

VLAWMO TECHNICAL COMMISSION MEETING
8:00 AM February 9th, 2022

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

Action items: ✎

- I. **Call to Order – 8:00am –Chair Gloria Tessier**
- II. **Approval of Agenda**
- III. **Approval of Minutes (January 12th, 2022)**
- IV. **Administration & Operations**
 - A. Financial Report for February & authorization for Payment – Phil ✎ (p. 5)
 - B. February 2022 TEC Report to the Board – Phil ✎ (p. 13)
- V. **Programs**
 - A. Education & Outreach – Nick
 - 1. Community Blue grant application deadlines ✎ (p. 15)
 - B. Cost Share Program – Tyler
 - 1. 2021 Cost Share Grant Extensions ✎ (p. 15)
 - 2. SHG Application 2022-01 Keleher Rain Garden/Native Planting, WBL ✎(p. 22)
 - 3. SHG Application 2022-02 Kanne Native Planting/Restoration, VH ✎(p. 29)
 - 4. LL1 Application 2022-01 Charpenter Rain Garden, VH ✎ (p. 35)
 - 5. LL1 Application 2022-02 Birch L. Ponds HOA L. Creek Bank Restoration, WBT ✎ (p. 42)
 - 6. 2022-2023 RCSWCD Design & Technical Assistance Agreement ✎ (p. 49)
- VI. **Projects-Dawn**
 - A. Biochar project update (p. 17)
 - B. West Vadnais and Pleasant Lake carp projects for 2022 ✎ (p. 54, 57)
 - C. 319 grant/Wilkinson BMP project materials to Board ✎ (p. 60, 75)
 - D. MDA invasive species grant awarded (p. 19)
 - E. DNR invasive species treatment grant in prep (partnership with BLID) (p. 20)
 - F. Maintenance update: Iron-enhanced filter addition to Natural Shores contract (p. 20)
 - G. Great River Greening/Vadnais-Sucker Regional Park restoration maintenance JPA update (p. 20)
 - H. Amelia survey reports in from RCSWCD (posted on VLAWMO website) (p. 21)
- VII. **Commisioner Reports**
- VIII. **NOHOA**
- IX. **Ramsey Soil & Water Conservation Division**
- X. **St. Paul Regional Water Services**
- XI. **Public Comment**
- XII. **Next Meetings:** TEC: March 9th, Regular Board Meeting: February 23rd, 2022
- XIII. **Adjourn**

Upcoming events:

SWPPP Tips (MS4 info session): Feb 17, 22
Watershed Action Volunteers (WAV) meeting: March 17
Blue Thumb Resilient Yards: March 29
Drought Recovery for your Lawn: April 14

**Vadnais Lake Area Water Management Organization
Technical Commission Minutes
January 12, 2022
Vadnais Heights City Hall, Council Chambers
800 County Road E East, Vadnais Heights, MN 55127**

Commission Members Present:

Gloria Tessier	Chair, Gem Lake (GL)
Jesse Farrell	Vice Chair, Vadnais Heights (VH)
Paul Duxbury	Board Liaison, White Bear Township (WBT)
Bob Larson	Treasurer, North Oaks (NO)
Terry Huntrods	White Bear Lake (WBL)
Andy Nelson	Lino Lakes (LL)

Others in attendance: Phil Belfiori, Brian Corcoran, Nick Voss, Dawn Tanner (VLAWMO staff); Sara Shah (North Oaks)

I. **Call to Order – 8:00am –Chair Gloria Tessier** Tessier called the meeting to order at 8:01am

II. **Approval of Agenda**

It was moved by Huntrods and seconded by Larson to approve the January 12th, 2022 TEC agenda as presented. Vote: All aye, motion passed.

Approval of Minutes (December 8th, 2021)

It was moved by Larson and seconded by Huntrods to approve the December 8th, 2021 meeting minutes, as presented. Vote: all eye. Motion passed.

III. **Administration & Operations**

A. Financial Report for January & authorization for Payment

Belfiori described current payments and activities as presented in the financial records from the January 12th TEC packet.

It was motioned by Duxbury and seconded by Larson to approve the January Treasurer's Report and authorization of payments. Vote: All aye, motion passed.

B. 2022 Technical Commission Officer Appointments

Belfiori reviewed the current officer appointments and put forth an opportunity for TEC members to continue the current appointments or nominate new ones for 2022. Tessier nominated Farrell to serve as 2022 TEC chair, Duxbury seconded. Duxbury nominated Tessier as vice chair, Tessier accepted. Duxbury nominated as Board liaison and Larson as Treasurer.

It was moved by Larson to proceed with the new arrangement of Farrell serving as 2022 TEC chair, and seconded by Huntrods. Vote: all aye. Motion passed.

C. 2022 TEC Meeting Dates

Belfiori presented the overview of 2022 meeting dates including the recent 2021 switch from Fridays to Wednesday at 8am in the council chambers. He asked the TEC to confirm that this would continue on into 2022.

It was moved by Farrell and seconded by Duxbury to confirm the TEC 2022 meeting date of 2nd Wednesday at 8am at Council Chambers to be shared with the VLAWMO Board of Directors and displayed on the VLAWMO calendar. Vote: all aye. Motion passed.

D. 2022 Working Budget Overview- Phil

Belfiori described the final 2022 working budget which was approved by the Board of Directors at their Dec 8th, 2021 meeting. Phil described the budget details according to the information presented in the TEC packet. New items in the budget included the Lambert Lake Pond and Meander loan and strategic planning efforts in 2022 going into 2023. No discussion among TEC.

IV. Programs

A. Education & Outreach –

1. Upstream (2021) program review

Voss provided a summary of the information contained in the meeting packet. He discussed the key trend as discovered in the survey results, including the point that the Upstream audience expressed stormwater as water pollution in follow-up surveys. This observation is distinct from general public surveys in that these surveys do not often recognize stormwater as “water pollution.” He discussed the opportunity gained from working with White Bear Center for the Arts in outreach activities.

2. Supplementary Education: Trailcam Adventures, Curly-leaf Pondweed

Voss introduced the videos that were linked in the TEC packet. He summarized the key purpose of message in the two videos related to Lambert Pond project and curly-leaf pondweed management.

V. Projects

A. North Oaks SWMP Review

Corcoran described stormwater management planning and review status in North Oaks based on plan drafts and comments submitted in Jan, 2021. The comments submitted from VLAWMO to North Oaks were oriented towards aligning the North Oaks plan with the VLAWMO water policy. A revised City SWMP will need to be developed per the comments provided and resubmitted to VLAWMO for review.

B. Biochar Project Update – Dawn

Tanner explained that biochar designs are currently being reviewed at a Whitaker Pond site location by the MN Pollution Control Agency. Review is being conducted in coordination with the current 319 funded grant.

C. Pleasant Lake Carp update – Dawn

Tanner described current winter conditions for tracking carp in Pleasant Lake and the shifting uncertain parameters such as weather and ice conditions that go into conducting a possible harvest. Carp aggregations are appearing near open water locations near the Charley/Pleasant Lake channel. Commercial fishers are projected to use airboats to be able to access this open water area. Coordination for permitting is being conducted by the DNR.

VLAWMO Technical Commission Meeting Minutes - January 12th, 2022

Discussion: Duxbury asked about a harvesting goal- Tanner conveyed that Pleasant Lake telemetry studies indicate 168,360 lbs of carp biomass in the lake and the shifting variables will drive the feasibility of a harvest. Duxbury asked what will be done with the harvested carp, Tanner conveyed that fishers connect to the US fish market, which fluctuates based on holiday meals and fertilizer production.

VI. Commissioner Reports

None.

VII. NOHOA

None.

VIII. Ramsey Soil & Water Conservation Division

None.

IX. St. Paul Regional Water Services

None.

X. Public Comment

None.

XI. Next Meetings: TEC: February 9th, Board Strategic Direction Workshop: January 26th, 2022

Duxbury announced a need for absence at the February TEC meeting, an alternate from White Bear Township is being contacted. Phil reminded TEC that meeting quorum is four representatives and recommended that TEC members coordinate alternates with their municipality in advance when an absence is planned.

XII. Adjourn

It was moved by Larson and seconded by Duxbury to adjourn the meeting at 8:34 am., seconded by Duxbury, Vote: all aye. Motion passed.

VLAWMO Finance Report: February, 2022

Feb-22		Actual 2/1/22	Actual to Date	2022 Budget	2021 carry over/Grants	Remaining in Budget	2022 Available	Act vs. Budget
BUDGET #	INCOME							
5.11	Storm Water Utility	\$18,626	\$440,247	\$1,019,521	\$0	\$579,274	\$1,019,521	43%
5.12	Service Fees	\$0	\$0	\$200	\$0	\$200	\$200	0%
5.13	Interest + mitigation acct	\$14	\$29	\$1,500	\$0	\$1,471	\$1,500	2%
5.14	Misc. income - WCA admin & other	\$0	\$126	\$3,000	\$0	\$2,874	\$3,000	4%
5.15	Other Income Grants/ <u>loan</u>	\$29,519	\$29,519	\$324,500	\$0	\$294,981	\$324,500	9%
5.16	Transfer from reserves	\$0	\$0	\$192,367	\$133,751	\$326,118	\$326,118	0%
	TOTAL	\$48,159	\$469,921	\$1,541,088	\$133,751	\$1,204,918	\$1,674,839	30%
EXPENSES								
3.1	Operations & Administration							
3.110	Office - rent, copies, post tel supplies	\$2,009	\$4,023	\$27,097	\$0	\$23,074	\$27,097	15%
3.120	Information Systems	\$1,814	\$4,683	\$25,865	\$0	\$21,182	\$25,865	18%
3.130	Insurance	\$0	\$0	\$7,210	\$0	\$7,210	\$7,210	0%
3.141	Consulting - Audit	\$0	\$0	\$8,191	\$0	\$8,191	\$8,191	0%
3.142	Consulting - Bookkeeping	\$0	\$0	\$1,500	\$0	\$1,500	\$1,500	0%
3.143	Consulting - Legal	\$0	\$0	\$5,000	\$0	\$5,000	\$5,000	0%
3.144	Consulting - Eng. & Tech.	\$1,093	\$4,562	\$30,000	\$14,000	\$39,438	\$44,000	10%
3.150	Storm Sewer Utility	\$510	\$510	\$14,000	\$0	\$13,490	\$14,000	4%
3.160	Training (staff/board)	\$225	\$235	\$12,500	\$0	\$12,265	\$12,500	2%
3.170	Misc. & mileage	\$91	\$219	\$6,300	\$0	\$6,081	\$6,300	3%
3.191	Administration - staff	\$28,812	\$56,604	\$391,400	\$0	\$334,796	\$391,400	14%
3.192	Employer Liability	\$9,131	\$17,817	\$114,425	\$0	\$96,608	\$114,425	16%
3.2	Monitoring and Studies							
3.210	Lake and Creek lab analysis	\$0	\$0	\$18,000	\$0	\$18,000	\$18,000	0%
3.220	Equipment	\$0	\$160	\$3,000	\$0	\$2,840	\$3,000	5%
3.230	Wetland assessment & management	\$0	\$0	\$15,000	\$0	\$15,000	\$15,000	0%
3.240	Watershed Plan Amendment	\$0	\$0	\$15,000	\$0	\$15,000	\$15,000	0%
3.3	Education and Outreach							
3.310	Public Education	\$67	\$67	\$6,000	\$0	\$5,933	\$6,000	1%
3.320	Marketing	\$1,139	\$3,139	\$17,500	\$0	\$14,361	\$17,500	18%
3.330	Community Blue Ed Grant	\$0	\$0	\$2,000	\$0	\$2,000	\$2,000	0%
<i>Total Core functions: Ops, Monitoring, Education</i>		<i>\$44,891</i>	<i>\$92,019</i>	<i>\$719,988</i>	<i>\$14,000</i>	<i>\$641,969</i>	<i>\$733,988</i>	<i>13%</i>
Capital Improvement Projects and Programs								

3.4	Subwatershed Activity							
3.410	Gem Lake	\$0	\$0	\$10,000	\$0	\$10,000	\$10,000	
3.420	Lambert Creek	\$4,727	\$5,176	\$44,432	\$70,000	\$109,256	\$114,432	5%
3.421	Lambert Lake Loan	\$0	\$0	\$38,568	\$0	\$38,568	\$38,568	0%
3.425	Goose Lake	\$8,158	\$17,020	\$70,000	\$10,000	\$62,980	\$80,000	21%
3.430	Birch Lake	\$0	\$0	\$10,000	\$0	\$10,000	\$10,000	0%
3.440	Gif Black Tam Wilk Amelia	\$12,758	\$15,035	\$93,500	\$12,000	\$90,465	\$105,500	14%
3.450	Pleasant Charley Deep	\$1,616	\$4,178	\$35,000	\$10,000	\$40,822	\$45,000	9%
3.460	Sucker Vadnais	\$0	\$0	\$41,500	\$0	\$41,500	\$41,500	0%
3.48	Programs							
3.480	Soil Health Grant	\$111	\$111	\$5,000	\$0	\$4,889	\$5,000	2%
3.481	Landscape 1	\$0	\$0	\$16,000	\$0	\$16,000	\$16,000	0%
3.482	Landscape 2	\$936	\$6,826	\$28,000	\$17,751	\$38,925	\$45,751	15%
3.483	Project Research & feasibility	\$0	\$0	\$0	\$0	\$0	\$0	#DIV/0!
3.485	Facilities Maintenance	\$0	\$34,364	\$102,600	\$0	\$68,236	\$102,600	33%
3.5	Regulatory							
3.510	Engineer Plan review	\$0	\$0	\$2,000	\$0	\$2,000	\$2,000	0%
	<i>Total CIP & Program</i>	\$28,306	\$82,710	\$496,600	\$119,751	\$533,641	\$616,351	13%
	Total of Core Operations & CIP	\$73,197	\$174,729	\$1,216,588	\$133,751	\$1,175,610	\$1,350,339	13%

Fund Balance	1/1/2022	2/1/2022
4M Account	\$775,200	\$692,233
4M Plus Savings	\$324,203	\$324,212
Total	\$1,099,403	\$1,016,445

Restricted funds	2/1/2022
Mitigation Savings	\$21,037
Term Series	\$0

Vadnais Lake Area Water Management Orga
Profit & Loss
 January 13 through February 9, 2022

9:04 AM
 02/02/2022
 Cash Basis

Jan 13 - Feb 9, 22

Ordinary Income/Expense

Income

5.1 · Income

5.11 · Storm Water Utility	18,626.38
5.13 · Interest	14.61
5.15 · Other Income Grants/Loan	29,519.00

Total 5.1 · Income 48,159.99

Total Income 48,159.99

Gross Profit 48,159.99

Expense

3.1 · Administrative/Operations

3.110 · Office

Copies	37.15
Phone/Internet/Machine Overhead	295.00
Postage	12.07
Rent	1,665.00

Total 3.110 · Office 2,009.22

3.120 · Information Systems

GIS web hosting	254.26
IT Support	1,300.19
Website & email hosting	260.48

Total 3.120 · Information Systems 1,814.93

3.144 · Eng. & Tech. 1,093.50

3.150 · Storm Sewer Utility 510.00

3.160 · Training (staff/board) 225.00

3.170 · Misc. & mileage 91.34

3.191 · Employee Payroll

payrol 28,812.81

Total 3.191 · Employee Payroll 28,812.81

3.192 · Employer Liabilities

Admin payroll processing	44.92
Administration FICA	2,085.01
Administration PERA	2,160.96
Insurance Benefit	4,840.72

Total 3.192 · Employer Liabilities 9,131.61

Total 3.1 · Administrative/Operations 43,688.41

3.3 · Education and Outreach

3.310 · Public Education 67.65

3.320 · Marketing 1,139.00

Total 3.3 · Education and Outreach 1,206.65

3.4 · Capital Imp. Projects/Programs

3.420 · Lambert Creek Restoration

LL VLAWMO cash match	4,727.04
Total 3.420 · Lambert Creek Restoration	4,727.04
3.425 · Goose Lake	8,158.00
3.440 · Gilfillan Black Tamarack Wilkin	12,758.90
3.450 · Pleasant Charley Deep	1,616.50
Total 3.4 · Capital Imp. Projects/Programs	27,260.44
3.48 · Programs	
3.480 · Soil Health Grant	111.64
3.482 · Landscape 2	936.00
Total 3.48 · Programs	1,047.64
Total Expense	73,203.14
Net Ordinary Income	-25,043.15
Net Income	-25,043.15

Vadnais Lake Area Water Management Organization
Check Detail
 January 13 through February 9, 2022

