narrow leaved Coneflower - *Echinacea angustifolia* - 8 plants x \$5 = \$40
- Silky Aster - 8 plants x \$5 = \$40
- Iris Versicolor - 8 plants x \$5 = \$40
- Jacobs ladder - *Polemonium reptans* - 8 plants x \$5 = \$40
- Anise hyssop - 8 plants - x \$5 = \$40
- northern blazing star - 8 plants x \$5 = \$40
- maroon blazing star - 8 plants x \$5 = \$40 (*Liatris spicata*)
- little bluestem - *Schinachyrium scoparium* 10 plants x \$5 = \$50
- blue grama - *Bouteloua gracilis* 10 plants x \$5 = \$50
- march milkweed - *Asclepias incarnata* 8 plants x \$5 = \$40
- Blood root - *Sanguinaria canadensis* 8 plants x \$5 = \$40
- columbine - 8 plants x \$5 = \$40
- planting mix organic compost  
9 bags x \$10 = \$90
- mulch - 20 bags x \$4 = \$80

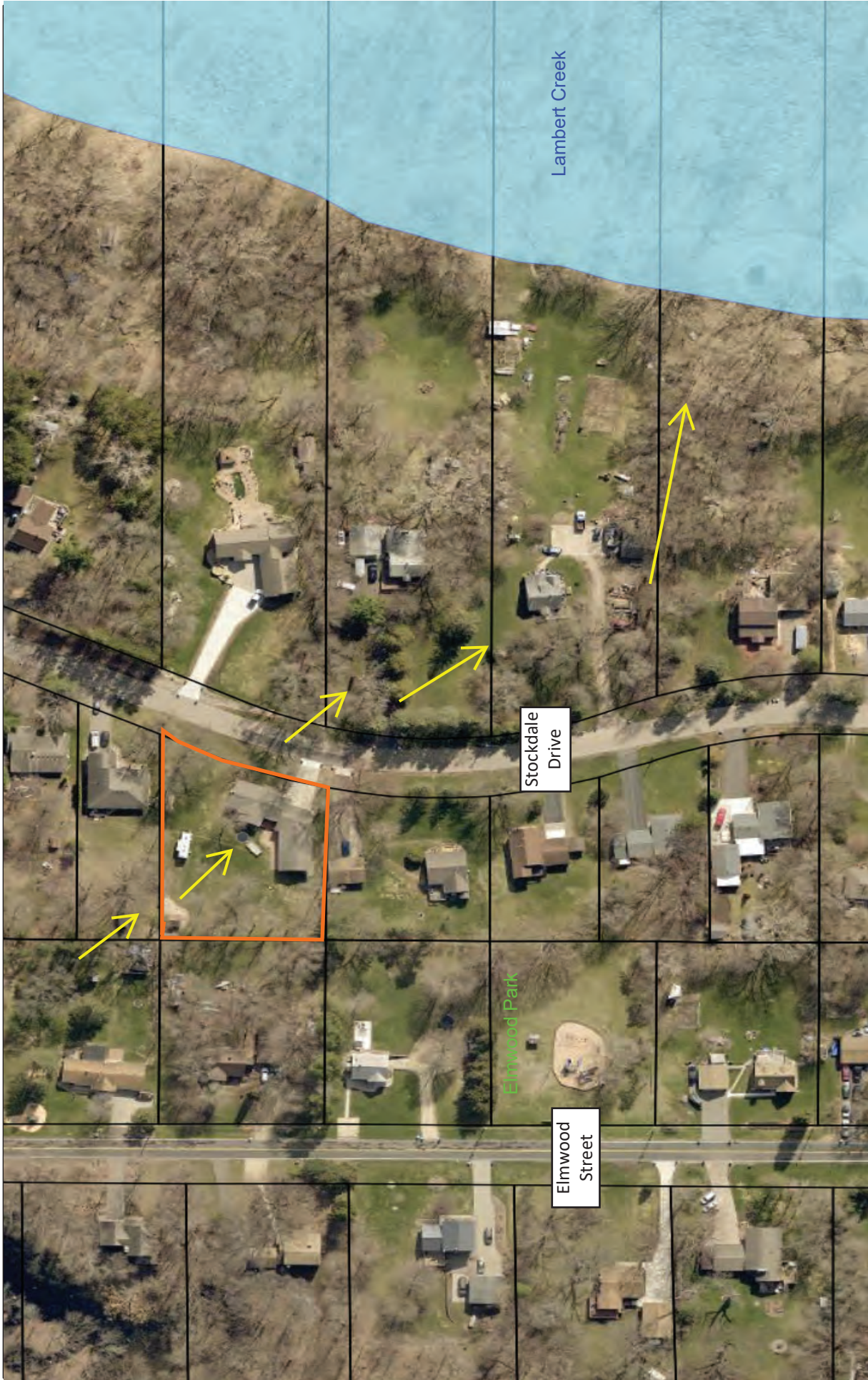
\$750 ✓



Driveway

Street

# SHG 2024-06 Gmeinder Pollinator Garden Application



6/4/2024, 7:45:11AM

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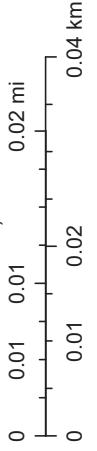