9:00 AM
 02/02/2022

Type	Num	Date	Name	Item	Account	Paid Amount	Original Amount
Check	eft	01/13/2022	further		Checking - 1987		-5.00
				Insurance Benefit		-5.00	5.00
TOTAL						-5.00	5.00
Check	eft	01/21/2022	Reliance Standard		Checking - 1987		-313.76
				Insurance Benefit		-90.00	90.00
				Insurance Benefit		-223.76	223.76
TOTAL						-313.76	313.76
Check	eft	01/26/2022	further		Checking - 1987		-5.00
				Insurance Benefit		-5.00	5.00
TOTAL						-5.00	5.00
Check	5284	01/20/2022	Regents of the University of Minnesota		Checking - 1987		-3,584.64
				LL VLAWMO cash match		-3,584.64	3,584.64
TOTAL						-3,584.64	3,584.64
Check	5285	02/09/2022	City of Vadnais Heights		Checking - 1987		-2,009.22
				Rent		-1,665.00	1,665.00
				Phone/Internet/Machine Overhead		-295.00	295.00
				Postage		-12.07	12.07
				Copies		-37.15	37.15
TOTAL						-2,009.22	2,009.22
Check	5286	02/09/2022	Kennedy & Graven, Chartered		Checking - 1987		-2,641.80
				3.440 · Giffillan Black Tamarack Wilkin		-1,499.40	1,499.40
				LL VLAWMO cash match		-1,142.40	1,142.40
TOTAL						-2,641.80	2,641.80
Check	5287	02/09/2022	Houston Engineering, Inc		Checking - 1987		-1,093.50
				3.144 · Eng. & Tech.		-1,093.50	1,093.50
TOTAL						-1,093.50	1,093.50
Check	5288	02/09/2022	wsb		Checking - 1987		-248.50
				3.450 · Pleasant Charley Deep		-248.50	248.50
TOTAL						-248.50	248.50
Check	5289	02/09/2022	Blue Water Science		Checking - 1987		-3,600.00
				3.425 · Goose Lake		-3,600.00	3,600.00
TOTAL						-3,600.00	3,600.00

	Check 5290	02/09/2022 Ramsey County - Plato	Checking - 1987	-4,032.00
			3.450 · Pleasant Charley Deep	-1,368.00 1,368.00
			3.440 · Giffillan Black Tamarack Wilkin	-2,664.00 2,664.00
TOTAL				<u>-4,032.00 4,032.00</u>
	Check 5291	02/09/2022 Barr Engineering Co	Checking - 1987	-13,153.50
			3.425 · Goose Lake	-4,558.00 4,558.00
			3.440 · Giffillan Black Tamarack Wilkin	-8,595.50 8,595.50
TOTAL				<u>-13,153.50 13,153.50</u>
	Check 5292	02/09/2022 Ehlers & Associates, Inc.	Checking - 1987	-510.00
			3.150 · Storm Sewer Utility	-510.00 510.00
TOTAL				<u>-510.00 510.00</u>
	Check 5293	02/09/2022 City Of Roseville	Checking - 1987	-1,300.19
			IT Support	-1,300.19 1,300.19
TOTAL				<u>-1,300.19 1,300.19</u>
	Check 5294	02/09/2022 HDR Engineering, Inc.	Checking - 1987	-260.48
			Website & email hosting	-260.48 260.48
TOTAL				<u>-260.48 260.48</u>
	Check 5295	02/09/2022 Metro Blooms	Checking - 1987	-500.00
			3.320 · Marketing	-500.00 500.00
TOTAL				<u>-500.00 500.00</u>
	Check 5296	02/09/2022 Ramsey County - Plato	Checking - 1987	-936.00
			3.482 · Landscape 2	-936.00 936.00
TOTAL				<u>-936.00 936.00</u>
	Check 5297	02/09/2022 Corey Popp	Checking - 1987	-111.64
			3.480 · Soil Health Grant	-111.64 111.64
TOTAL				<u>-111.64 111.64</u>
	Check 5298	02/09/2022 City of White Bear Lake	Checking - 1987	-37,874.92
			payrol	-28,812.81 28,812.81
			Administration FICA	-2,085.01 2,085.01
			Administration PERA	-2,160.96 2,160.96
			Insurance Benefit	-4,516.96 4,516.96
			Admin payroll processing	-44.92 44.92
			GIS web hosting	-254.26 254.26
TOTAL				<u>-37,874.92 37,874.92</u>
	Check 5299	02/09/2022 Brian Corcoran	Checking - 1987	-16.97

			3.170 · Misc. & mileage	-16.97	16.97
TOTAL				<u>-16.97</u>	<u>16.97</u>
	Check 5300	02/09/2022 Dawn Tanner	Checking - 1987		-61.60
			3.170 · Misc. & mileage	-61.60	61.60
TOTAL				<u>-61.60</u>	<u>61.60</u>
	Check 5301	02/09/2022 Tyler J Thompson	Checking - 1987		-9.97
			3.170 · Misc. & mileage	-9.97	9.97
TOTAL				<u>-9.97</u>	<u>9.97</u>
	Check 5302	02/09/2022 Nicholas Voss	Checking - 1987		-227.80
			3.170 · Misc. & mileage	-2.80	2.80
			3.160 · Training (staff/board)	-225.00	225.00
TOTAL				<u>-227.80</u>	<u>227.80</u>

Vadnais Lake Area Water Management Organization
Custom Transaction Detail Report
 December 1, 2021 through February 1, 2022

1:51 PM
 02/01/2022
 Accrual Basis

	Type	Date	Num	Name	Memo	Account	Clr	Split	Amount	Balance
Dec 1, '21 - Feb 1, 22	Credit Card Charge	12/03/2021		Google*SVCAPPS_VLAWM		US Bank CC	√ WEB		36.00	36.00
	Credit Card Charge	12/09/2021		adobe *photography plan		US Bank CC	√ Software		9.99	45.99
	Credit Card Charge	12/15/2021		joe's sporting goods	ice auger	US Bank CC	√ 3.450 · Pleasant Charley Deep		77.16	123.15
	Transfer	12/20/2021			Funds Transfer	US Bank CC	Checking - 1987		-660.04	-536.89
	Credit Card Charge	12/27/2021		mn Department of Agriculture	renewal pest 2022 license	US Bank CC	√ 3.160 · Training (staff/board)		10.22	-526.67
	Credit Card Charge	12/27/2021		Adobe *Creative Cloud		US Bank CC	√ Software		32.20	-494.47
	Credit Card Charge	12/29/2021		joe's sporting goods	boots for dawn	US Bank CC	√ 3.220 · Equipment		159.95	-334.52
	Credit Card Charge	01/03/2022		Google*SVCAPPS_VLAWM		US Bank CC	√ WEB		36.00	-298.52
	Credit Card Charge	01/14/2022		EDCO	engraved plate	US Bank CC	3.310 · Public Education		67.65	-230.87
	Credit Card Charge	01/14/2022		Survey Monkey	2022 renewal	US Bank CC	3.320 · Marketing		372.00	141.13
	Credit Card Charge	01/19/2022		Prairie Moon Nursery	seed	US Bank CC	3.320 · Marketing		213.00	354.13
	Credit Card Charge	01/19/2022		Conservastore.com	water saving faucet	US Bank CC	3.320 · Marketing		54.00	408.13
Dec 1, '21 - Feb 1, 22									408.13	408.13

TEC Report to the Board
February 2022

Programs & Projects	Effort Level	Completion Date	Comments
	LOW		
	MED		
	HIGH		
Projects			
319 Biochar	HIGH	2021/22	Relocation of Biochar project and feasible site conclusion complete - Design scope of work amendment for biochar project considered at upcoming Board meeting.
East Goose Lk Adaptive Mgmt.	HIGH	2021-ongoing	Anticipated next step is Board consideration of position related to aquatic plant management
Ditch 14 Maintenance project	MED	2022	Phase II complete, will check in spring to make sure vegetation is establishing and if there are any areas of erosion that need attention.
MPCA 319 /Wilkinson Lake BMP	HIGH	2021-24	Anticipated Board consideration of project easement documents and grant agreement at Feb. Board meeting.
Pleasant Lake Carp Management	HIGH	2022	Work is going to attempt to locate fish for possible removal efforts
Programs			
City/Township MS4	LOW	Feb- March	"SWPPP Tips" webinars offered to municipalities in February. Materials development such as door hangers, mailing inserts, and web infographics for MS4 assistance. Gem Lake City Council MS4 presentation in February. WBL Env Adv. Committee partnership for materials creation and outreach planning.
Education/Outreach	LOW	March-June	2022 workshop planning, email newsletters for Feb/March, April. Active communications in social media. Annual report documents: Full annual report, water monitoring summary, watershed at a glance.
Website	LOW	Feb-March	Lambert Creek/Ditch 14 maintenance project page and project map updated to reflect Nov/Dec ditch maintenance efforts. Ditch dredging photos and video synopsis.
WAV	LOW	Dec-Feb	Spring WAV meeting March 17th, "Good Neighbor Guide" production, Tamarack Nature Center pilot program for wetland health monitoring (Teal Pond).
Cost Share & BWSR WBF	MED	ongoing	2022 project planning. VH Bridgewood Park project construction will complete in Spring '22. '21 grant reporting complete and accepted by BWSR.
GIS	MED	ongoing	Sucker & East Vadnais SLMR, how-to writeups,
Monitoring	MED	ongoing	2021 monitoring data and reporting complete.
WCA	MED	ongoing	administering WCA as needed.

TEC Report to the Board
February 2022

Administration & Operation			
Audit		2021/22	Staff currently assembling information for 2021 audit and uploading into the portal.
Budget		21/22	Fund balance carry over "working" 2022 budget approved at the Dec. 2021 Board meeting.
Personnel /HR		ongoing	staff continue to pursue professional development per their approved training plans.
SSU		ongoing	2022 SSU rate information submitted to Ramsey and Anoka Counties in Nov.
Strategic planning		early /mid 2022	Special VLAWMO Board workshop was held on January 26, 2022 to discuss strategic direction. Anticipate meeting with city staff and then TEC on draft high level 5 year project plan

FINANCIAL SUMMARY as of 2/1/2022			CD's		4M Term Series	
					Maturity	Rate
4M Account (1.10)	4M Plus (1.23)	Total			Term series	
\$692,233	\$324,212	\$1,016,445				

Budget Summary	Actual Expense YTD	2022 Budget amended	Remaining in Budget	% YTD
Operations	\$92,019	\$719,988	\$627,969	13%
CIP	\$82,710	\$496,600	\$413,890	17%
Total	\$174,729	\$1,216,588	\$1,041,859	14%

TEC Staff Memo – February 9, 2022

IV. Administration & Operations

A. Financial Report for February & authorization for Payment

Please find the February 2022 Finance Report attached in the ePacket for review and approval.

B. February TEC Report to the Board

Please find the February 2022 TEC Report to the Board attached in the packet for review and approval.

V. Programs

A. Education and Outreach

1. Staff have proposed two annual application deadlines to be integrated into the Community Blue grant program. The proposal is that these deadlines coincide with the April and October TEC meetings, with the exact deadline being one week before the TEC packet is released. For example, the April, 2022 TEC meeting is April 13th, so the Community Blue grant application deadline would be April 1st. The primary reason for the inclusion of application deadlines is for staff efficiency over the course of the year.

The Community Blue program grant guidance document can be found on the VLAWMO website [here](#). The proposed adjustment would take place under “program overview” and “application deadline.” All other components of the grant program would remain the same.

Proposed phrasing for “application deadline” section:

Grant applications are reviewed twice each year, once in spring and once in the fall. Funding is available until annual allocated funding is depleted. Applications may be declined based on funding availability and application prioritization in the review process.

Spring deadline: Two Fridays before the second Wednesday of the month of April.

Example: If the second Wednesday of the Month of April is April 13th, the due date is April 1st to be included in the April TEC agenda for review.

Fall deadline: Two Fridays before the second Wednesday of the month of October.

Example: if the second Wednesday of the Month of October is October 12th, the due date is Sept 30th to be included in the October TEC agenda for review.

B. Cost Share Program

1. 2021 Cost Share Grant Extensions

As with most grant years, some cost share grants aren’t completed within the grant year, due to a number of reasons. In 2021, all Landscape Level 1 grants were closed out, though 4 of 6 Soil Health Grants were not completed or closed out. Staff is

recommending the TEC approve grant completion extensions to September 30th, 2022 for grants: SHG 2021-01, SHG 2021-02, SHG 2021-03, and SHG 2021-04.

2. SHG Application 2022-01 Keleher Rain Garden/Native Planting, WBL
After a site visit and planning in fall 2021, Alison Keleher has submitted a Soil Health Grant application for a 122 sq foot downspout rain garden and native planting for her property in White Bear Lake. Keleher will be performing most of the work herself, and has submitted a detailed cost estimate and project plan. With a total estimate project cost of \$897.75 and being within the Targeted Volume Reduction zone in the Lambert Creek subwatershed, Keleher is requesting a grant amount of \$673.31, or 75% of her project. After review of the application, cost estimate, project plan and plant list, staff is recommending approval of Soil Health Grant 2022-01 in the amount of \$673.31.

3. SHG Application 2022-02 Kanne Native Planting/Restoration, VH
With a site visit and planning in 2021, Katherine Doll Kanne has submitted a Soil Health Grant application for a native planting restoration and stabilization for her property, extending her restoration at the top bank of Lambert Creek/Ditch 14. The restoration area will be a total of 220 square feet, restoring a 20 foot by 11 foot area. The restoration area was prepared in 2021 by Kanne, and the project will be completed solely by the landowner. The proposed project is within the Targeted Volume Reduction zone in the Lambert Creek subwatershed, and the applicant is requesting a grant amount of \$292.50, with a total project estimate of \$390.00. After review of the application, project plan, and cost estimate, staff is recommending TEC-approval of Soil Health Grant 2022-02 in the amount of \$292.50.

4. LL1 Application – 2022-01 Charpenter Rain Garden, VH
A LL1 application was received for a ditch-swale rain garden in Vadnais Heights from applicant Justin Charpenter in Vadnais Heights, after a site visit in 2021. The project location is at the beginning of a street open-ditch culvert drainage system, without curb and gutter, and takes direct stormwater drainage from 3 properties, including Charpenter's. After consultation with Minnesota Native Landscapes, a site plan was designed for an elongated in-ditch infiltration rain garden that would slow, infiltrate, and incoming stormwater, and release excess flows back into the ditch system, downstream. The project location is within the Lambert Creek subwatershed, and stormwater flows on North Oak Drive are directed to Branch Ditch #3, which then empties to Lambert Lake and Lambert Creek. The rain garden basin is sized at roughly 630 square feet and is estimated to reduce total phosphorus loading by .358 lbs per year, as shown in the attached MIDs report. The total project bid by Minnesota Native Landscapes is \$9,462.50, with grant funding requested at %50, for a total of \$4,731.25 in LL1 funding. Upon review, staff is recommending approval of LL1 grant application 2022-01 for funding in the amount of \$4,731.25.

5. LL1 Application – 2022-02 BLP HOA Lamb. Creek Streambank Resto., WBT
In communication with staff since 2021, the Birch Lake Ponds HOA has submitted a LL1 grant application for restoring and stabilizing a small, heavily-trafficked section of Lambert Creek/Ditch 14 in White Bear Township that leads to Fox Meadow Park. Though the project would be a total of 150 square feet, this is part 1 of a 3-phase plan to stabilize and restore the HOA's west bank of Ditch 14. The project plan and cost estimate includes large tree removal, working with the ICWC sentence to serve crew for debris cleanup, and final stabilization and native planting, contracted with Landbridge Ecological. The total estimated project cost is \$3,494, with a LL1 grant request of 50% funding at \$1,747. Staff is recommending approval of grant application LL1 2022-02 in the amount of \$1,747.

6. 2022-2023 RCSWCD Design & Technical Assistance Agreement
As in 2021, staff has been in discussion with the RCSWCD for technical & design assistance for projects and programs, as needed. In 2021, SWCD staff was wonderful to work with and was a key driver in both the White Bear Lake & Bridgewood Park curb cut rain garden projects. The 2021 Agreement ended on December 31st, and VLAWMO staff would like to renew, but instead for a 2 year agreement for years 2022 through 2023, with a funding limit of \$20,000. VLAWMO only used \$2,807 of the \$4,999 budget in 2021, though the outlook for the next 2 years looks to have many potential municipal partner projects. VLAWMO staff may also seek to use this budget for GIS assistance, if needed, after Tyler has left, especially for the Storm Sewer Utility process in the summer. The RCSWD has rates that are well-below contracting engineers, and they are great project partners. Staff is recommending the TEC recommend to the Board renewal of an agreement with the Ramsey County Soil & Water Conservation Division for years 2022-2023 in the amount of up to \$20,000.

VI. Projects

A. Biochar project update

SEH has determined that the Whitaker Pond site is feasible for construction of the biochar filter. A change order is in prep with MPCA and will be presented to the Board for consideration at the February meeting. SEH provided an amendment to their scope of work for remaining biochar filter design and permitting. That scope of work amendment and letter of site feasibility will also be presented to the Board for their consideration at the February meeting.

The draft concept plan biochar filter footprint illustration, prepared by SEH, is included in the packet.

The UMN accepted VLAWMO's terms of the settlement sent by VLAWMO on December 22, 2021. The settlement letter was drafted with assistance from VLAWMO's legal representative. That settlement resolved the outstanding invoice from the UMN for \$17,368.37. VLAWMO paid \$3584.64, which was the amount remaining in the respective

task in the 319 grant workplan for UMN's biochar lab testing and design services. The UMN signed the settlement letter on January 14, 2022. Upon receipt, VLAWMO sent the check for the agreed upon amount.

B. West Vadnais and Pleasant Lake carp projects for 2022

VLAWMO staff have continued with telemetry monitoring. The commercial fisher and WSB prepped the site by plowing an access road, drilling holes to drop the nets, and plowing a haul site. A commercial harvest was attempted on January 29, 2021. The carp scattered to various locations across the lake. VLAWMO staff, WSB, and the commercial fisher are continuing to monitor and looking for the aggregation to regroup. Acoustic speakers may be used to attempt to drive the carp back to the intended haul area. The carp are currently in a smaller aggregation on the beach side. The ice is not safe for a harvest attempt in that area. We appreciate the diligent efforts of the commercial fishing crew and WSB on Pleasant Lake during extremely cold temperatures and under difficult conditions.

VLAWMO staff have prepared next steps for the carp projects for 2022 for Pleasant Lake and West Vadnais Lake.

In partnership with Ramsey-Washington Metro Watershed District (RWMWD) and following the recommendations of Carp Solutions experts, staff request a recommendation to the Board to authorize the Proposal for Fish Community Surveys in West Vadnais Lake for a total of \$6,220 in 2022. RWMWD staff also support this proposal from Carp Solutions. See the scope of work and quote in the TEC packet.

The Pleasant Lake carp winter removal may not be successful. Difficult conditions may have contributed to this, and carp are known to be challenging to remove. VLAWMO staff and close coordination with WSB and the commercial fisher gave us the best possible opportunity for a winter harvest on Pleasant Lake. If that effort proves unsuccessful, the next step is to use PIT tag data collected the previous 2 seasons to conduct a carefully timed and monitored stream removal when the carp move from Pleasant Lake to the barrier at Wilkinson. VLAWMO staff requested services from Carp Solutions to do that work. They conducted the previous monitoring effort and biomass estimation. They have prepared a quote to cover what will be needed for this stream removal effort. The full quote is included in the packet. The temporary barrier will need to be in place when the carp move this spring. Therefore, VLAWMO staff would like to bring this quote to the Board for the February meeting with a recommendation from the TEC to authorize this work. The stream removal has a not-to-exceed cost of \$20,088 for 2022.

Both of these carp efforts were anticipated and included in the 2022 budget for the Pleasant and West Vadnais subsheds.

Requested TEC action: VLAWMO staff request a recommendation by the TEC to the Board to authorize the quotes from Carp Solutions for \$6,220 for West Vadnais work and \$20,088 for Pleasant Lake work in 2022.

C. 319 grant/Wilkinson BMP project materials to Board

VLAWMO staff have been working closely with project partners and MPCA to prepare for the upcoming Wilkinson BMP project, as presented previously to TEC and Board.

Over the past months, the project easement (construction and maintenance) was completed and signed by NOC/NOF and the Minnesota Land Trust (MLT). MLT was included in the process because their conservation easement area is included in the planned project area. The draft easement is included in the TEC packet for reference. The document is marked as draft given the VLAWMO Board has not yet approved and signed the document. The easement is scheduled for consideration at the February Board meeting; the requested action will be for the Board to authorize signing and filing of the easement.

The MPCA has prepared the 319 grant contract for the Wilkinson BMP project, as described previously and presented to the TEC and Board in prep as the authorized grant workplan and budget. The MPCA 319 grant contract will be brought to the Board consideration also at the February meeting.

Continued work with Barr Engineering is underway to conduct site sampling and further inform the design process. Site investigation and coordination with USFWS was completed during fall 2021 regarding possible accommodations needed for nesting bald eagles in the general project area. USFWS has approved the project location and requested increased eagle monitoring during construction. A memo was prepared by Barr Engineering to describe and document the process. This will be included in the February Board packet.

A letter to TMDL responsible parties that contribute stormwater to the project area is in prep by VLAWMO staff and will be presented in the February Board packet. The letter provides a follow-up invitation to the initial inquiry about possible interest cash match support by contributing TMDL responsible parties and provides an invitation to open a discussion with MPCA about how load-reduction credits for MS4s generated by this project could be handled and distributed.

Requested TEC action: VLAWMO staff request a recommendation by the TEC to the Board to authorize signing and filing the project easement and authorize the MPCA contract. TEC members have reviewed and supported the 319 project workplan and budget that form the basis of the terms of the grant contract with MPCA and are consistent with responsibilities assumed by VLAWMO under the small priority watershed designation and accompanying 319 program with MPCA and EPA.

D. MDA invasive species grant awarded

On January 24, 2022, VLAWMO staff were delighted to be informed of the successful grant application with MDA for buckthorn removal at the City Hall wooded wetland. The grant will provide \$5,000 toward sentence-to-serve crew time during the spring

buckthorn removal time (March/April). VLAWMO staff are renewing the sentence-to-serve contract and working to schedule crew time in advance. Partnership with Vadnais Heights Public Works is very much appreciated in helping to make these efforts successful.

E. DNR invasive species treatment grant in prep (partnership with BLID)

MN DNR has opened the 2022 round of invasive species treatment grants. These grants are available to treat Curly-leaf pondweed, Eurasian watermilfoil, and Flowering rush. MN DNR also added grants only available to lake associations during 2022 for the same species and also Starry stonewort and Yellow iris. This is exciting because VLAWMO has been working on mechanical removal of Yellow iris on Deep Lake for the past 2 years and is working with Natural Shores for chemical treatment of Yellow iris on Deep Lake during 2022. Funds may be available in the future to help support these efforts.

VLAWMO staff have been coordinating with BLID on the current round application to treat Eurasian watermilfoil in Birch Lake using the delineation conducted for VLAWMO by RCSWCD in 2019. Treatment would be for 11.4 infested acres. The grant would provide \$1,800, if selected, of the estimated \$3,800 cost for the first year of treatment. The grant has an option to provide the same amount for a second year of treatment to increase effectiveness. VLAWMO staff are working with BLID to get the treatment permit and submit the grant application. Applications are due February 21, 2022. All complete applications will be put into a pool and randomly selected for funding.

F. Maintenance update: Iron-enhanced filter addition to Natural Shore Restorations, Inc. contract for 2022

VLAWMO staff requested that Natural Shore Restorations Inc. add filter maintenance of the iron-enhanced sand filter at 4th and Otter Lake Road, White Bear Lake, to their contract for 2022. They have already been managing the site, doing vegetation maintenance at the filter, and have the capacity to do the work. They will charge \$250 per visit, assuming monthly visits during the growing season, as needed in coordination with VLAWMO staff.

G. Great River Greening/Vadnais-Sucker Regional Park restoration maintenance JPA update

VLAWMO staff have been working closely with partners and legal counsel to prepare a maintenance JPA among VLAWMO, Ramsey County Parks, and St. Paul Regional Water Services. At this time, SPRWS has completed their review and approval of the JPA. Ramsey County is working to do the same and will sign when they have completed their review. At that point, the JPA will go back to SPRWS for signature before it comes back to VLAWMO for inclusion in packets to TEC and Board.

We appreciate our partners in helping to make this important 45-acre restoration project in Vadnais-Sucker Lake Regional Park and maintain it once the restoration has been completed by Great River Greening, with funding provided by Outdoor Heritage at a value of \$154,000.



800 County Road E East, Vadnais Heights, MN 55127

www.vlawmo.org; Office@vlawmo.org

H. Amelia survey reports in from RCSWCD (posted on VLAWMO website)

RCSWCD finished the report for bathymetry and macrophytes in Amelia Lake. Survey work was done during summer 2021. The [report is posted](#) and available on the VLAWMO website. We appreciate all of the work RCSWCD does to conduct and provide this important information.

Applicant Landowner Information

Name: Alison Keleher

Address of property where project will be implemented: 4775 Campbell Ave

City, State, Zip: White Bear Lake, MN 55110

Phone: 651-808-5475

Email address: everstray@q.com

Grant Specifics

ESTIMATED TOTAL COST OF YOUR PROJECT: \$897.75

AMOUNT OF GRANT REQUESTED: \$673.31

(\$750 MAXIMUM) (\$1,000 Maximum if within Targeted Priority Zone)

WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? Spring/Summer 2022

PROJECT TYPE:

Raingarden Native Restoration/ Turf Replacement Other
Pollinator Planting

If other, please describe proposed project:

Project Background

Describe your property: Does your property connect to a lake, stream, ditch, or wetland in VLAWMO? What is the purpose of your project?

My property is within the Targeted Volume Reduction Zone and drains to Lambert Creek. My purpose for wanting to pursue this project is to better manage the water runoff from my roof/gutters and to provide native options for pollinators while also beautifying my front yard.

Describe how your project will support the goals of the Soil Health Grant Program (see guidance page for more information). Does your proposed project directly reduce, capture, or treat stormwater?

My project will capture and filter stormwater runoff from my roof. By diverting it into a rain garden, it will nourish the native species I plan to plant, thereby providing new native habitat for pollinators.

Please briefly describe anticipated maintenance activities of your project:

I expect to do a lot of weeding, as with any garden. Watering during dry spells will of course be needed. I know the mulch will eventually deteriorate and need to be replaced. Plants may not thrive and may die off, thereby requiring to be replaced by other species that have survived in that location.

Project Specifications

In order to determine the water quality benefit of your project (amount of stormwater and pollutants captured), specific information is required for VLAWMO staff to perform the

calculations. If you are working with a professional landscaper, they should be able to provide you with this information.

TOTAL PROPERTY AREA (Acres): 0.17 acres

TOTAL PROJECT SIZE (SQ.FT.): Approximately 122 sq ft (irregular shape)

IMPERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): Approximately 365 sq ft

PERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): Approximately 632 sq ft

IF YOUR PROJECT **INCLUDES INFILTRATION**, PLEASE PROVIDE THE FOLLOWING INFORMATION

SOIL INFILTRATION RATE (INCHES/HR): 1.67"/hour

DEPTH OF RAINGARDEN BASIN (INCHES): 6"

Additional Required Attachments

To complete your application, please include:

- Detailed drawing or plan of the proposed project, drafted by either the landowner or a contractor.
- Detailed project budget estimate with clear cost and material breakouts that equate to your total project cost estimate.

****This information, along with the application, may be scanned and emailed to VLAWMO GIS Watershed Technician, Tyler Thompson (tyler.thompson@vlawmo.org)****

Opting in to the education incentives would allow reapplying for Soil Health Grant funds the consecutive year after being awarded grant funding. Incentives entail committing to three of the following four options for 2 years:

1. Documenting seasonal photos, organizing them, and sending them to VLAWMO via jump drive or email, to show the progress and growth of the project.
2. Provide a neighborhood spotlight article featuring a photo of participants posing in front of the project, as well as a mini-interview 1-2 years after the project was installed to speak to their experience in install, maintenance, any problems, and enjoyment for others to learn from.
3. Participate as a host site for VLAWMO's annual neighborhood BMP tour working in conjunction with VLAWMO Master Water Stewards.
4. Help coordinate VLAWMO's annual native plant swap with Master Water Stewards. This entails saving seeds, dividing and potting mature plants for sharing with other residents or public raingardens, or taking plants from the plant swap for the home project as needed.

VLAWMO Soil Health Grant Operations & Maintenance Requirements:

Projects must be maintained for a minimum of 5 years, and applicants must be willing to participate in VLAWMO's Education & Outreach and project sharing efforts. The applicant is responsible for Project maintenance items referenced in the Soil Health Grant Guidance document for a 5 year period, after Project completion. VLAWMO is not responsible for completing maintenance activities, but will assist with staff guidance. A project may be visited and inspected by VLAWMO staff during the 5 year maintenance period. Please inform VLAWMO if you move within the 5 years of project implementation so we may provide the new owners with information and guidance on the Project.

Are you willing to commit to the following Soil Health Grant requirements?

- **Maintain the project for at least 5 years after its implementation?** **YES** NO
- **Participate in VLAWMO's outreach and project sharing efforts?** **YES** NO
- **Do you understand that your Project may be visited and inspected by a VLAWMO representative during the 5 year Project maintenance period?** **YES** NO

Please print and sign below to indicate that the above information and attachments are accurate and complete, and constitute a complete and submitted grant application. If approved by the VLAWMO Technical Commission or Board, a VLAWMO staff signature will constitute an executed grant agreement between the grantee and the Vadnais Lake Area Water Management Organization (VLAWMO).

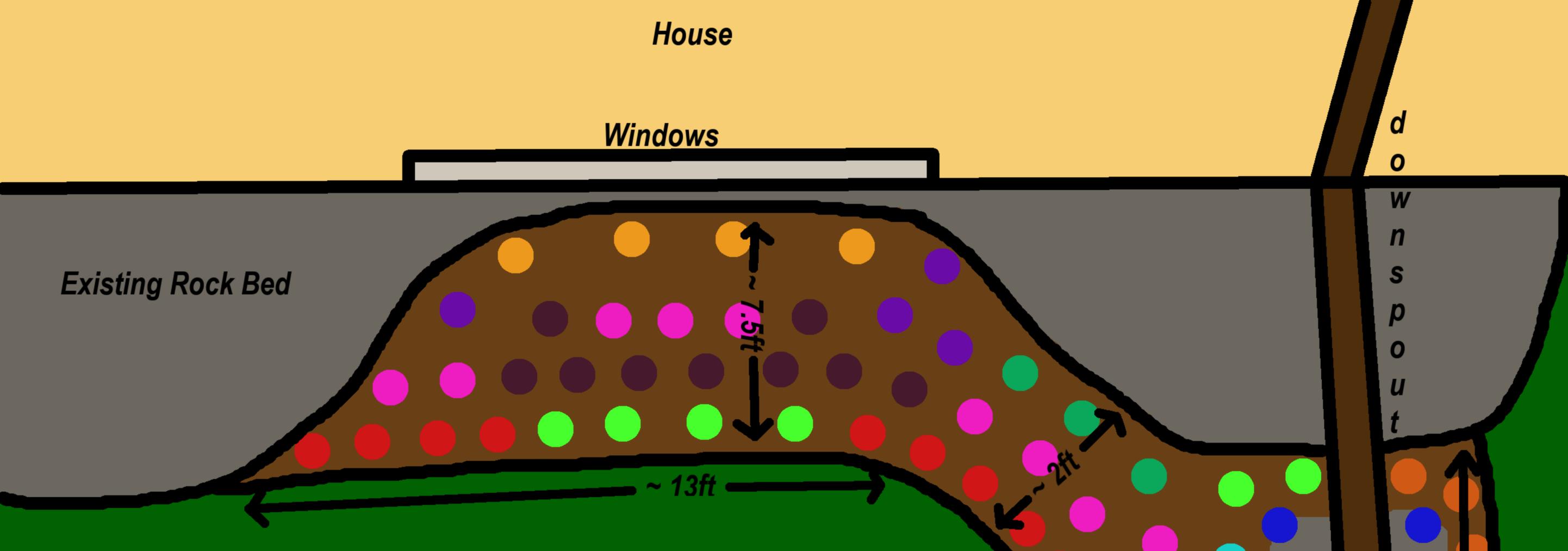
APPLICANT/GRANTEE

Print Name: Alison Keleher

Signature: Alison Keleher Date 01/01/2022

VLAWMO STAFF

Signature: _____ Date _____



- River Rock over Landscape Fabric*
- Mulch (2-3" deep)*
- Blueflag Iris*
- Turtlehead (White)*
- Wild Geranium*
- Wild Columbine*
- Large Flowered Bellwort*
- Hay-Scented Fern*
- Palm Sedge*
- Large-Leaved Aster*
- Compass Plant*
- New England Aster*
- Zig Zag Goldenrod*
- Basin Overflow*

<u>Item</u>	<u>Qty</u>	<u>Cost/ea</u>	<u>Total Cost</u>
Mulch (per bag)	20	6.00	120.00
2 1/2" river rock (per cubic yard)	1.5	64.99	97.49
Landscape fabric (per 5'x20' roll)	1	23.99	23.99
Blueflag Iris	7	8.99	62.93
Turtlehead (White)	5	8.99	44.95
Palm Sedge	9	8.99	80.91
Hay-Scented Fern	9	8.99	80.91
Large Flowered Bellwort	7	8.99	62.93
Zig Zag Goldenrod	3	8.99	26.97
Wild Columbine	9	8.99	80.91
Large-Leaved Aster	9	8.99	80.91
Wild Geranium	7	8.99	62.93
New England Aster	4	8.99	35.96
Compass Plant	4	8.99	35.96
			\$897.75

Notes/Reference	Height	Spacing
Fleet Farm?	n/a	n/a
https://www.gertens.com/river-rock-2-1-2-8595.html	n/a	n/a
https://www.amazon.com/AGTEK-Landscape-Fabric-Heavy-Ground/dp/B07P8Z4VN8/?th=1	n/a	n/a
Landscape Alternatives, #1 pot	24-36"	18-24"
Landscape Alternatives, #1 pot	24-36"	18-30"
Landscape Alternatives, #1 pot	24-36"	12"
Landscape Alternatives, #1 pot	12-24"	24-36"
Landscape Alternatives, #1 pot	12-24"	18"
Landscape Alternatives, #1 pot	24-36"	12-18"
Landscape Alternatives, #1 pot	6-36"	12-18"
Landscape Alternatives, #1 pot	12-48"	12"
Landscape Alternatives, #1 pot	24"	20"
Landscape Alternatives, #1 pot	up to 72"	12-36"
Landscape Alternatives, #1 pot	up to 96"	24-36"

Bloom Time	Bloom Color	LightRequirements	WaterRequirements
n/a	Brown/Natural	n/a	n/a
n/a	Mixed	n/a	n/a
n/a	Black	n/a	n/a
May-July	Blue	Full Sun / Part Shade	Wet
Late Summer / Fall	White	Full Sun	Wet
n/a	Green	Sun / Shade	Slightly Moist
n/a	Green	Part Shade / Full Shade	Slightly Moist
April-June	Yellow	Part Shade / Full Shade	Slightly Moist
August-October	Yellow	Full Sun / Part Shade	Medium
May-June	Red	Full Sun / Part Shade	Slightly Moist
July-October	Periwinkle	Part Shade / Full Shade	Medium
Late Spring / Early Summer	Periwinkle	Full Sun / Part Shade	Moist
August-September	Purple	Full Sun	Medium
Mid Summer	Yellow	Full Sun	Slightly Dry

Applicant Landowner Information

Name:	<i>Katherine L. Doll Kanne</i>
Address of property where project will be implemented:	<i>3696 Edgerton St.</i>
City, State, Zip:	<i>Vadnais Heights, MN 55127</i>
Phone:	<i>320-905-3606</i>
Email address:	<i>dollkanne@gmail.com</i>

Grant Specifics

ESTIMATED TOTAL COST OF YOUR PROJECT: \$ *390.00* AMOUNT OF GRANT REQUESTED: (\$750 MAXIMUM) \$ *292.50*
(\$1,000 Maximum if within Targeted Priority Zone)

WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? _____

PROJECT TYPE:

Raingarden Native Restoration/Pollinator Planting Turf Replacement Other

If other, please describe proposed project: _____

Project Background

Describe your property: Does your property connect to a lake, stream, ditch, or wetland in VLAWMO? What is the purpose of your project?