Ramsey County Parcels



Project Location

Flow Arrows



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA | ArcGIS Web AppBuilder

# V. B. Gmeinder Pollinator Garden

## SHG 2024-06 Grant Application

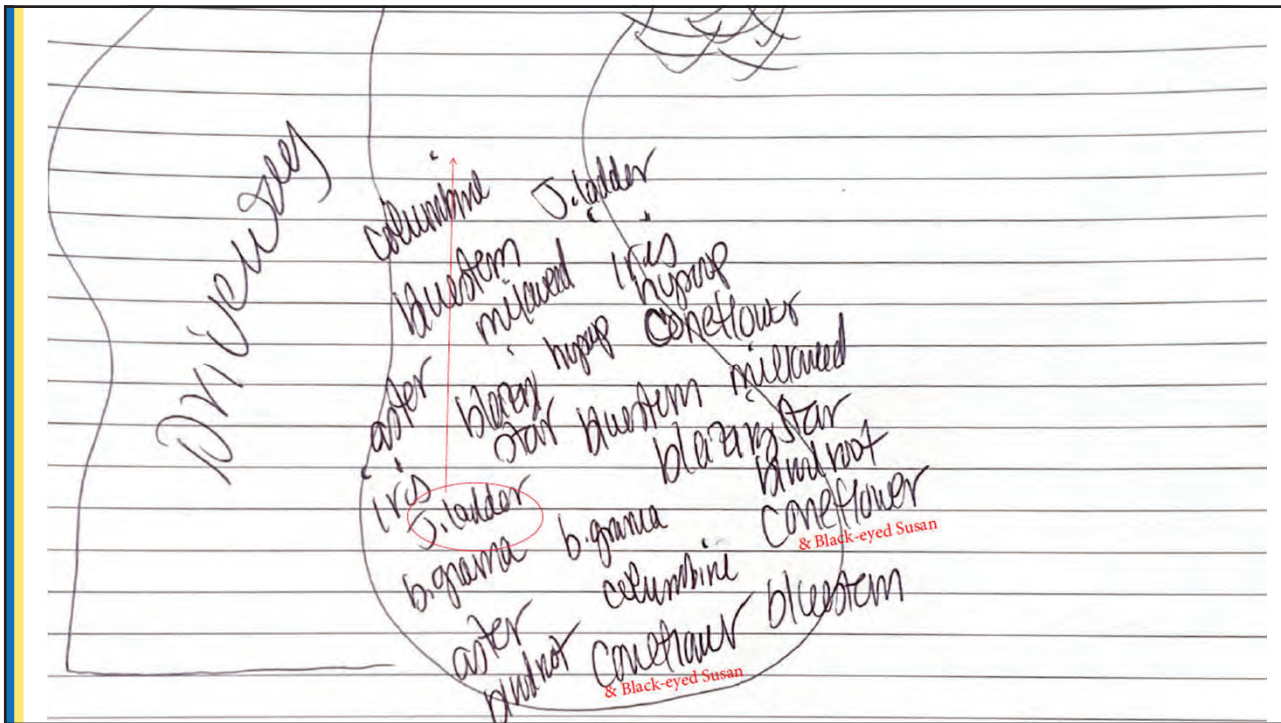
Lauren Sampedro  
TEC Meeting  
6/12/2024



### Soil Health-Gmeinder







# Soil Health Grant Application



Submit completed application to:  
 Lauren Sampedro  
 lauren.sampedro@vlawmo.org



## Applicant Information:

Name:	Gordon Farmer
Address:	3 Blue Crane Lane
City/Township, State, Zip:	North Oaks, MN 55127
Phone:	951-732-7637
Email:	gfarmer1@gmail.com

## Project Summary:

ESTIMATED TOTAL PROJECT COST (\$)	\$3,007.50
AMOUNT REQUESTED (\$1,000 MAX or \$1,250 in Priority Area)	\$1,250
EXPECTED PROJECT COMPLETION (Month, Year)	July 2024 for Phase 1

### PROJECT TYPE:

- Downspout/Small Raingarden
- Native Restoration/Pollinator Garden
- Turfgrass Replacement
- Other

If other, please describe the proposed project: \_\_\_\_\_

## Project Background:

Describe your property. What is the purpose of your project?	We want to convert our sloped front yard from a turf lawn to a pollinator garden
Does your property connect to a lake, stream, ditch, or wetland in VLAWMO?	The project area is 50' uphill from a wetland in VLAWMO and drains to Pleasant Lake.

## Project Background: Continued

<p>Describe how your project will support the goals of the Soil Health Grant Program.</p> <p>(See grant policy)</p>	<p>Currently, our yard is turf and therefore has a poor root system and does not help small mammals or insects. We would like to convert it to a pollinator garden to better keep the soil in place and be a benefit to local pollinators.</p>
<p>Briefly describe the planned installation and maintenance activities for your project.</p>	<p>The installation will be to remove the current turf, bring in top soil to provide a good foundation for the garden and to bring the yard back to the sidewalk height, and then install native plants to create a pollinator garden. We'll water as needed in the first few years to establish the garden.</p> <p>We will weed in the future as needed, though we will use native ground covers to minimize that. No other maintenance is anticipated.</p>

## Project Specifications:

<p>TOTAL PROPERTY AREA (Acres)</p>	<p>1.25 acres</p>
<p>Total PROJECT SIZE (SQ FT)</p>	<p>Approximately 150 square feet</p>
<p>IF APPLICABLE: DEPTH OF RAINGARDEN BASIN (Inches)</p>	<p>N/A</p>



## Required Attachments:

- ⇒ Detailed drawing or plan of the proposed project.
- ⇒ Detailed project budget estimate with itemized costs and materials that equal your total estimated cost.


# VLAWMO Soil Health Grant Agreement



## It is understood that:

1. The grantee is responsible for maintaining the project for at least 5 years after its installation. VLAWMO is not responsible for completing maintenance activities.
2. The grantee will participate in VLAWMO's outreach and project sharing efforts.
3. A project may be visited and inspected by a VLAWMO representative during the 5-year maintenance period.
4. Grant awards will expire within 1 year of grant approval unless the project is extended with VLAWMO approval.

The applicant's signature indicates their agreement to the above terms and certifies the grant application information is true and accurate. A VLAWMO staff signature will constitute an approved and executed grant agreement between the grantee and the VLAWMO.

<b>Applicant/Grantee</b>	
Signature 	Date <u>6/2/24</u>
Print <u>Gordon Farmer</u>	
<b>VLAWMO Staff</b>	
Signature _____	Date _____
Print _____	

# SHG 2024-07 Farmer Turf Replacement Application



6/4/2024, 1:05:02PM

1:1,128



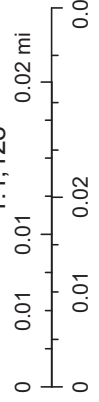
Ramsey County Parcels



Project Location



Flow Arrows



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA | ArcGIS Web AppBuilder



Lawn and Landscape Gardens  
 300 Civic Heights Dr #513  
 Circle Pines, MN 55014 US  
 +17639513500  
 carrie@llgardens.com  
 www.llgardens.com

# Estimate



ADDRESS
Gordon and Kate Farmer 3 Blue Crane Ln North Oaks, MN 55127

SHIP TO
Gordon and Kate Farmer 3 Blue Crane Ln North Oaks, MN 55127

ESTIMATE #	DATE
	04/26/2024

Homeowner's notes to VLAWMO:  
 Highlighted items are for front yard project that is in-scope for VLAWMO Pollinator Garden Grant.  
 Non-highlighted items are for backyard and area under our deck where no plants grow (even weeds) and is not in-scope for the Grant.

**SALES REP**  
 Anthony Tamble

DATE	ACTIVITY	DESCRIPTION	RATE	AMOUNT
	<b>Removal Sod</b>	Strip front yd up to meter area and in back	495.00	495.00
	<b>plants</b>	Install 5 dwarf bush honeysuckle, 5 bear berry 1 gal, 5 common blue violet 1gal, 5 columbine 1 gal, 5 wild ginger 1 gal, 10 calico asters, 2 flats bottle brush grass, 2 flats pennsylvania sedge	1,500.00	1,500.00
	<del><b>Boulders 12"-24"</b></del>	<del>install 1 ton 12-24in boulders by meter</del>	<del>500.00</del>	<del>500.00</del>
	<del><b>step unit chilton</b></del>	<del>Install two 3 to 4ft wide chilton step units near meter</del>	<del>900.00</del>	<del>900.00</del>
	<del><b>Flagstone</b></del>	<del>chilton flag stone path in front yard about 15 17 pieces</del>	<del>900.00</del>	<del>900.00</del>
	<b>Removal Sod</b>	Grade sod in back and add topsoil to level	700.00	700.00
	<b>Pulverized Topsoil</b>	15 yds for front, <del>and backyard</del>	135.00	<del>2,025.00</del> \$1,012.50
	<b>Seed Premium Sun/Shade Mix</b>	50 lbs for back yard	10.00	500.00
	<b>Straw Bale</b>	4 bags in back yard	50.00	200.00
	<b>Decorative Rock</b>	4 yds 1.5in river rock under deck (this # may change)	240.00	960.00
	<b>Underlayment Fabric</b>	under river rock	150.00	150.00
	<b>Deliveries</b>		80.00	320.00