Subject property, and area targeted for project is along a wood's edge. The wood's edge slopes steeply downward to Lambert Creek.

Describe how your project will support the goals of the Soil Health Grant Program (see guidance page for more information). Does your proposed project directly reduce, capture, or treat stormwater?

The project will enhance native habitat with native grasses and flowers nearby the wood's leading into Lambert Creek. The project is another stage of a plan to restore/replace turf in an area that runs off into the creek.

Please briefly describe anticipated maintenance activities of your project:

The project will need watering in first year and weeding for at least 3 years until plants are well established. Occasional weeding and plant replacement is expected after that.

Project Specifications

In order to determine the water quality benefit of your project (amount of stormwater and pollutants captured), specific information is required for VLAWMO staff to perform the calculations. If you are working with a professional landscaper, they should be able to provide you with this information.

TOTAL PROPERTY AREA
(Acres):

0.6 acres

TOTAL PROJECT
SIZE (SQ.FT.):

220 sq ft

IMPERVIOUS AREA
DRAINING TO PROJECT
(SQ.FT.):

0 sq ft.

PERVIOUS AREA
DRAINING TO
PROJECT (SQ.FT.):

None reasonably expected
as most uphill has plantings in place.

IF YOUR PROJECT INCLUDES INFILTRATION, PLEASE PROVIDE THE FOLLOWING INFORMATION

SOIL INFILTRATION

RATE (INCHES/HR): N/A

DEPTH OF RAINGARDEN BASIN

(INCHES): N/A

Additional Required Attachments

To complete your application, please include:

- Detailed drawing or plan of the proposed project, drafted by either the landowner or a contractor.
- Detailed project budget estimate with clear cost and material breakouts that equate to your total project cost estimate.

This information, along with the application, may be scanned and emailed to VLAWMO GIS Watershed Technician, Tyler Thompson (tyler.thompson@vlawmo.org)

Opting in to the education incentives would allow reapplying for Soil Health Grant funds the consecutive year after being awarded grant funding. Incentives entail committing to three of the following four options for 2 years:

1. Documenting seasonal photos, organizing them, and sending them to VLAWMO via jump drive or email, to show the progress and growth of the project.
2. Provide a neighborhood spotlight article featuring a photo of participants posing in front of the project, as well as a mini-interview 1-2 years after the project was installed to speak to their experience in install, maintenance, any problems, and enjoyment for others to learn from.
3. Participate as a host site for VLAWMO's annual neighborhood BMP tour working in conjunction with VLAWMO Master Water Stewards.
4. Help coordinate VLAWMO's annual native plant swap with Master Water Stewards. This entails saving seeds, dividing and potting mature plants for sharing with other residents or public raingardens, or taking plants from the plant swap for the home project as needed.

Projects must be maintained for a minimum of 5 years, and applicants must be willing to participate in VLAWMO's Education & Outreach and project sharing efforts. The applicant is responsible for Project maintenance items referenced in the Soil Health Grant Guidance document for a 5 year period, after Project completion. VLAWMO is not responsible for completing maintenance activities, but will assist with staff guidance. A project may be visited and inspected by VLAWMO staff during the 5 year maintenance period. Please inform VLAWMO if you move within the 5 years of project implementation so we may provide the new owners with information and guidance on the Project.

Are you willing to commit to the following Soil Health Grant requirements?

- **Maintain the project for at least 5 years after its implementation?** YES NO
- **Participate in VLAWMO's outreach and project sharing efforts?** YES NO
- **Do you understand that your Project may be visited and inspected by a VLAWMO representative during the 5 year Project maintenance period?** YES NO

Please print and sign below to indicate that the above information and attachments are accurate and complete, and constitute a complete and submitted grant application. If approved by the VLAWMO Technical Commission or Board, a VLAWMO staff signature will constitute an executed grant agreement between the grantee and the Vadnais Lake Area Water Management Organization (VLAWMO).

APPLICANT/GRANTEE

Print Name Katherine Doll Kanne

Signature Katherine Doll Kanne Date January 23, 2022

VLAWMO STAFF

Signature _____ Date _____

2022 Kanne Soil Health Grant Application

January 18th, 2022

The Kanne family is submitting a 2022 application for a VLAWMO Soil Health Grant. The subject property is located in VLAWMO's Target Volume Reduction Zone (TVRZ) at 3696 Edgerton St, Vadnais Heights, MN 55127.

We are proposing to enhance native habit by planting native flowers and grasses near the northern property edge where turf grass transitions into a tree-covered slope down towards Ditch 14/Lambert Creek. The proposed planting location is at the top of a slope and receives mostly full sun with the exception of the area right near the tree line.

This proposed Soil Health Grant project is the next stage of a multi-year plan to enhance this location nearby Lambert Creek to provide habit for wildlife and pollinators and also enhance water quality. Last year, the Kanne family utilized a Soil Health Grant to replace front yard turf with native flowers and grasses; this prior grant location is approximately 30 feet from the proposed location of this application.

Site Preparations Completed Prior to Application

Last fall, two mature trees in this area were removed in addition to some tree trimming in order to allow more sunlight penetration to the proposed area. The proposed area extends a bit into a previously "naturalized" wood's edge. Several small to medium-sized buckthorn trees were removed from this area in Fall 2019. Since 2019, garlic mustard and other undesirable vegetation such as mugwort and burdock are being monitored and controlled via mechanical means. In late summer to fall of 2021, the area was weeded of known invasives and then the remaining growth was mowed down short, and heavily mulched with arborist chips in fall 2021. The images below in **Figure 1** show the current state of the proposed site for this grant when looking towards the West and the East.



The proposed area is approximately 220 square feet (= 20 feet long by 11 feet wide). A stepping stone walking path was placed to define a pathway in the middle of the proposed planting area and maintain an area to allow passage and planting maintenance. The proposed planting area is relatively flat with a gentle slope downward towards the mature trees. The site receives full to partial sun due to southern sun exposure. The soil moisture conditions are considered medium to dry.

Project Proposal

Our proposal is for 2.5"-3.5" potted plants every 12" in order to help establish ground cover in this area. The proposed plants are native to Minnesota and were selected based on site light and soil conditions. In addition, since deer are known to pass through this area frequently, all of the selected plant species are categorized as "deer resistant" (but nothing is deer proof to a truly hungry deer). Approximately 220 native plants will be sourced to complete this project. The proposed plants will be sourced from Glacial Ridge Growers (Glenwood, Minnesota). Orders from this supplier qualify for wholesale pricing if 8 or more flats are purchased (flats are trays of 18 plants of a single species). The proposed plant order would qualify for wholesale pricing.

Per a phone discussion on December 28th with the nursery staff of Glacial Ridge Growers, the supplier would be able to accommodate the below order at the defined cost:

Common Name	Species Name	Type	Light Preference	Soil Preference	Height	Bloom Time	Flat Quantity	Total Cost
Geranium	<i>Geranium maculatum</i>	Forb	F, P, S	M, MD	1'	A,M,J,J	2 flats (36 plants)	\$65.00
Prairie Smoke	<i>Geum triflorum</i>	Forb	F, P	MW, M, MD, D	8"	A,M,J	1 flat (18 plants)	\$32.50
Harebell	<i>Campanula rotundifolia</i>	Forb	F, P	MD, D	12"	J,J,A,S	1 flat (18 plants)	\$32.50
Ohio Spiderwort	<i>Tradescantia ohioensis</i>	Forb	F, P	MW, M, MD, D	3'	M,J,J	2 flats (36 plants)	\$65.00
Prairie Coreopsis	<i>Coreopsis palmata</i>	Forb	F, P	M, MD, D	2'	J,J,A	1 flat (18 plants)	\$32.50
Pearly Everlasting	<i>Anaphalis margaritacea</i>	Forb	F, P	MD, D	2'	J,J,A,S	2 flats (36 plants)	\$65.00
Hoary Vervain	<i>Verbena stricta</i>	Forb	F, P	MD, D	2'	J,J,A,S	1 flat (18 plants)	\$32.50
Showy Milkweed	<i>Asclepias speciosa</i>	Forb	F	M, MD, D	4'	J,J,A	1 flat (18 plants)	\$32.50
Pennsylvania Sedge/Common Oak Sedge	<i>Carex pensylvanica</i>	Sedge	F, P, S	M, MD, D	8"	A,M,J	1 flat (18 plants)	\$32.50

Light Preference: F = Full Sun, P = Partial Sun, S = Shade

Soil Preference: MW = Medium wet, M = Medium, MD = Medium Dry, D = Dry

Total Plants = 216 (12 flats x 18 plants/flat from Glacial Ridge Growers)

Total Project Cost = \$390.00 (requesting reimbursement of \$292.50)

Planting Plan:

The plants are expected to be provided by the supplier in late April to early May. Planting will commence in mid- to late-May. The plants will be provided at least 1 inch of water per week for the first growing season. We also plan to grow native grasses from seed to add additional grasses into this planting. These grasses would include Little Bluestem and Sideoats Grama, both of which we have had success growing in the past. These grasses would be started in Spring, and added throughout this planting in the Fall. There is no proposed cost for adding these two native grasses into this planting area. Lastly, additional mulch will be sourced if needed but is not included in the cost of the grant proposal.

VLAWMO LANDSCAPE LEVEL 1 GRANT APPLICATION FORM



Vadnais Lake Area Water Management
Organization 800 County Road E East
Vadnais Heights, MN 55127
www.vlawmo.org (651) 204-6071

Please submit form and required materials
to: TYLER THOMPSON
tyler.thompson@vlawmo.org

Please fill in the application as best as possible and use additional pages if necessary. Refer to the Grant Guidance document for further information or contact Tyler Thompson with any questions.

APPLICANT INFORMATION

NAME: _____ DATE: _____

ADDRESS: _____ CITY: _____ ZIP: _____

PHONE: _____ EMAIL: _____

PROJECT SUMMARY

ESTIMATED TOTAL COST OF YOUR PROJECT: \$ _____ AMOUNT OF GRANT REQUESTED: (\$5,000 MAXIMUM) \$ _____

WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? _____

TYPE OF PROJECT THAT WILL BE COMPLETED:

Raingarden/ Infiltration Basin Shoreline Restoration Hard Surface Runoff Reduction Other

If other, please describe proposed project: _____

PROJECT BACKGROUND

Describe your property: Does your property connect to a lake, stream, ditch, or wetland in VLAWMO? What issues are you planning to address with your project?

Describe how your project will support the goals of the Landscape Grant Program (see guidance materials for more information). Does your proposed project directly reduce, capture, or treat stormwater?

Please briefly describe anticipated maintenance activities of your project.

PROJECT SPECIFICATIONS

In order to determine the water quality benefit of your project (amount of stormwater and pollutants captured), specific information is required for VLAWMO staff to perform the calculations. If you are working with a professional landscaper, they should be able to provide you with this information.

TOTAL PROPERTY AREA (Acres): _____	TOTAL PROJECT SIZE (SQ.FT.): _____
IMPERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): _____	PERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): _____

IF YOUR PROJECT **INCLUDES INFILTRATION**, PLEASE PROVIDE THE FOLLOWING INFORMATION

SOIL INFILTRATION RATE (INCHES/HR): _____	DEPTH OF RAINGARDEN BASIN (INCHES): _____
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ADDITIONAL REQUIRED ATTACHMENTS

TO COMPLETE YOUR APPLICATION, PLEASE INCLUDE:

- Detailed drawing or plan set of the proposed project, drafted by either the landowner or a contractor. Dependent upon the complexity of the project, VLAWMO may require project final designs be completed by a qualifying professional or Engineer. Drawing must include project dimensions that enable VLAWMO staff to model the project for water quality benefits or stormwater reductions.
- Detailed project budget estimate with clear cost and material breakouts that equate to your total project cost estimate. Please review the VLAWMO Landscape Level 1 Cost Share Guidance document for eligible project materials that are applicable for grant funding.

****This information, along with the application, may be scanned and emailed to Tyler Thompson, VLAWMO GIS Watershed Technician at tyler.thompson@vlawmo.org****



Charpenter Rain Garden

Justin Charpenter

Email Jcharpenter@gmail.com

Phone number 612-581-2404

785 North Oak Drive
Vadnais Heights, MN 55127

Project size 0
Prepared By Tony Rieger-Borer
Date 7/26/2021

#	Category	Description	Price/Unit	Unit	Quantity	Total Price	
1	Spray	Herbicide treatment to kill existing turf	\$ 350.00	LS	1.00	\$ 350.00	
2	Install	Excavation and grading to set Rain garden and install its components.	\$ 3,100.00	LS	1.00	\$ 3,100.00	
3	Compost	Compost to amend the native sand for added fertility and aeration.	\$ 65.00	CY	4.50	\$ 292.50	
4	Hardwood Mulch	3" of Twice Shredded Hardwood Mulch	\$ 65.00	CY	7.00	\$ 455.00	
5	Steel Edging	Steel edging to surround the entire garden	\$ 8.00	LF	120.00	\$ 960.00	
6	Live Plants	Various species of native grasses and wildflowers	\$ 5.00	Each	360.00	\$ 1,800.00	
7	Rock overflow	2" to 6" rock used to soften flow from garden to culvert.	\$ 300.00	LS	1.00	\$ 300.00	
8	Grow in Management Services					Subtotal	\$ 7,257.50
9	2022- Grow-in Management	Spot treating weeds	\$ 315.00	Visit	3.00	\$ 945.00	
10	2023- Grow-in Management	Spot treating weeds	\$ 315.00	Visit	2.00	\$ 630.00	
11	2024- Grow-in Management	Spot treating weeds	\$ 315.00	Visit	2.00	\$ 630.00	
						Project Price	\$ 9,462.50

Contract Information:

If you wish to contract MNL for these services, please return one signed copy of this agreement to:

Minnesota Native Landscapes, Inc. (MNL) 8740 77th St NE, Otsego MN 55362 or
Email: tony.riegerborer@MNLcorp.com
Cell: 612-791-8744

Notes:

- Quote assumes MNL completing all steps as listed above. If the scope changes, MNL reserves the right to alter the bid and resubmit.
- All herbicide applications will be conducted by Minnesota Department of Agriculture licensed applicator(s).
- MNL does not warranty against acts of vandalism, severe drought, flooding, washouts, or damages caused by wildlife.
- This quote is good for a period of 30 days.
- All work will be billed following completion, with payment being due within 30 days of receipt of invoice. *Any amount remaining unpaid beyond 30 days shall incur a 1½% monthly finance charge.*

Submitted By:

Tony Rieger-Borer
Tony Rieger-Borer

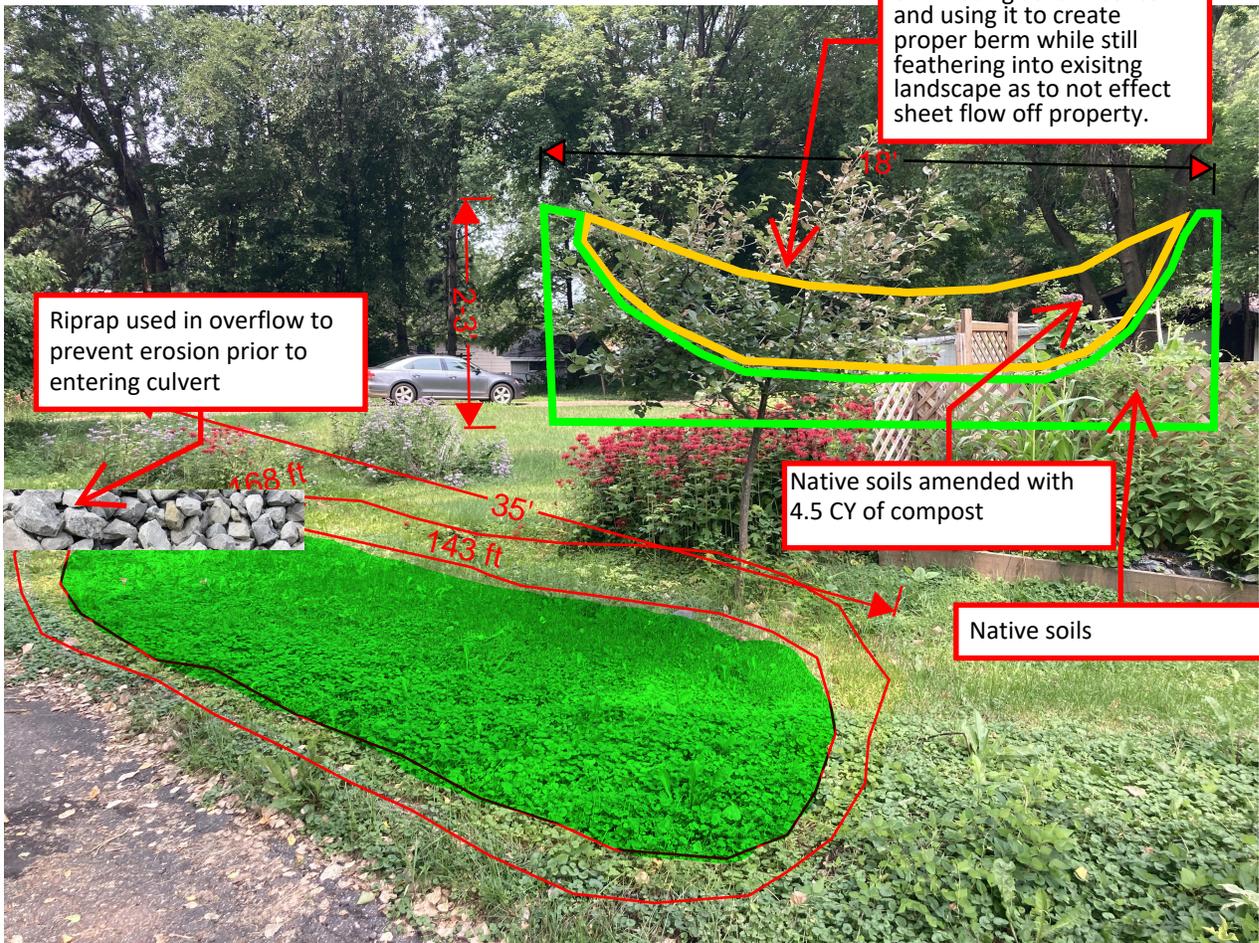
To accept this quote sign here:

Sign **Date**

Print Name

MNL requires a sign-off by client upon completion of work and before crews demobilize. If client request changes, after signature verifying completion, further work will be billed on a time and material basis.