SUBTOTAL	9,150.00
TAX	0.00
TOTAL	<del>\$9,150.00</del> \$3,007.50

Accepted By

Accepted Date

# V. C. Farmer Turf Replacement

## SHG 2024-07 Grant Application

Lauren Sampedro  
TEC Meeting  
6/12/2024



### Soil Health-Farmer







**Proposed Plant Species for Phase 1:**

- Bearberry
- Columbine
- Wild Ginger
- Calico Aster
- Pennsylvania Sedge
- Common Blue Violet
- Bottlebrush Grass
- Dwarf Bush Honeysuckle



# BWSR Watershed-based Implementation Funding (WBIF) Program Convene Process

FY '24-25

Lauren Sampedro  
TEC Meeting  
6/12/2024



## Background on BWSR WBIF



- Funding made available from the Clean Water Fund



- ❖ Funds for advancing State's water resource goals through prioritized and targeted cost-effective actions with measurable water quality results.

- Purpose of WBIF is to enhance existing funding to implement clean water activities towards State's water resource goals

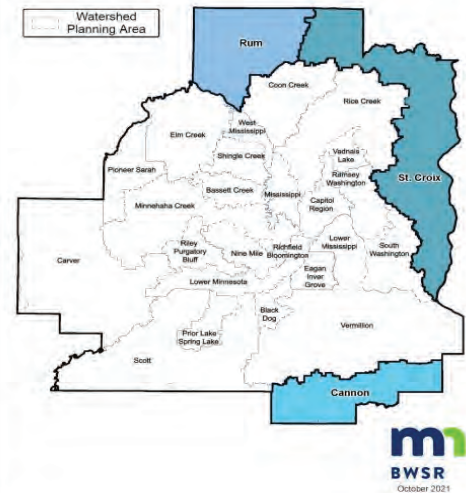
Vadnais Lake Area Water Management Organization

## BWSR WBIF Fund Allocation



- WBIF funds allocated to statewide and metro
- \$9 million allocated to metro area this funding cycle by smaller watersheds
- Allows LGUs to pursue projects based on a specific watershed's local priorities
- Vadnais Lake Area allocated **\$147,921**
- Requires 10% match

Twin Cities Metro Area Allocation Map for the Watershed-based Implementation Funding Program



## BWSR WBIF Eligibility



- Eligible entities for WBIF: counties, municipalities, SWCDs, WDs, and **WMOs** [only if have current approved & adopted plans]
  - ❖ One Watershed One Plan
  - ❖ Watershed Management Plan
  - ❖ County Groundwater Plan\*
  - ❖ Metro SWCD Enhanced Plan

\*Ramsey County doesn't currently have an approved groundwater plan

Vadnais Lake Area Water Management Organization

## BWSR WBIF Eligible Grant Activities



- Projects and programs that protect, enhance, and restore surface water quality in lakes, rivers, and streams; protect groundwater & drinking water from degradation
- Must be in implementation section of WMP
- Activities focused on prioritized, targeted, & measurable water quality benefits



Vadnais Lake Area Water Management Organization

## Process Guidance from State



- Hold at least 1 convene meeting with partners to jointly choose proposed grant activities and coordinate a WBIF funding request to BWSR
- Select decision-making representatives before holding convene meetings
- Select convene meeting coordinator/facilitator



Vadnais Lake Area Water Management Organization

## Selecting Decision-Making Representatives



- Requires a minimum of 1 representative from the WD/WMO, 1 from SWCD, 1 county with approved groundwater plan, and up to 2 municipal representatives

Select 2 people to serve as decision-making representatives

-Recommend involving municipal staff members

Vadnais Lake Area Water Management Organization

## Selecting Convene Meeting Facilitator



Consider selecting VLAWMO staff as facilitator or coordinator of convene meetings

Vadnais Lake Area Water Management Organization

## Current FY '22-23 WBIF Program



- \$75,000 total awarded amount for grant program implementation
  - ❖ Elmwood Park raingarden in Vadnais Heights in Lambert Creek subwatershed (*construction scheduled this summer*)
  - ❖ Potential residential curb cut raingardens in White Bear Lake in Lambert Creek subwatershed (*still in planning phase*)
  - ❖ Pursuing additional partnership projects if any funding remains