Client Signature – Verifying project completion _____ Date _____



Project Information

Calculator Version:	Version 3: January 2017
Project Name:	Charpenter Open Ditch Rain Garden
User Name / Company Name:	VLAWMO
Date:	1/20/22
Project Description:	Rain garden infiltration basin retrofitted into open ditch drainage culvert system of North Oak Drive in Vadnais Heights, primarily taking drainage from property numbers 785, 797, and 807, as well as a portion of North Oak Drive.
Construction Permit?:	No

Site Information

Retention Requirement (inches):	1.1
Site's Zip Code:	55127
Annual Rainfall (inches):	31.8
Phosphorus EMC (mg/l):	0.3
TSS EMC (mg/l):	54.5

Total Site Area

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land	4.06				4.06
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed	1.29				1.29
			Impervious Area (acres)		1.29
			Total Area (acres)		6.64

Site Areas Routed to BMPs

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land	0.51				0.51
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed	0.51				0.51
			Impervious Area (acres)		0.3
			Total Area (acres)		1.32

Summary Information

Performance Goal Requirement

Performance goal volume retention requirement:	5151	ft ³
Volume removed by BMPs towards performance goal:	154	ft ³
Percent volume removed towards performance goal	3	%

Annual Volume and Pollutant Load Reductions

Post development annual runoff volume	3.578	acre-ft
Annual runoff volume removed by BMPs:	0.4393	acre-ft
Percent annual runoff volume removed:	12	%

Post development annual particulate P load:	1.606	lbs
Annual particulate P removed by BMPs:	0.197	lbs
Post development annual dissolved P load:	1.314	lbs
Annual dissolved P removed by BMPs:	0.161	lbs
Percent annual total phosphorus removed:	12	%

Post development annual TSS load:	530.4	lbs
Annual TSS removed by BMPs:	65.1	lbs
Percent annual TSS removed:	12	%

BMP Summary

Performance Goal Summary

BMP Name	BMP Volume Capacity (ft ³)	Volume Received (ft ³)	Volume Retained (ft ³)	Volume Outflow (ft ³)	Percent Retained (%)
Charpenter Ditch Rain Garden	154	1198	154	1044	13

Annual Volume Summary

BMP Name	Volume From Direct Watershed (acre-ft)	Volume From Upstream BMPs (acre-ft)	Volume Retained (acre-ft)	Volume outflow (acre-ft)	Percent Retained (%)
Charpenter Ditch Rain Garden	0.8865	0	0.4393	0.4472	50

Particulate Phosphorus Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
Charpenter Ditch Rain Garden	0.3979	0	0.1972	0.2007	50

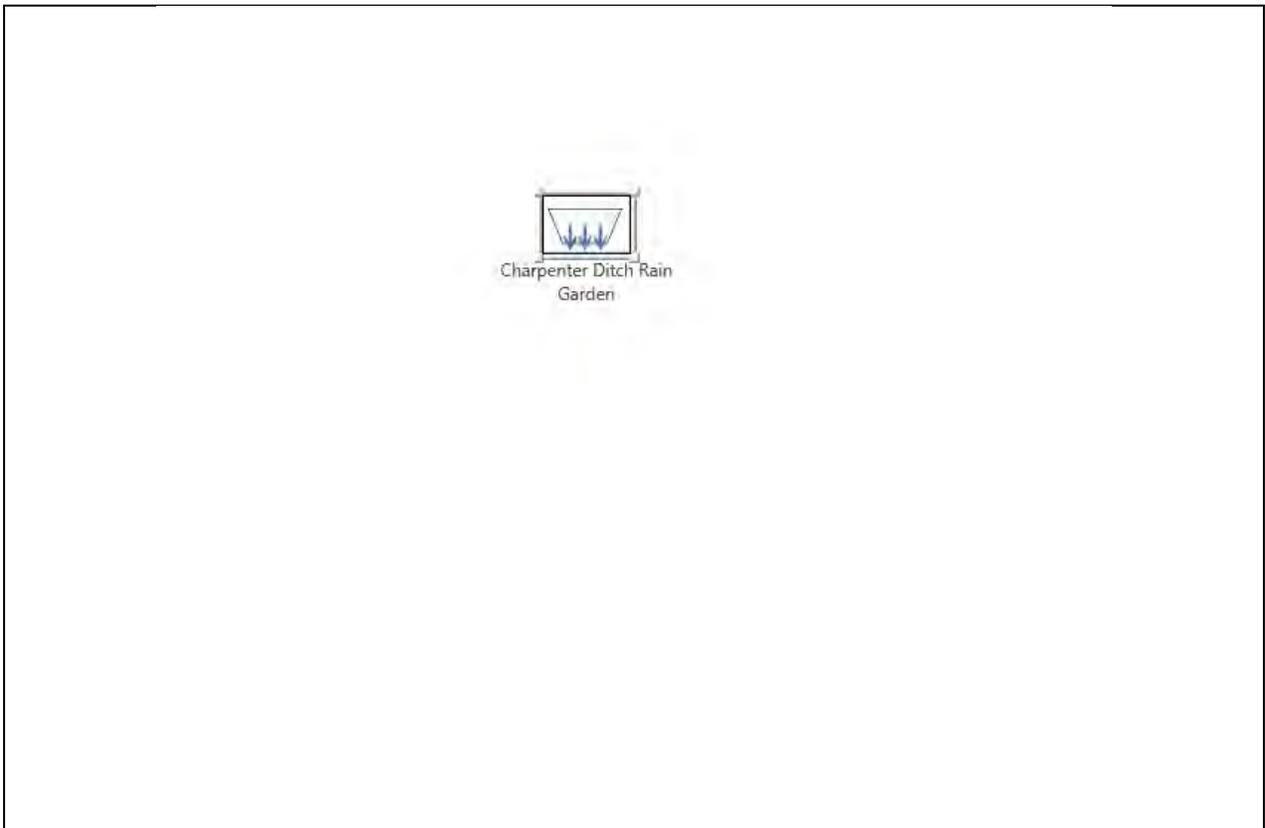
Dissolved Phosphorus Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
Charpenter Ditch Rain Garden	0.3255	0	0.1613	0.1642	50

TSS Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
Charpenter Ditch Rain Garden	131.42	0	65.12	66.3	50

BMP Schematic



VLAWMO LANDSCAPE LEVEL 1 GRANT APPLICATION FORM

Vadnais Lake Area Water Management
 Organization 800 County Road E East
 Vadnais Heights, MN 55127
 www.vlawmo.org (651) 204-6071

Please submit form and required materials
 to: TYLER THOMPSON
tyler.thompson@vlawmo.org

Please fill in the application as best as possible and use additional pages if necessary. Refer to the Grant Guidance document for further information or contact Tyler Thompson with any questions.

APPLICANT INFORMATION

NAME: Birch Lake Ponds Homeowners Association DATE: 1/31/22 TT 1/31/22

ADDRESS: 1197 Pond View Lane CITY: White Bear Township ZIP: 55110

PHONE: 651-335-7042 EMAIL: blphoa.jimb@gmail.com

PROJECT SUMMARY

ESTIMATED TOTAL COST OF YOUR PROJECT: \$ 3494 Phase 1 AMOUNT OF GRANT REQUESTED: \$ 1747 Phase 1
 (\$5,000 MAXIMUM)
 (Cost breakdown: NWI \$809; MNDOC \$850; Landbridge \$1835)

WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? 2022-2024

TYPE OF PROJECT THAT WILL BE COMPLETED:

Raingarden/ Infiltration Basin Shoreline Restoration Hard Surface Runoff Reduction Other

If other, please describe proposed project:

PROJECT BACKGROUND

Describe your property: Does your property connect to a lake, stream, ditch, or wetland in VLAWMO? What issues are you planning to address with your project?

The SE property boundary borders Lambert Creek at the east end of Pond View Lane in White Bear Township. This project will address the following: repairing existing erosion sources; removal of trees and tree limbs that have already fallen on the stream banks or are projected to imminently fall into the creek and impede the water flow; and removal of buckthorn and other invasive plants bordering the creek, with ultimate replacement of creekside-friendly plants. See enclosed pictures.

Describe how your project will support the goals of the Landscape Grant Program (see guidance materials for more information). Does your proposed project directly reduce, capture, or treat stormwater?

Phase 1, early 2022: Clear fallen limbs and trees from Lambert Creek and both sides of the adjacent shoreline, then cut and remove trees that are overhanging creek to reduce the shade which blocks growth of shoreline-friendly plants. After clearing, remediate the creekside on BLP property from the walkway culvert to approximately 20 ft north of that culvert, fixing the erosion points to minimize sediment flow into the creek and adding desirable plants which will resist soil erosion. Phase 2, 2023 remediate the remaining creekside on BLP property from the walkway culvert to approximately 50 ft north of that culvert where the storm drain empties into Lambert Creek, fixing erosion points to minimize sediment flow into the creek and adding desirable native plants which will resist soil erosion. Phase 3 projected for 2024 the goal is to remediate the creekside on BLP property from the walkway culvert to approximately 75 ft south of that culvert, fixing the erosion points to minimize sediment flow into the creek and adding desirable native plants which will resist soil erosion.

BirchLakePondsProposed Work Plan

PROJECT METHODS

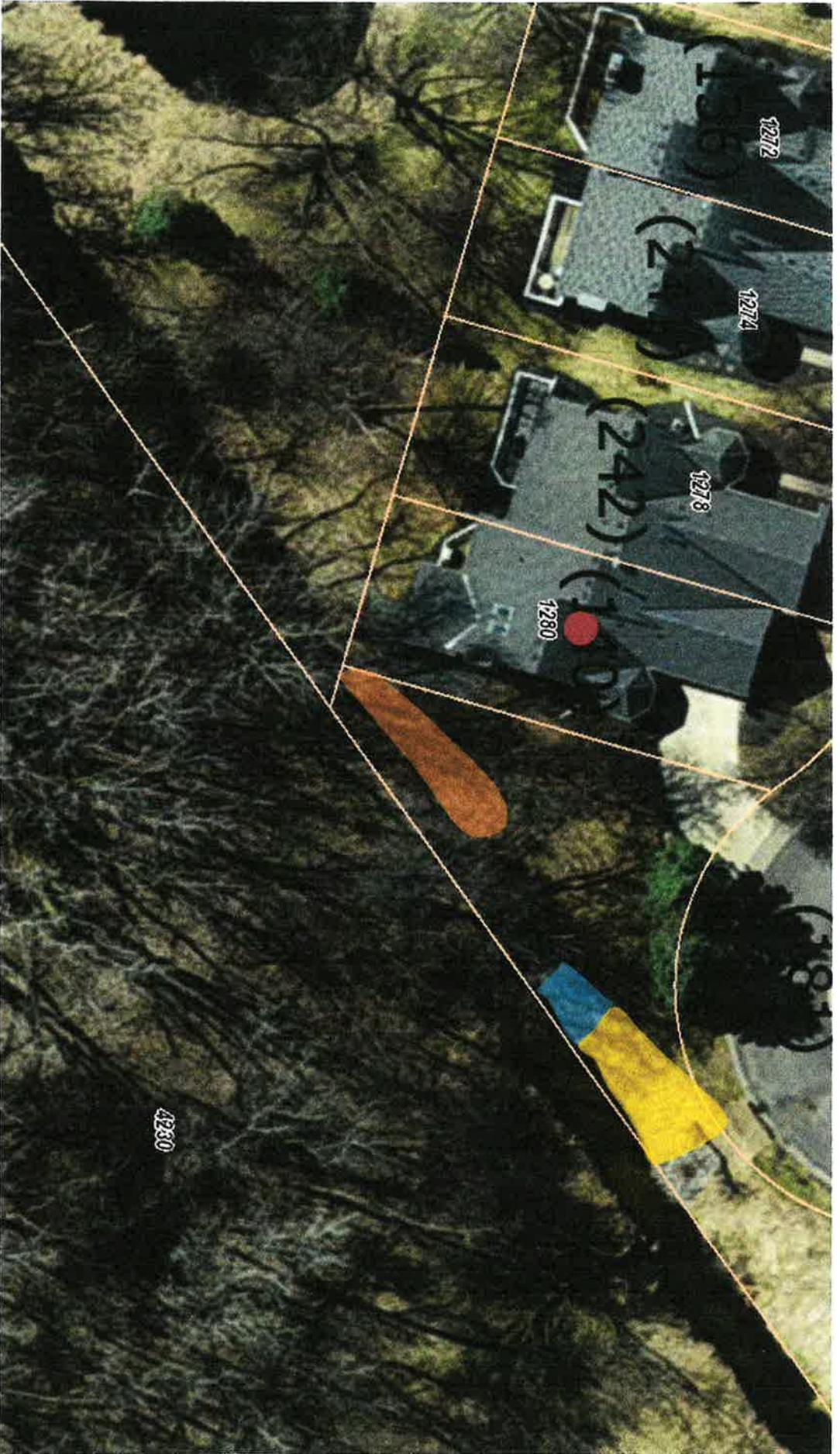
The proposed seeding area for the project will be an approximate 10' wide buffer along the north side of Lambert creek designed to reduce erosion, take up water during inundation periods after rain events and provide lowered maintenance and control of undesirable species such as reed canary grass and invasive cattails while providing a sustainable habitat for pollinators and other invertebrates. This native buffer will also reduce the inputs needed to maintain the current landscape and provide a soft edge on the edge of the property. This buffer will also help to filter runoff into Lambert Creek that feeds the larger Vandais Lake Watershed.

All areas of the project will be treated with appropriate herbicides to reduce competition prior to the native seeding. A mixture of grasses and flowers will be seeded with an option to increase diversity utilizing plant material. Erosion control measures will be taken to prevent soil movement before germination. These measures will include natural net straw erosion control blanket and the use of biolog to reduce the undercutting of the stream bank in areas. This project would be installed in the spring of 2022 and all site preparation and timing will be taken into consideration as well to ensure of a successful planting.

Follow up management pricing is listed and encouraged to ensure successful germination of the planting area as well as controlling the invasive species currently on site.



Birch Lake Ponds Project Plan



Phase 1 Restoration- approx. 150 sf

Phase 2 Restoration- approx. 450 sf

Phase 3 Restoration- approx. 350 sf

Birch Lake Ponds Cost Estimate

Cost Estimate

Item #	Item Description	Unit	Est Qty	Unit Price	Total Price
BASE BID					
Phase 1 Restoration					
1	Project Set up and Mobilization	LS	1	\$ 150.00	\$ 150.00
2	Herbicide application	EA	2	\$ 165.00	\$ 330.00
3	Soil Preparation	SF	150	\$ 2.54	\$ 381.00
4	Erosion Control	SY	18	\$ 19.00	\$ 342.00
5	Seed and Seeding - Shooting Star's Wet Pollinator Mix	SF	150	\$ 1.50	\$ 225.00
6	Native Plant Enhancements- Upland	EA	30	\$ 6.25	\$ 187.50
7	Native Plant Enhancements- Emergent	EA	24	\$ 9.13	\$ 219.12
				Phase 1 Total	\$1,834.62
Phase 2 Restoration					
8	Project Set up and Mobilization	LS	1	\$ 150.00	\$ 150.00
9	Herbicide application	EA	2	\$ 165.00	\$ 330.00
10	Soil Preparation	SF	450	\$ 1.02	\$ 459.00
11	Erosion Control	SY	55	\$ 4.26	\$ 234.30
12	Seed and Seeding - Shooting Star's Wet Pollinator Mix	SF	450	\$ 0.50	\$ 225.00
13	Native Plant Enhancements- Upland	EA	108	\$ 6.25	\$ 675.00
14	Native Plant Enhancements- Emergent	EA	48	\$ 9.13	\$ 438.24
				Phase 2 Total	\$2,511.54
Phase 3 Restoration					
15	Project Set up and Mobilization	LS	1	\$ 150.00	\$ 150.00
16	Herbicide application	EA	2	\$ 165.00	\$ 330.00
17	Soil Preparation	SF	350	\$ 1.30	\$ 455.00
18	Erosion Control	SY	45	\$ 5.20	\$ 234.00
19	Seed and Seeding - Shooting Star's Wet Pollinator Mix	SF	350	\$ 0.65	\$ 227.50
20	Native Plant Enhancements- Upland	EA	72	\$ 6.25	\$ 450.00
21	Native Plant Enhancements- Emergent	EA	48	\$ 9.13	\$ 438.24
				Phase 3 Total	\$2,284.74
				TOTAL BASE BID:	\$ 6,630.90

Pricing is based on treating areas as three separate projects. This project could be done more efficiently as one single project, if the decision is made to go that route we would grant a 15% savings.