Vadnais Lake Area Water Management Organization

## Proposed FY '24-25 WBIF VLAWMO Process



- Hold first convene meeting in July/August & host virtually
  - Invite municipal staff not currently on VLAWMO TEC
- Given success of previous approaches, VLAWMO initially proposes using FY'24-25 Vadnais Lake Area allocation of \$147,921 towards partnership projects through the existing LL2 Grant Program

Vadnais Lake Area Water Management Organization

## Proposed Timeline



- **June 2024 TEC meeting :**
  - Start selection of decision-making representatives & convene meeting coordinator
- **July-August 2024:** Convene meeting/s to select activities for funding
- **July 1, 2024:** Funding becomes available
- **July-Nov. 2024:**
  - Send proposed grant activities Work Plan to BWSR
  - Submit eLINK funding request
- **April 30, 2025:** Last day to submit an eLINK funding request
- **June 1, 2025:** Grant execution deadline
- **Dec. 31, 2027:** Grant expiration

*Vadnais Lake Area Water Management Organization*

# VLAWMO Watershed Management Plan Update

## Draft Plan Issues and Descriptions

**INITIAL DRAFT for TEC Discussion: June 12, 2024**

Resource Category	Issue	Description	Public Survey	TEC Survey	Board Survey	Partner Table	60-Day Response	Average Score	Average Rank
<b>Surface Water Quality Management</b>	Surface Water and Drinking Water Quality	Surface waterbodies are in need of protection and restoration to preserve surface drinking water sources and promote aquatic life and recreational opportunities.	1	1	1	1	1	1	1
	Erosion of Shorelines and Streambanks	Development along shorelines, reduction of riparian buffers, and increased streamflow accelerates erosion and nutrient loading to surface waters.	N/A	N/A	1	2	2	1.67	1
	AIS Management	AIS such as rough fish and curly leaf pondweed contribute to declining water quality and can outcompete native species, threatening the ecological function of lakes.	2	2	3	3	2	2.4	3
<b>Groundwater Management</b>	Groundwater and Drinking Water Quality	Surface water / groundwater interaction and groundwater contaminants have the potential to impact groundwater quality. VLAWMO supports groundwater quality protection through partnership and technical assistance.	1	1	1	2	1	1.2	1
	Groundwater Supplies and Conservation	Groundwater supplies need to be protected from overuse and replenished through aquifer recharge. VLAWMO supports groundwater quantity protection through partnership and technical assistance.	1	2	1	2	1	1.4	1
<b>Data Collection</b>	Chloride and Emerging Contaminants	Road salt application results in the addition of chloride to roads, lakes, and streams, where it corrodes infrastructure, is toxic to roadside vegetation, and impacts aquatic life. In addition to chlorides, other emerging contaminants have been detected in surface waters may need monitoring per State requirements to protect human and aquatic health.	2	1	3	3	1	2	2
	Water Monitoring	Surface water monitoring is needed to provide an overview of current water quality and quantity conditions and trends, inform future implementation efforts, and document the impact activities have on improving VLAWMO resources.	N/A	1	2	3	1	1.75	1



Resource Category	Issue	Description	Public Survey	TEC Survey	Board Survey	Partner Table	60-Day Response	Average Score	Average Rank
	Data Gaps	Data acquisition, analysis, surveys, and reports may be needed to close data gaps and better inform action.	2	2	3	2	3	2.4	3
	Staff Professional Development and Training	In order to meet needs of the community, VLAWMO staff must have access to professional development and training opportunities, and staff capacity must be adequate to accomplish plan goals.	3	2	3	3	3	2.8	3
Outreach, Education, and Community Engagement	Community Formal Education and Communications	VLAWMO provides formal education opportunities (e.g. curriculum) and maintains current digital communication and outreach to enhance community knowledge in water quality management.	N/A	N/A	3	3	3	3	3
	Outreach and Marketing	VLAWMO staff engage the community through events (demonstration sites of projects and experiential learning) and general outreach efforts (promotion, communication, and marketing) to increase understanding and engagement in VLAWMO efforts, participation, and communication regarding VLAWMO policies.	3	1	3	1	3	2.2	2
	Collaboration and Engagement	There is a need to influence more projects that benefit water resources. VLAWMO staff provide stakeholder and partnership coordination, with collaboration on associated projects that benefit managed resources.	N/A	3	3	1	3	2.5	3
Flooding and Water Quantity	Public Drainage Systems	Public drainage systems are in need of inspection and maintenance to preserve their capacity and function and minimize downstream sediment delivery.	2	2	2	3	2	2.2	2
	Infrastructure Partnership Projects	Aging infrastructure or current infrastructure is in need of expansion for climate change effects and development. VLAWMO collaborates with partners managing infrastructure to build and repair infrastructure projects that help reduce flooding and water quantity.	3	3	3	1	1	2.2	2
	VLAWMO Facilities	To preserve VLAWMO's investment in projects and practices, VLAWMO-built facilities must be inventoried, inspected, and maintained.	N/A	2	3	3	1	2.25	2
Policy and Facilitation	Wetland Conservation Act	VLAWMO, as the local government unit (LGU) for the Wetland Conservation Act (WCA), manages wetlands per State Requirements by ensuring no net loss of wetlands in quantity, quality, and biological diversity in the watershed.	N/A	1	1	2	3	1.75	1