Contract

Land Management Estimate					
1	IPM Establishment Year 1	EA	3	\$ 216.67	\$ 650.01
2	IPM Year 2	EA	3	\$ 217.50	\$ 652.50
3	IPM Year 3	EA	3	\$ 218.34	\$ 655.02

*Land Management costs are provided as reference and are not included with the above installation costs unless requested. Land Management is assessed and quote provided on a yearly basis. Invoicing occurs following completion of site visits.



Birch Lake Ponds Seed and Plants

Seeds Species	Scientific Name	% of mix	Oz	Seeds/Sqft	Seeds Species	Scientific Name	% of mix	Oz	Seeds/Sqft
Grasses					Forbs				
Big Bluestem	<i>Andropogon gerardii</i>	12.00%	4.4	1.20 PLS lb	Canada Anemone	<i>Anemone canadensis</i>	0.20%	0.1	0.02 PLS lb
Fringed Brome	<i>Bromus ciliatus</i>	8.00%	2.9	0.80 PLS lb	Swamp Milkweed	<i>Asclepias incarnata</i>	3.00%	0.5	0.30 PLS lb
Virginia Wild Rye	<i>Elymus virginicus</i>	20.00%	3.1	2.00 PLS lb	New England Aster	<i>Aster novae-angliae</i>	0.60%	1.5	0.06 PLS lb
American Manne Grass	<i>Glyceria grandis</i>	1.00%	2.6	0.10 PLS lb	Showy Tick Trefoil	<i>Desmodium canadense</i>	1.20%	0.2	0.12 PLS lb
Switchgrass	<i>Panicum virgatum</i>	4.00%	2.1	0.40 PLS lb	Joe Pye Weed	<i>Eupatorium maculatum</i>	0.40%	1.4	0.04 PLS lb
Fowl Bluegrass	<i>Poa palustris</i>	5.00%	23.9	0.50 PLS lb	Boneset	<i>Eupatorium perforatum</i>	0.40%	2.4	0.04 PLS lb
Indiangrass	<i>Sorghastrum nutans</i>	15.00%	6.6	1.50 PLS lb	Sneezeweed	<i>Helenium autumnale</i>	0.80%	3.8	0.08 PLS lb
Prairie Corti Grass	<i>Spartina pectinata</i>	5.00%	1.2	0.50 PLS lb	Ox-eye Sunflower	<i>Helopsis helianthoides</i>	2.40%	0.6	0.24 PLS lb
Sedges & Rushes					Great St. John's Wort	<i>Hypericum pyramidatum</i>	0.40%	2.8	0.04 PLS lb
Bottlebrush Sedge	<i>Carex comosa</i>	3.20%	3.5	0.32 PLS lb	Southern Blue Flag Iris	<i>Iris virginica shrevei</i>	1.80%	0.1	0.16 PLS lb
Porcupine Sedge	<i>Carex hystericina</i>	2.00%	2.2	0.20 PLS lb	Meadow Blazingstar	<i>Liatris ligulistylis</i>	0.20%	0.1	0.02 PLS lb
Pointed-broom Sedge	<i>Carex scoparia</i>	0.80%	2.5	0.08 PLS lb	Prairie Blazingstar	<i>Liatris pycnostachya</i>	0.80%	0.3	0.08 PLS lb
Fox Sedge	<i>Carex stipata</i>	1.80%	2.2	0.18 PLS lb	Great Blue Lobelia	<i>Lobelia alphilica</i>	0.20%	3.7	0.02 PLS lb
Brown Fox Sedge	<i>Carex vulpinoidea</i>	0.90%	3.3	0.09 PLS lb	Obedient Plant	<i>Physotegia virginiana</i>	0.70%	0.3	0.07 PLS lb
Green Butrush	<i>Scirpus atrovirens</i>	0.20%	3.4	0.02 PLS lb	Mountain Mint	<i>Pycnanthemum virginianum</i>	0.20%	1.6	0.02 PLS lb
Woolgrass	<i>Scirpus cyperinus</i>	0.10%	6.2	0.01 PLS lb	Black-eyed Susan	<i>Rudbeckia hirta</i>	0.40%	1.4	0.04 PLS lb
Softstem Butrush	<i>Scirpus validus</i>	1.00%	1.1	0.10 PLS lb	Cup Plant	<i>Silphium perfoliatum</i>	0.80%	0.0	0.08 PLS lb
					Prairie Dock	<i>Silphium terebinthinaceum</i>	0.40%	0.0	0.04 PLS lb
					Riddell's Goldenrod	<i>Solidago riddellii</i>	0.40%	1.4	0.04 PLS lb
					Purple Meadow Rue	<i>Thalictrum dasycarpum</i>	1.20%	0.5	0.12 PLS lb
					Blue Vervain	<i>Verbena hastata</i>	0.80%	2.7	0.08 PLS lb
					Common Ironweed	<i>Vernonia fasciculata</i>	0.80%	0.7	0.08 PLS lb
					Culver's Root	<i>Veronicastrum virginicum</i>	0.10%	2.9	0.01 PLS lb
					Golden Alexanders	<i>Zizia aurea</i>	2.00%	0.8	0.20 PLS lb

Plant Species *

Emergent

Blue Flag Iris (*Iris versicolor*)
 Monkey Flower (*Mimulus ringens*)
 Arrowhead (*Sagittaria latifolia*)
 Sweetflag (*Acorus calamus*)

Shoreline

Canada anemone (*Anemone canadensis*)
 Swamp milkweed (*Asclepias incarnata*)
 Marsh marigold (*Caltha palustris*)
 Turtlehead (*Chelone glabra*)
 Bottle gentian (*Gentiana andrewsii*)
 Sneezeweed (*Helenium autumnale*)
 Prairie blazing star (*Liatris pycnostachya*)
 Cardinal flower (*Lobelia cardinalis*)
 Obedient plant (*Physotegia virginiana*)
 Mountain mint (*Pycnanthemum virginianum*)

Upland

Columbine (*Aquilegia canadensis*)
 Rattlesnake master (*Eryngium yuccifolium*)
 Large-leaved aster (*Eurybia macrophylla*)
 Prairie phlox (*Phlox pilosa*)
 Stiff goldenrod (*Solidago rigida*)
 Smooth aster (*Symphoricarpon laeve*)

*These species represent a pool of potential species based on conditions and desired height. Actual selections will be based on availability. A minimum of 10 species will be used.

NWI

19570 Saint Croix Trail North
Marine on Saint Croix, Minnesota 55047
651-300-8334
info@nwimn.com | nwimn.com



RECIPIENT:

Jim Behr
1280 Pond View Lane
White Bear Lake, Minnesota 55110

Quote #1689

Sent on **Nov 17, 2021**

Total \$808.64

PRODUCT / SERVICE	DESCRIPTION	TOTAL
1. Tree Care - Crew Labor		\$306.00
2. Tree Care - Crew Truck - 5 Ton	Crew truck on job sight for equipment transport	\$125.00
3 . Tree Care - SD 64 Man Lift	Tree Care - SD 64 man lift with bucket for safe efficient removals.	\$222.50
Tree care - Mini Skid/ Dingo	Mini skid / dingo for small areas and or small jobs.	\$99.60
* Tree Service - Job Description	Drop boxelder tree, no clean up or haul away. All branches and trunks can be left on ground and pushed towards the bank around the creek. Skid steer is too large, this job will need the Dingo. Tree is marked with red tape. 2 man crew, see video for details.	



State of Minnesota

Income Contract

SWIFT Contract No.: **204575**

This contract is between the State of Minnesota, acting through its Commissioner of Corrections, Institution Community Work Crew Program, 1450 Energy Park Drive, St. Paul, Minnesota 55108, ("State"), and Birch Lake Ponds Townhome Association, 1197 Pond View Lane, White Bear Township, MN 55110, ("Purchaser"). State and Purchaser may be referred to jointly as "Parties."

Recitals

1. Under Minn. Stat. §241.278 the State is empowered to enter into income contracts
2. The Purchaser is in need of an Institution Community Work Crew (ICWC).
3. The State represents that it is duly qualified and agrees to provide the services described in this contract.

Accordingly, the Parties agree as follows:

Contract

1. Term of Contract

- 1.1 **Effective date:** December 15, 2021, or the date the State obtains all required signatures under Minnesota Statutes Section 16C.05, subdivision 2, whichever is later.
- 1.2 **Expiration date:** December 14, 2022, or until all obligations have been satisfactorily fulfilled, whichever occurs first.

2. State's Duties

The State will:

- 2.1 Provide crew leader(s) who will supervise up to ten (10) crewmembers per ten (10) hour days of work on dates mutually agreed between parties, including the hour's crew leaders spend for daily preparation and communication.
- 2.2 In coordination with the Purchaser, train each work crew in safety principles and techniques set forth by the Purchaser and applicable federal, state and local agency requirements. Purchaser agrees that the State has the responsibility and authority to refuse selected projects if it considers the projects beyond the skill level of the crewmembers and/or unsafe to perform.
- 2.3 Provide required personal safety equipment and clothing needed for specific work.
- 2.4 Screen projects to ensure that appropriate staff are assigned.

3. Purchaser's Duties

The Purchaser will

- 3.1 Obtain all necessary permits or licenses or special authority for all projects that utilize ICWC labor.
- 3.2 Assign all work and coordinate material purchases and delivery through the ICWC crew leader for projects to be performed by the State.
- 3.3 Hire any subcontractors utilized in the project.
- 3.4 Provide utilities at the work site and set up accounts for the purchase of materials and rental of specialized tools or equipment needed for the work.
- 3.5 Meet with the State as necessary to provide project information needed by the State in the performance of its' duties.

4. Payment

The Purchaser will pay the State for all services performed by the State under this contract as follows:

- 4.1 The Purchaser agrees to pay Eighty-Five dollars and 00/100 (\$85.00) for each overtime hour worked by the ICWC crew, as its share of the cost of providing a crew leader and placing the work crew into service on the ICWC program during the term of this agreement. Payment will be made no later than the 23rd day following the last day of the billing period.

5. Authorized Representative

The State's Authorized Representative is Scott Miller, ICWC Supervisor or his successor, 1450 Energy Park Drive, St. Paul, Minnesota 55108

The Purchaser's Authorized Representative is Jim Behr, Association board member or his successor, Birch Lake Ponds Townhome Association, 4890 Birch Lake Cir, White Bear Lake, MN 55110. If the Purchaser's Authorized Representative changes at any time during this Contract, the Purchaser must immediately notify the State.

6. Assignment, Amendments, Waiver, and Contract Complete.

- 6.1 Assignment. The Purchaser may neither assign nor transfer any rights or obligations under this Contract without the prior consent of the State and a fully executed assignment agreement, executed and approved by the authorized parties or their successors.
- 6.2 Amendments. Any amendment to this Contract must be in writing and will not be effective until it has been executed and approved by the authorized parties or their successors.
- 6.3 Waiver. If the State fails to enforce any provision of this Contract, that failure does not waive the provision or its right to enforce it.
- 6.4 Contract Complete. This Contract contains all negotiations and agreements between the State and the Purchaser. No other understanding regarding this Contract, whether written or oral, may be used to bind either party.

7. Liability

Each party will be responsible for its own acts and behavior and the results thereof.

8. Government Data Practices.

The Purchaser and State must comply with the Minnesota Government Data Practices Act, Minn. Stat. Ch. 13, (or, if the State contracting party is part of the Judicial Branch, with the Rules of Public Access to Records of the Judicial Branch promulgated by the Minnesota Supreme Court as the same may be amended from time to time) as it applies to all data provided by the State under this Contract, and as it applies to all data created, collected, received, stored, used, maintained, or disseminated by the Purchaser under this Contract. The civil remedies of Minn. Stat. § 13.08 apply to the release of the data governed by the Minnesota Government Practices Act, Minn. Stat. Ch. 13, by either the Purchaser or the State.

If the Purchaser receives a request to release the data referred to in this clause, the Purchaser must immediately notify and consult with the State's Authorized Representative as to how the Purchaser should respond to the request. The Purchaser's response to the request shall comply with applicable law.

9. Publicity and Endorsement.

- 9.1 Publicity. Any publicity regarding the subject matter of this Contract must identify the State as the sponsoring agency and must not be released without prior written approval from the State's Authorized Representative. For purposes of this provision, publicity includes notices, informational pamphlets, press releases, information posted on corporate or other websites, research, reports, signs, and similar public notices prepared by or for the Purchaser individually or jointly with others, or any subcontractors, with respect to the program, publications, or services provided resulting from this Contract.
- 9.2 Endorsement. The Purchaser must not claim that the State endorses its products or services.

10. State Audits.

Under Minn. Stat. § 16C.05, subd. 5, the Purchaser's books, records, documents, and accounting procedures and practices relevant to this Contract are subject to examination by the State, the State Auditor, or Legislative Auditor, as appropriate, for a minimum of six years from the expiration or termination of this Contract.

11. Governing Law, Jurisdiction, and Venue.

Minnesota law, without regard to its choice-of-law provisions, governs this Contract. Venue for all legal proceedings out of this Contract, or its breach, must be in the appropriate state or federal court with competent jurisdiction in Ramsey County, Minnesota.

12. Termination.

Either party may cancel this Contract at any time, with or without cause, upon 30 days' written notice to the other party

1. Purchaser

Print Name: MARK S. MILLER
Signature: *Mark S Miller*
Title: President, BLPAA Date: 11/30/21

2. Purchaser

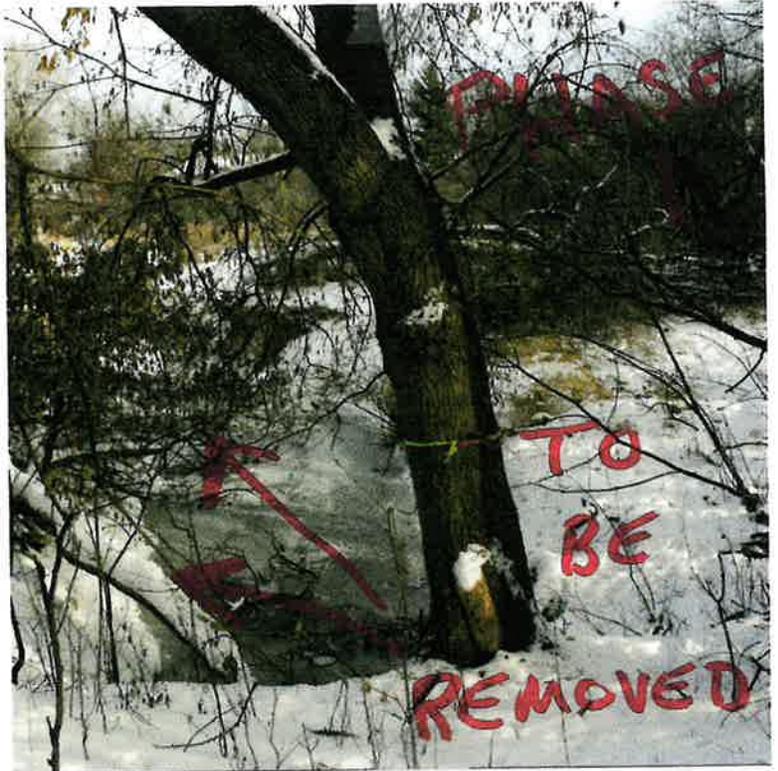
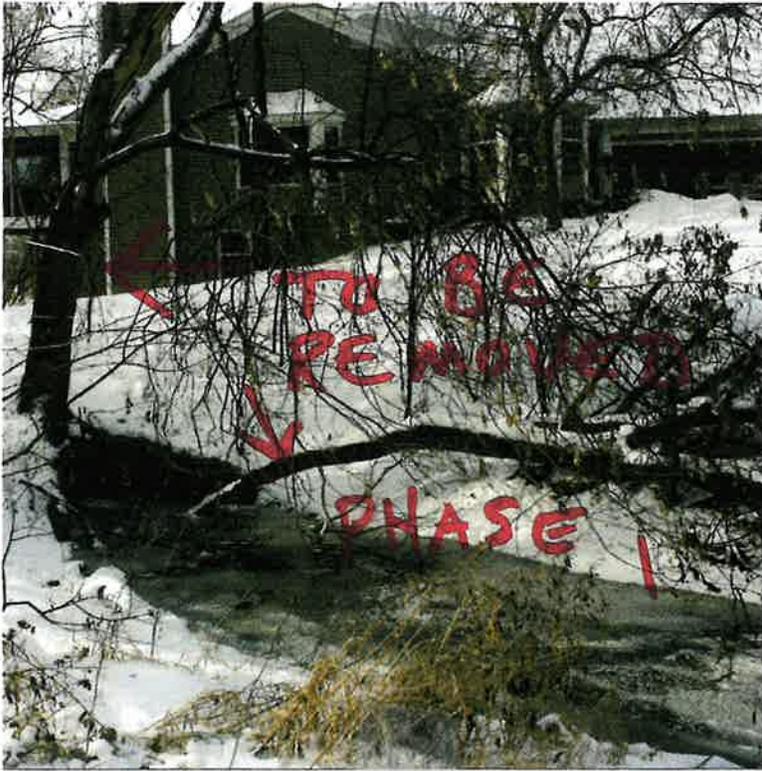
Print Name: _____
Signature: _____
Title: _____ Date: _____

3. State Agency

With delegated authority
Print Name: Curtis Shanklin
DocuSigned by:
Signature: *Curtis Shanklin*
3449B1EDDB4549A...
Title: Deputy Commissioner Date: 12/2/2021

4. Commissioner of Administration

As delegated to The Office of State Procurement
Print Name: Haylie Heil
DocuSigned by:
Signature: *Haylie Heil*
4AB4CCB119DA413...
Title: Contracts Specialist Date: 12/6/2021
Admin ID: 74251



Proposed Biochar Bench

Waters Edge

DRAFT CONCEPT ONLY

Wetland Fringe

Underdrain

Whitaker Pond Weir

Whitaker Street

Downstream Culverts - To Lambert Creek

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Path: C:\Users\leerdahl\Desktop\Whitaker\Temp\Whitaker Working.mxd



3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110
PHONE: (651) 490-2000
FAX: (888) 908-8166
TF: (800) 325-2055
www.sehinc.com

Project: VADLA 159595
Print Date: 12/17/2021
User Name: ejennings
Projection:
NAD 1983 HARN Adj MN Ramsey Feet
Source:

Whitaker Pond Proposed Improvements

White Bear Township, Minnesota

Figure
1

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.



Proposal for Fish Community Surveys in West Vadnais Lake

November 9, 2021

Prepared For: Vadnais Lakes Area Water Management Organization & Ramsey Washington
Metro Watershed District

Attn.: Dawn Tanner & Bill Bartodziej

Prepared by:

Carp Solutions LLC

www.carpsolutionsmn.com

Background

In 2020, Carp Solutions conducted spring electrofishing surveys, capturing, marking, and releasing 119 carp. Additionally, large numbers of black bullheads were observed, raising the question of whether they were contributing to the poor water quality of the lake. An electric barrier was planned to be installed at the outlet of the lake to prevent carp from leaving the lake. Due to the COVID-19 pandemic, this electric barrier was not able to be installed, and instead, a physical barrier was constructed. No large congregations of carp were observed at this barrier in the spring. Two box nets were installed in late July and pulled seven times to estimate carp abundance using mark-recapture analyses and remove the captured carp. A total of 356 carp were removed. The post-removal carp population was estimated to be 1,590 carp, with a biomass density of 22 kg/ha. However, the small carp that were observed in the spring and then captured in box nets throughout the summer quadrupled in size, leaving the possibility of rapid expansion of the biomass of carp in the lake through the growth of individuals. In the spring of 2021, the delayed electric barrier was installed at the outlet, along with a PIT antenna to monitor its effectiveness. No carp were detected at this antenna all season, likely due to a very low water level in the spring of 2021. No surveys or netting were conducted in 2021, so the carp population estimate and size structure is currently unknown.

Boat electrofishing to mark carp with PIT tags and assessment of carp size structure

In order to monitor the carp population after removals in 2020 and see whether further carp removals are warranted, we propose a series of standard electrofishing surveys. We will conduct three boat electrofishing surveys between June and September to estimate the carp population. Each survey will consist of 5 transects. It is important that these surveys are conducted on 3 separate days as carp catch rates might be influenced by the weather or other factors. We propose marking all captured carp with PIT tags. PIT tagged carp would be useful for continued monitoring of carp migrations out of the lake as well as for mark-recapture estimates for potential future removals. All captured carp will be counted, measured for length, implanted with PIT tags, and released. The mean catch rate per hour will be used to estimate carp abundance and biomass using a published relationship (Bajer et al. 2012). Any

species of fish seen other than carp will be noted, although these other species will not be netted, counted or measured.

Cost for Boat Electrofishing 1: \$4,200

Trap-Net survey to assess native fish populations, including black bullheads

In order to assess the general fish community in West Vadnais Lake, one trap net survey will be conducted in the summer. 5 small-mesh trap nets will be installed in the lake and left overnight. The next day, the trap nets will be pulled and up to 50 fish of each species from each net will be measured. All fish will be identified to species and counted.

The nets we use for these surveys have slightly smaller dimensions and smaller mesh size ($\frac{3}{8}$ " mesh) than standard nets used by MN DNR ($\frac{3}{4}$ " mesh). We use these small mesh nets because they are better suited for capturing age-0 and age-1 carp and bullheads than the regular size mesh nets (age-0 carp and bullheads can swim through the mesh of the standard nets). However, if additional surveys with standard nets were required, we could add that to the proposal.

Cost for Trap-Net survey: \$1,520

Report

At the conclusion of this effort, we will provide a written report with management recommendations. The report will be submitted by January 31, 2023.

Cost

This work will be conducted at a not-to-exceed budget of **\$6,220**. Detailed budget is presented below.

		Hours	People	Rate per person	Hourly rate	\$	\$ Totals
1.	Electrofishing						
	3 days of boat electrofishing/ marking	18	2	100	200	3600	
	PIT tags (up to 200)					600	
							4200
2.	Trap-netting						
	Set Trap nets	4	2	95	190	760	
	Remove Trap nets	4	2	95	190	760	

							1520
	Subtotal						5720
	Report and analysis						500
	Grand Total						6220



Proposal for carp removal during spring migration upstream of Pleasant/Deep Lake

January 18th, 2022

Prepared For: Dawn Tanner

VLAWMO

Prepared by:

Carp Solutions LLC

www.carpsolutionsmn.com

Data collected in previous years showed that a large number of common carp migrate each spring from Pleasant Lake, through Deep Lake and then towards Wilkinson Lake. We propose removal of common carp during their spring migration at the site just upstream of Deep Lake where we maintained our PIT antenna in the past.

Specifically, we propose:

1. Installation of a temporary physical barrier to block the migrating carp. This barrier will be installed across the width of the stream and will be constructed using PVC pipes driven into the bottom of the stream and horizontal support beams. We commonly use these temporary barriers for carp management as they are robust, easy to install, uninstall and do not require site engineering. We anticipate that the temporary physical barrier will be installed in early April and removed in early June (period when carp typically migrate). We will also install a secondary barrier (block net) downstream of the carp harvest area. This barrier will be only deployed for a few hours on days when we harvest carp and will be used to confine the carp to a manageable area and prevent them from escaping back into Deep Lake.
2. Installation of a PIT antenna with online access below the physical barrier to inform us about the timing of carp migrations so that we can mobilize quickly to remove them; early April through early June (2 months).
3. Removal of carp from the stream using backpack electrofisher, transporting them using a boat towards Deep Lake boat access where they will be loaded on trucks. Carp removal is likely to occur in late April through late May. Carp disposal is included.
4. At the conclusion, we will provide a report summarizing the observed spring carp migration (how many carp detected by the antenna and when), and the number of carp captured and removed. Each harvested carp will be scanned for PIT tags to estimate removal efficacy, which will be also included in the report. The report will be provided by December 31, 2022 but preliminary results can be communicated as needed.

Cost

This work will be conducted at a not-to-exceed budget of \$20,088. Detailed budget is presented below.

	People	Hours	Rate	\$
Prep and Install physical barrier above Deep Lake (30 feet in length)				
Upper PVC barrier (30 ')	3	8	95	2280
Lower barrier - block net	2	2	95	380
Materials				
2x4		8	11	88
PVC		120	15	1800
Install PIT antenna + camera	2	2	95	380
PIT antenna fee incl data access (\$1500/month)		2	1500	3000
Carp removal and disposal				
	4	32	95	12160
Total				20088

Draft- Not approved by VLAWMO Board

AGREEMENT GRANTING TEMPORARY EASEMENTS

THIS AGREEMENT GRANTING TEMPORARY EASEMENTS (“**Agreement**”) is made this ___ day of _____, 2021, by North Oaks Farms (“**NOF**”), Inc., a Minnesota Corporation, in favor of the Vadnais Lake Area Water Management Organization, a Minnesota joint powers watershed management organization (“**VLAWMO**”). NOF may hereinafter be referred to as the “**Grantor**.” This Agreement, and the temporary easements granted herein, becomes effective on the date of the last party to execute it.

Recitals

- A. The Grantor is the fee owner of that certain real property (PID Numbers: 09.30.22.22.0001, 09.30.22.32.0001, and 04.30.22.340001) located in Ramsey County, Minnesota, legally described on the attached Exhibit G (collectively, the “**Property**”);
- B. VLAWMO and the Grantor are working cooperatively to plan, design, and construct a series of projects, referred to as the Wilkinson Lake BMP Project, with an overall goal of improving water quality in the nutrient-impaired Wilkinson Lake, all located within the City of North Oaks (collectively, the “**Project**”);
- C. VLAWMO and the Grantor entered into a Memorandum of Understanding regarding the Project, which is incorporated herein by reference, that provides for the Grantor agreeing to execute and convey an easement to VLAWMO to access the Project area and to construct and maintain the Project;
- D. Portions of the Property are protected by a Conservation Easement, as defined below, that is held by the Minnesota Land Trust (“**MLT**”);
- E. To the extent the Project is carried out within areas of the Property protected by the Conservation Easement, such work must be coordinated with MLT to ensure it remains consistent with the Conservation Easement;
- F. MLT sent a letter of support for the Project to Grantor dated April 5, 2021 that discusses general concept plans and some of the anticipated outcomes of the Project; and
- G. To facilitate the Project, the Grantor desires to grant VLAWMO two temporary easements, one a temporary construction easement to facilitate construction activities (“**Temporary**

Construction Easement”) and one to provide for the long-term maintenance and repair of the constructed improvements (“Extended Temporary Easement”).

Draft- Not approved by VLAWMO Board

Terms of the Easements

1. Recitals and Exhibits. The above recitals and the attached exhibits are incorporated into and made part of this Agreement.
2. Temporary Construction Easement.
 - (a) Grant. For good and valuable consideration, receipt and sufficiency of which is hereby acknowledged by the Grantor, the Grantor grants and conveys to VLAWMO a Temporary Construction Easement over, under, and across the portion of the Property shown on the maps attached as Exhibit A and Exhibit E and legally described in the attached Exhibit B and Exhibit F (collectively the “**Temporary Construction Easement Area**”).
 - (b) Scope. The Temporary Construction Easement granted herein includes the right of VLAWMO, its contractors, agents, employees, vehicles, and equipment to enter upon the Temporary Construction Easement Area during normal business hours Monday - Friday for the purposes of: accessing the Property, Project staging, and soil disturbance and deposit areas; staging vehicles, equipment, and materials; excavation and construction of stormwater improvements as part of the Project; and performing restoration work. VLAWMO may, within the Temporary Construction Easement Area, remove trees, shrubs or other vegetation that reasonably interfere with the use of the area for the intended purposes, deposit earthen materials, move, store, and remove equipment and supplies, and to perform any other work necessary and incidental to the Project. VLAWMO is the responsible party for compliance with all regulatory rules and regulations including, but not limited to, compliance with any MPCA rules and regulations and that following construction activities and VLAWMO will promptly repair and restore any disturbed areas as per the project specifications, the Conservation Easement (as defined below), and the Project’s Storm Water Pollution Protection Plan (SWPPP).
 - (c) Expiration. The Temporary Construction Easement granted herein shall expire on August 31, 2025, at which time the Temporary Construction Easement shall terminate automatically without further action by the parties. The parties may agree to extend the Temporary Construction Easement in writing that is executed and recorded before the original expiration date.
3. Extended Temporary Easement.
 - (a) Grant. For good and valuable consideration, receipt and sufficiency of which is hereby acknowledged by the Grantor, the Grantor grants and conveys to VLAWMO an Extended Temporary Easement over, under, and across the portion of the Property shown on the map attached as Exhibit C and Exhibit E and legally described in the attached Exhibit D and Exhibit F (collectively the “**Extended Temporary Easement Area**”).

(b) Scope. The Extended Temporary Easement granted herein includes the right of VLA WMO, its contractors, agents, employees, vehicles, and equipment to enter upon the Extended Temporary Easement Area at all reasonable times for the purposes of accessing, maintaining, repairing, and improving the stormwater improvements constructed as part of the Project. VLA WMO may, within the Extended Temporary Easement Area, remove trees, shrubs or other vegetation that reasonably interfere with the use of the area for the intended purposes, remove earthen materials, move, store, and remove equipment and supplies, and to perform any other work necessary and incidental to accessing, maintaining, repairing, and improving the stormwater improvements; provided, however, that any such work that disturbs the soils within the Extended Temporary Easement Area are restored as set forth in Sections 2(b) and 7 herein.

(c) Expiration. The Extended Temporary Easement granted herein shall expire on December 31, 2035, at which time the Extended Temporary Easement shall terminate automatically without further action by the parties. The parties may agree to extend the Extended Temporary Easement in writing that is executed and recorded before the original expiration date.

4. Warranty of Title. The Grantor warrants that it is the owner of the Property and has the right, title, and capacity to convey to VLA WMO the temporary easements granted herein.
5. Environmental Matters. VLA WMO shall not be responsible for any costs, expenses, damages, demands, obligations, including penalties and reasonable attorneys' fees, or losses resulting from any claims, actions, suits or proceedings based upon a release or threat of release of any hazardous substances, pollutants, or contaminants which may have existed on, or which relate to, the easement areas or the Property prior to the effective date of this Agreement, unless VLA WMO contributed to such prior release or threat of release.
6. Duration of Easement. The Temporary Easement shall be binding upon the Grantor and its successors and assigns and shall be for the benefit of the VLA WMO and its successors and assigns until the expiration dates identified herein, at which time the identified easements shall terminate automatically without further action by VLA WMO or the Grantor.
7. Restoration Obligation. As a condition of the grant of the temporary easements conveyed herein, upon the expiration of the Temporary Construction Easement, VLA WMO shall promptly repair and restore the disturbed areas at the conclusion of work in each area per the project specifications, the Conservation Easement, as defined below, and the SWPPP.
8. Mechanics or Material Liens. The VLA WMO will not allow any mechanic's or material liens to be placed against the Property as a result of any work or material provided by, or on behalf of or with the approval of, VLA WMO.
9. Conservation Easement. This Agreement and the easements granted herein are subject to the terms and conditions of that certain Conservation Easement granted to the Minnesota Land Trust recorded December 30, 1999 as Document Number 1587059 in the office of the Ramsey County Register of Titles ("**Conservation Easement**"). VLA WMO and its contractors and

agents shall observe all applicable terms and conditions of the Conservation Easement to the extent its work may impact those portions of the Property encumbered by the Conservation Easement. All construction, maintenance, and repairs within the Temporary Construction Easement Area or the Extended Temporary Easement Area that are protected by the Conservation Easement shall be designed and constructed in such a way to either (a) not interfere with or impede with the natural habitat or (b) if the natural habitat is disturbed, all such impacts are promptly restored pursuant to a restoration plan approved by the MLT.

10. Indemnification. Subject to Section 5, VLAWMO agrees to defend and indemnify the Grantor and the Grantor's shareholders, directors, officers, and employees, from and against (1) losses, costs, damages or expenses, including without limitation reasonable attorney's fees ("Costs") and (2) third party demands, claims, suits, causes of actions or liabilities ("Claims"), but only to the extent such Costs and Claims arise out of the negligent acts or omissions of VLAWMO's employees' contractors', and agents' (collectively the "VLAWMO Parties") in the exercise of the easement rights granted in the Agreement, including, without limitation, claims arising from the VLAWMO Parties' violation of the terms of the Conservation Easement.

{Remainder of Page Intentionally Left Blank; Signature Page to Follow}

Draft- Not approved by VLAWMO Board

GRANTOR:

North Oaks Farms, Inc.

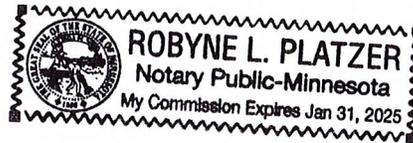
By: Thomas A. Dougherty
Name: Thomas A. Dougherty
Its: Treasurer

STATE OF MINNESOTA)

COUNTY OF Ramsey) ss.

The foregoing instrument was acknowledged before me this 7th day of December 2021 by Thomas Dougherty, the Treasurer, of North Oaks Farms, Inc., a Minnesota business corporation, on behalf of the corporation.

R. Platzer
Notary Public



VLAWMO:

Draft- Not approved by VLAWMO Board

**Vadnais Lake Area
Water Management Organization**

By: _____
Jim Lindner, Chair

Attest: _____
Patricia Youker, Secretary

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

The foregoing instrument was acknowledged before me this ____ day of _____ 2021 by Jim Lindner and Patricia Youker, the Chair and Secretary, respectfully, of the Vadnais Lake Area Water Management Organization, a Minnesota joint powers entity, on behalf of the entity.