Resource Category	Issue	Description	Public Survey	TEC Survey	Board Survey	Partner Table	60-Day Response	Average Score	Average Rank
	Stormwater Management Standards	VLAWMO does not regulate stormwater management or erosion and sediment control, but provides advisory technical review support to its member communities that enforce associated ordinances and VLAWMO's water standards.	N/A	N/A	2	3	1	2	2
<b>Community and Ecosystem Health and Resiliency</b>	Environmental Justice	There is a need to focus on how plan issues disproportionately impact areas of low income, limited English proficiency, and people of color.	3	3	3	2	2	2.6	3
	Climate Resiliency	Climatic changes have increased the frequency of high-magnitude rainfall and runoff events, which can potentially overwhelm the capacity of existing stormwater management infrastructure. Partnership projects are needed to build resiliency in communities.	2	3	3	1	1	2	2
	Natural Features and Habitat	Within capital improvement project areas, partnership with landowners is needed to promote the protection and management of well-functioning perennial vegetation, forests, floodplains, and upland habitat to support native plant communities, pollinators, rare species, and wildlife and support community livability and resiliency.	1	2	2	1	2	1.6	1

Memorandum

To: Vadnais Lake Area Water Management Organization (VLAWMO)  
 From: Greg Wilson, Barr Engineering Co.  
 Subject: Tracking through Payment #3 for Oak Knoll Pond Spent Lime Application  
 Date: May 24, 2024

At its August 2023 meeting, VLAWMO entered into an agreement with Erosion Works (EW) to apply spent lime, obtained from the White Bear Lake water treatment facility, to Oak Knoll Pond to control sediment phosphorus release. The contract called for a \$1,750 unit price for each load of spent lime applied to the shallower zone (Zone 1; **14 loads**) of the pond and a \$4,500 unit price for each load of spent lime applied to the deeper zone (Zone 2; **8 loads**) of the pond. **As of Payment #3, Zone 2 has been completed, and there are 9 loads remaining for Zone 1.**

EW submitted a request for Payment #3 with single loads of spent lime on each of the following dates:

- 5/8/24—Zone 2
- 5/9/24—Zone 2
- 5/14/24—Zone 1
- 5/23/24—Zone 1

The attachment provides copies of EW’s invoicing for each spent lime load included in Payment #3. Barr recommends that VLAWMO pay EW the total invoiced amount of \$12,500 for the four (4) loads of spent lime applied to Oak Knoll Pond. The project total invoiced and status to date is shown in the table below:

RFP date	Contractor invoices included in RFP	Total Cost	Status
January 24, 2024	#86501 (Z1), #88341 (Z2), #88216 (Z2), #88088 (Z2), #88050 (Z2), #86662 (Z1), #86590 (Z1)	\$23,250	Paid
April 17, 2024	#91009 (Z2), #91058 (Z2)	\$9000	Paid
May 24, 2024	#91763 (Z2), #91808 (Z2), #91909 (Z1), #92178 (Z1)	\$12,500	Recommended for payment
Total cost for invoices received (Zone 1 = 3 and Zone 2 = 6)		\$44,750	
Amount remaining (Total project = \$60,500)		\$15,750	

## Memorandum

**To:** Vadnais Lake Area Water Management Organization (VLAWMO)  
**From:** Greg Wilson, Barr Engineering Co.  
**Subject:** Recommended Payment #3 for Oak Knoll Pond Spent Lime Application  
**Date:** May 24, 2024

At its August 2023 meeting, VLAWMO entered into an agreement with Erosion Works to apply spent lime, obtained from the White Bear Lake water treatment facility to Oak Knoll Pond to control sediment phosphorus release. The contract called for a \$1,750 unit price for each load of spent lime applied to the shallower zone (Zone 1) of the pond and a \$4,500 unit price for each load of spent lime applied to the deeper zone (Zone 2) of the pond.

Erosion Works continued work on the project in May 2024 and applied a single load of spent lime, for the respective zones of the pond, on each of the following dates:

- 5/8/24—Zone 2
- 5/9/24—Zone 2
- 5/14/24—Zone 1
- 5/23/24—Zone 1

The attachment provides copies of Erosion Works' invoicing for each spent lime load applied to Oak Knoll Pond. Barr recommends that VLAWMO pay Erosion Works the total invoiced amount of \$12,500 for the four (4) loads of spent lime applied to Oak Knoll Pond in May 2024.

# Invoice



Erosion Works  
 8177 199th Ave NW  
 Elk River, MN 55330

Date	Invoice #
5/8/2024	91763

<b>Bill To</b>
Vadnais Lake Area Water Management 800 East Co. Rd E Vadnais Heights, MN 55127

Phone 763-262-7458 Fax 763-712-1851 Email: erosionworks@msn.com Website: www.erosionworks.net
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P.O. No.	Terms	Project

Description	Quantity	Rate	Amount
Hydro Seed - Spent Lime Slurry Application to Zone 2 of Oak Knoll Pond	1	4,500.00	4,500.00
Did the above work on 5/8 as requested by Greg			

Thank you for your business.	<b>Total</b>	\$4,500.00
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# Invoice



Erosion Works  
 8177 199th Ave NW  
 Elk River, MN 55330

Date	Invoice #
5/9/2024	91808

<b>Bill To</b>
Vadnais Lake Area Water Management 800 East Co. Rd E Vadnais Heights, MN 55127

Phone 763-262-7458 Fax 763-712-1851 Email: erosionworks@msn.com Website: www.erosionworks.net
--

P.O. No.	Terms	Project

Description	Quantity	Rate	Amount
Hydro Seed - Spent Lime Slurry Application to Zone 2 of Oak Knoll Pond on 5/9	1	4,500.00	4,500.00
Did the above work on 5/9 as requested by Greg			

Thank you for your business.	<b>Total</b>	\$4,500.00
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# Invoice



Erosion Works  
 8177 199th Ave NW  
 Elk River, MN 55330

Date	Invoice #
5/14/2024	91909

<b>Bill To</b>
Vadnais Lake Area Water Management 800 East Co. Rd E Vadnais Heights, MN 55127

Phone 763-262-7458 Fax 763-712-1851 Email: erosionworks@msn.com Website: www.erosionworks.net
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P.O. No.	Terms	Project

Description	Quantity	Rate	Amount
Hydro Seed - Spent Lime Slurry Application to Zone 1 of Oak Knoll Pond on 5/14	1	1,750.00	1,750.00
Did the above work on 5/14 as requested by Greg			

Thank you for your business.	<b>Total</b>	\$1,750.00
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# Invoice



Erosion Works  
 8177 199th Ave NW  
 Elk River, MN 55330

Date	Invoice #
5/23/2024	92178

<b>Bill To</b>
Vadnais Lake Area Water Management 800 East Co. Rd E Vadnais Heights, MN 55127

Phone 763-262-7458 Fax 763-712-1851 Email: erosionworks@msn.com Website: www.erosionworks.net
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P.O. No.	Terms	Project

Description	Quantity	Rate	Amount
Hydro Seed - Spent Lime Slurry Application to Zone 1 of Oak Knoll Pond	1	1,750.00	1,750.00
Did the above work on 5/23 as requested by Greg			

Thank you for your business.	<b>Total</b>	\$1,750.00
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## **Memorandum of Understanding Between Vadnais Lake Area Watershed Management Organization and the North Oaks Home Owners' Association**

This Memorandum of Understanding (“MOU”) is made and entered into by and between the Vadnais Lake Area Watershed Management Organization (“VLAWMO”) and the North Oaks Home Owners’ Association (“NOHOA”) each acting by and through its duly authorized governing bodies.

Whereas, VLAWMO and NOHOA mutually desire to improve and protect shoreline areas and water quality;

Whereas, the Deep Lake Shore and Restoration Plan was completed by Natural Shore Technologies (NST) in 2022 at the request of and funded by NOHOA;

Whereas, the Deep Lake Shore and Restoration Plan included:

- an evaluation and prioritization of shoreline areas for invasive plant removal and shoreline restoration
- division of the shoreline into segments 1 to 27
- prioritization of each segment as either level #1 (exhibiting unique plant communities, high native plant diversity and very low buckthorn cover), level #2 (exhibiting high native plant diversity and low buckthorn abundance), or level #3 (exhibiting low native plant diversity and high buckthorn abundance)

Whereas, Deep Lake restoration efforts included in priority wetland segments are consistent with other ongoing Deep Lake restoration efforts between VLAWMO and NOHOA (i.e., yellow iris removal to support rare plants and water quality);

Whereas, VLAWMO included partner support for this Deep Lake restoration effort in its approved 2023 (completed) and 2024 budgets, and work requested is consistent with that approved budget item;

Whereas, restoration of shoreline segments 4 to 10 and 16 to 21 was completed in 2023, and NOHOA also plans to continue to maintain these areas following restoration as part of their ongoing work with NST;

Whereas, NOHOA desires to proceed with restoration of the following 7 shoreline segments in 2024, 4 of which are wetland segments that VLAWMO is supporting. Costs were provided in the prioritization study for priority 1 segments. The updated quote for 2024 groups completion of the project area and related segments are grouped together. VLAWMO views its support as going toward the wetland segments, and recognizes that the full cost for wetland segments is higher than the \$15,000 allocated in this MOU:

- **Segment 11 (willow-dogwood shrub swamp), priority #1 (\$5,000-\$8,000)**
- **Segment 12 (sedge meadow), priority #3**
- **Segment 13 (willow-dogwood shrub swamp), priority #1 (\$5,000-\$8,000)**

- Segment 14 (southern dry-mesic oak forest), priority #3
- **Segment 15 (willow-dogwood shrub swamp), priority #3**
- Segment 22 (southern dry-mesic oak forest), priority #1
- Segment 23 (southern dry-mesic oak forest), priority #1

Whereas, NST provided a scope and specific cost estimate (Deep Lake Buffer – Buckthorn Control/Ecological Restoration, March 28, 2024) for restoration of shoreline segments 11 to 15, and 22 and 23, which includes buckthorn and other invasive species removal followed by seeding and interplanting of native species, for a total cost of \$32,800.00;

Whereas, healthy native plant communities offer increased resilience and ability to buffer against climate variability and disturbance;

Whereas, the parties wish to clearly define their respective roles and financial support for invasive plant removal and shoreline restoration in 2024 included in the Deep Lake Buffer – Buckthorn Control/Ecological Restoration proposal by Natural Shore Technologies, Inc. (NST) dated March 28, 2024;

Now, therefore, the parties hereby agree to enter into this MOU:

1. NOHOA. NOHOA agrees to do the following:

- Provide for management and oversight of the Deep Lake Buffer—Buckthorn Control/Ecological Restoration scope of work and activities included therein with NST.
- Pay the overall contract with NST at the end of the 2024 growing season that includes a NOHOA (or private contribution facilitated by NOHOA) contribution of \$17,800 and VLAWMO contribution of 50% of documented NOHOA costs up to but not to exceed \$15,000 for invasive plant removal and shoreline restoration.
- Invoice VLAWMO for its portion of completed restoration work after the invoice for 2024 work has been received from NST by NOHOA.

2. VLAWMO Responsibilities. VLAWMO agrees to do each of the following:

- Reimburse NOHOA for 50% of documented costs up to but not to exceed \$15,000 of the costs in the scope of work between NOHOA and NST for invasive plant removal and shoreline restoration on Deep Lake as described above. All reimbursement requests shall include final receipts of payment. VLAWMO reserves the right to inspect the areas of completed work and withhold any or all reimbursement until work is deemed satisfactory by VLAWMO staff.

3. Use of Any Related Documentation. Reports or documents produced in whole or in part under this MOU will be subject to fair use and may not be the subject of an application for copyright by or on behalf of VLAWMO nor NOHOA. VLAWMO and NOHOA may use, without restriction, products of the invasive plant removal and shoreline restoration work including, but not limited to, any associated reports and documents.

4. Term. This MOU is effective on the date of the last party to execute it. This MOU shall terminate upon completion of invasive plant removal and shoreline restoration with NST in 2024 and reimbursement for the professional services costs incurred as provided herein.
5. Termination. Each party has the right to terminate this MOU at any time and for any reason by submitting written notice of the intention to do so to the other party at least thirty (30) days prior to the specified effective date of such termination. VLAWMO shall remain responsible for reimbursing NOHOA for the professional costs it incurs prior to the effective date of the termination.
6. Entire Agreement: Amendments. This MOU constitutes the entire agreement between the parties regarding this matter. No amendments to this MOU are valid unless they are in writing and signed by both parties.

IN WITNESS WHEREOF, the parties have caused this MOU to be executed by their duly authorized representatives and is effective as of the date of the last party to execute it.

**Vadnais Lake Area Watershed  
Management Organization**

**North Oaks Home Owners' Association**

\_\_\_\_\_  
Chairperson



\_\_\_\_\_  
Authorized Representative

\_\_\_\_\_  
Administrator

Date: 5/8/24

Date: \_\_\_\_\_