Notary Public

CONSENT

Draft- Not approved by VLAWMO Board

The Minnesota Land Trust, a non-profit corporation organized and existing under the laws of the State of Minnesota does hereby consent to the foregoing Agreement by and between the North Oaks Farms, Inc. and the Vadnais Lake Area Watershed Management Organization.

The Minnesota Land Trust specifically reserves all rights, including without limitation its rights of enforcement against the owner of the property or any responsible third party, as set forth in that certain Conservation Easement dated December 30, 1999, as Document Number 1587059 in the office of the Ramsey County Register of Titles.

Minnesota Land Trust

By: 

Printed Name: Kris Larson

Its: Executive Director

STATE OF MINNESOTA

ss.

COUNTY OF RAMSEY

The foregoing instrument was acknowledged before me this 23rd day of November, 2021, by Kris Larson, the Executive Director of the Minnesota Land Trust, a non-profit corporation organized and existing under the laws of the State of Minnesota.



Notary Public

Drafted by:
Kennedy & Graven, Chartered (TJG)
150 South 5th St, Suite 700
Minneapolis, MN 55402
612-337-9300

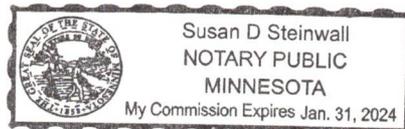


EXHIBIT A

Easement Detail Sketch of the Temporary Construction Easement Area

Draft- Not approved by VLAWMO Board

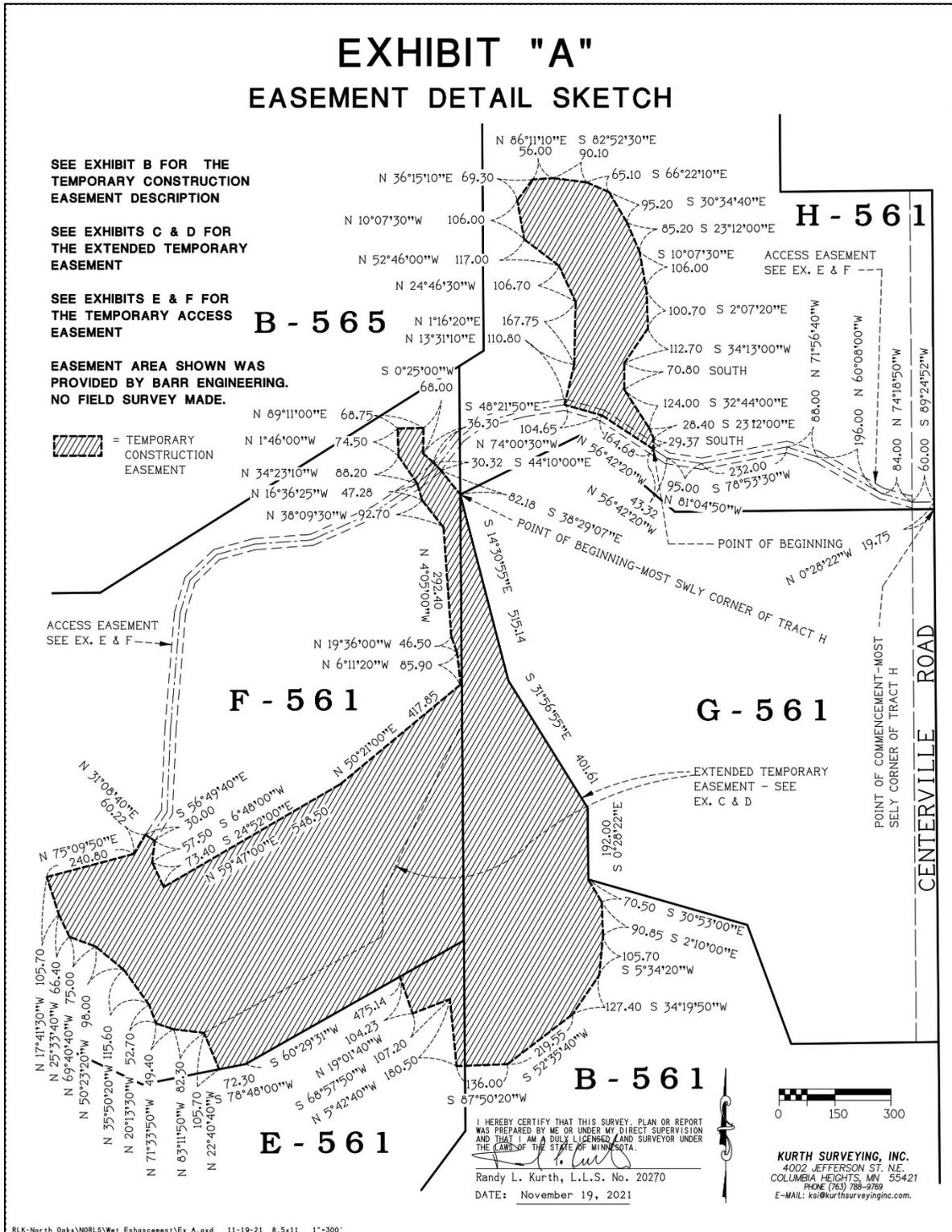


EXHIBIT B

Legal Description of Temporary Construction Easement Area

Draft- Not approved by VLAWMO Board

EXHIBIT "B"
EASEMENT DESCRIPTION
SHEET 1 OF 2

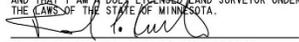
An easement for Temporary Construction purposes over those parts of Tract H, REGISTERED LAND SURVEY (R.L.S.) NO. 561, described as follows:

Commencing at the most southeasterly corner of Tract H;
thence North 00 degrees 28 minutes 22 seconds West, along the east line of Tract H, a distance of 19.75 feet;
thence South 89 degrees 24 minutes 52 seconds West, a distance of 60.00 feet;
thence North 74 degrees 18 minutes 50 seconds West, a distance of 84.00 feet;
thence North 60 degrees 08 minutes 00 seconds West, a distance of 196.00 feet;
thence North 71 degrees 56 minutes 40 seconds West, a distance of 88.00 feet;
thence South 78 degrees 53 minutes 30 seconds West, a distance of 232.00 feet;
thence North 81 degrees 04 minutes 50 seconds West, a distance of 95.00 feet;
thence North 56 degrees 42 minutes 20 seconds West, a distance of 43.32 feet; to the POINT OF BEGINNING;
thence North 56 degrees 42 minutes 20 seconds West, a distance of 164.68 feet;
thence North 74 degrees 00 minutes 30 seconds West, a distance of 104.65 feet;
thence North 13 degrees 31 minutes 10 seconds East, a distance of 110.80 feet;
thence North 01 degrees 16 minutes 20 seconds East, a distance of 167.75 feet;
thence North 24 degrees 46 minutes 30 seconds West, a distance of 106.70 feet;
thence North 52 degrees 46 minutes 00 seconds West, a distance of 117.00 feet;
thence North 10 degrees 07 minutes 30 seconds West, a distance of 106.00 feet;
thence North 36 degrees 15 minutes 10 seconds East, a distance of 69.30 feet;
thence North 86 degrees 11 minutes 10 seconds East, a distance of 56.00 feet;
thence South 82 degrees 52 minutes 30 seconds East, a distance of 90.10 feet;
thence South 66 degrees 22 minutes 10 seconds East, a distance of 65.10 feet;
thence South 01 degrees 34 minutes 40 seconds East, a distance of 95.20 feet;
thence South 23 degrees 12 minutes 00 seconds East, a distance of 85.20 feet;
thence South 10 degrees 07 minutes 30 seconds East, a distance of 106.00 feet;
thence South 02 degrees 07 minutes 20 seconds East, a distance of 100.70 feet;
thence South 34 degrees 13 minutes 00 seconds West, a distance of 112.70 feet;
thence South 00 degrees 00 minutes 00 seconds East, a distance of 70.80 feet;
thence South 32 degrees 44 minutes 00 seconds East, a distance of 124.00 feet;
thence South 23 degrees 12 minutes 00 seconds East, a distance of 28.40 feet;
thence South 00 degrees 00 minutes 00 seconds East, a distance of 29.37 feet to the POINT OF BEGINNING.

EASEMENT AREA AS DESCRIBED = 134,624 ± SQ.FT \ 3.09± ACRES (INCLUDES PART OF ACCESS EASEMENT)

SEE EXHIBIT A FOR THE EASEMENT DETAIL SKETCH

I HEREBY CERTIFY THAT THIS SURVEY, PLAN OR REPORT
WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER
THE LAWS OF THE STATE OF MINNESOTA.


Randy L. Kurth, L.L.S. No. 20270

DATE: November 19, 2021

KURTH SURVEYING, INC.
4002 JEFFERSON ST. N.E.
COLUMBIA HEIGHTS, MN 55421
PHONE (763) 788-9789
E-MAIL: ksl@kurthsurveyinginc.com.

EXHIBIT "B" LAWMO Board

EASEMENT DESCRIPTION

SHEET 2 OF 2

An easement for Temporary Construction purposes over those parts of Tracts B, E and F, REGISTERED LAND SURVEY (R.L.S.) NO. 561, described as follows:

Beginning at the most southwesterly corner of Tract H of said R.L.S.;

thence South 14 degrees 30 minutes 55 seconds East, along a line common to Tracts B and G, a distance of 515.14 feet;

thence South 31 degrees 56 minutes 55 seconds East, along said common boundary, a distance of 401.61 feet;

thence South 00 degrees 28 minutes 22 seconds East, along said common boundary, a distance of 192.00 feet;

thence South 30 degrees 53 minutes 00 seconds East, a distance of 70.50 feet;

thence South 02 degrees 10 minutes 00 seconds East, a distance of 90.85 feet;

thence South 05 degrees 34 minutes 20 seconds West, a distance of 105.70 feet;

thence South 34 degrees 19 minutes 50 seconds West, a distance of 127.40 feet;

thence South 52 degrees 35 minutes 40 seconds West, a distance of 219.55 feet;

thence South 87 degrees 50 minutes 20 seconds West, a distance of 136.00 feet;

thence North 05 degrees 42 minutes 40 seconds West, a distance of 180.50 feet;

thence South 68 degrees 57 minutes 50 seconds West, a distance of 107.20 feet;

thence North 19 degrees 01 minutes 40 seconds West, a distance of 104.23 feet to the boundary common to Tracts E and F;

thence South 60 degrees 29 minutes 31 seconds West, along a line common to Tracts E and F, a distance of 475.14 feet;

thence South 78 degrees 48 minutes 00 seconds West, along said common boundary, a distance of 72.30 feet;

thence North 22 degrees 40 minutes 40 seconds West, a distance of 105.70 feet;

thence North 83 degrees 11 minutes 50 seconds West, a distance of 82.30 feet;

thence North 71 degrees 33 minutes 50 seconds West, a distance of 49.40 feet;

thence North 20 degrees 13 minutes 30 seconds West, a distance of 52.70 feet;

thence North 35 degrees 50 minutes 20 seconds West, a distance of 115.60 feet;

thence North 50 degrees 23 minutes 20 seconds West, a distance of 98.00 feet;

thence North 69 degrees 40 minutes 40 seconds West, a distance of 75.00 feet;

thence North 25 degrees 33 minutes 40 seconds West, a distance of 66.40 feet;

thence North 17 degrees 41 minutes 30 seconds West, a distance of 105.70 feet;

thence North 75 degrees 09 minutes 50 seconds East, a distance of 240.80 feet;

thence North 31 degrees 08 minutes 40 seconds East, a distance of 60.22 feet;

thence South 56 degrees 49 minutes 40 seconds East, a distance of 30.00 feet;

thence South 06 degrees 48 minutes 00 seconds West, a distance of 57.50 feet;

thence South 24 degrees 52 minutes 00 seconds East, a distance of 73.40 feet;

thence North 59 degrees 47 minutes 00 seconds East, a distance of 548.50 feet;

thence North 50 degrees 21 minutes 00 seconds East, a distance of 417.85 feet;

thence North 06 degrees 11 minutes 20 seconds West, a distance of 85.90 feet;

thence North 19 degrees 36 minutes 00 seconds West, a distance of 46.50 feet;

thence North 04 degrees 05 minutes 00 seconds West, a distance of 292.40 feet;

thence North 38 degrees 09 minutes 30 seconds West, a distance of 92.70 feet;

thence North 16 degrees 36 minutes 25 seconds West, a distance of 47.28 feet;

thence North 34 degrees 23 minutes 10 seconds West, a distance of 88.20 feet;

thence North 01 degrees 46 minutes 00 seconds West, a distance of 74.50 feet;

thence North 89 degrees 11 minutes 00 seconds East, a distance of 68.75 feet;

thence South 00 degrees 25 minutes 00 seconds West, a distance of 68.00 feet;

thence South 48 degrees 21 minutes 50 seconds East, a distance of 36.30 feet;

thence South 44 degrees 10 minutes 00 seconds East, a distance of 30.32 feet;

thence South 38 degrees 29 minutes 07 seconds East, a distance of 82.18 feet to the POINT OF BEGINNING

EASEMENT AREA AS DESCRIBED = 943,190 ± SQ.FT \ 21.65± ACRES (INCLUDES PART OF ACCESS EASEMENT)

SEE EXHIBIT A FOR THE EASEMENT DETAIL SKETCH

I HEREBY CERTIFY THAT THIS SURVEY, PLAN OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

Randy L. Kurth, L.L.S. No. 20270

DATE: November 19, 2021

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EXHIBIT D

Legal Description of Extended Temporary Easement

Draft- Not approved by VLAWMO Board

**EXHIBIT "D"
EASEMENT DESCRIPTION**

An easement for Extended Temporary Construction purposes over those parts of Tracts B, E and F, REGISTERED LAND SURVEY (R.L.S.) NO. 561 described as follows:

Beginning at the most southwesterly corner of Tract H of said R.L.S.;

thence South 14 degrees 30 minutes 55 seconds East, along the boundary common to said Tracts B and G, a distance of 515.14 feet;

thence South 31 degrees 56 minutes 55 seconds East, along said common boundary, a distance of 401.61 feet;

thence South 00 degrees 28 minutes 22 seconds East, along said common boundary, a distance of 192.00 feet;

thence South 30 degrees 53 minutes 00 seconds East, a distance of 70.50 feet;

thence South 02 degrees 10 minutes 00 seconds East, a distance of 90.85 feet;

thence South 05 degrees 34 minutes 20 seconds West, a distance of 105.70 feet;

thence South 34 degrees 19 minutes 50 seconds West, a distance of 127.40 feet;

thence South 52 degrees 35 minutes 40 seconds West, a distance of 219.55 feet;

thence South 87 degrees 50 minutes 20 seconds West, a distance of 136.00 feet;

thence North 05 degrees 42 minutes 40 seconds West, a distance of 180.50 feet;

thence South 68 degrees 57 minutes 50 seconds West, a distance of 107.20 feet;

thence North 19 degrees 01 minutes 40 seconds West, a distance of 104.23 feet to the boundary common to Tracts E and F of said R.L.S.;

thence South 60 degrees 29 minutes 31 seconds West, along the boundary common to Tracts E and F, a distance of 475.14 feet;

thence South 78 degrees 48 minutes 00 seconds West, along said common boundary, a distance of 72.30 feet;

thence North 22 degrees 40 minutes 40 seconds West, a distance of 105.70 feet;

thence North 61 degrees 38 minutes 30 seconds East, a distance of 538.80 feet;

thence North 17 degrees 28 minutes 20 seconds East, a distance of 18.20 feet;

thence North 00 degrees 46 minutes 10 seconds West, a distance of 79.90 feet;

thence North 03 degrees 40 minutes 20 seconds East, a distance of 20.20 feet;

thence North 24 degrees 51 minutes 30 seconds East, a distance of 504.29 feet to the boundary common to Tracts F and B of said R.L.S.;

thence North 00 degrees 28 minutes 22 seconds West, along the boundary common to Tracts F and B, a distance of 69.88 feet;

thence North 06 degrees 11 minutes 20 seconds West, a distance of 118.75 feet;

thence North 19 degrees 36 minutes 00 seconds West, a distance of 46.50 feet;

thence North 04 degrees 05 minutes 00 seconds West, a distance of 292.40 feet;

thence North 38 degrees 09 minutes 30 seconds West, a distance of 92.70 feet;

thence North 16 degrees 36 minutes 25 seconds West, a distance of 47.28 feet;

thence North 34 degrees 23 minutes 10 seconds West, a distance of 88.20 feet;

thence North 01 degrees 46 minutes 00 seconds West, a distance of 74.50 feet;

thence North 89 degrees 11 minutes 00 seconds East, a distance of 68.75 feet;

thence South 00 degrees 25 minutes 00 seconds West, a distance of 68.00 feet;

thence South 48 degrees 21 minutes 50 seconds East, a distance of 36.30 feet;

thence South 44 degrees 10 minutes 00 seconds East, a distance of 30.32 feet;

thence South 38 degrees 29 minutes 07 seconds East, a distance of 82.18 feet to the POINT OF BEGINNING.

EASEMENT AREA AS DESCRIBED = 540,892 ± SQ.FT \ 12.42 ± ACRES (INCLUDES PART OF ACCESS EASEMENT)

SEE EXHIBIT C FOR THE EASEMENT DETAIL SKETCH

I HEREBY CERTIFY THAT THIS SURVEY, PLAN OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

Randy L. Kurth
Randy L. Kurth, L.L.S. No. 20270
DATE: November 19, 2021

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EXHIBIT E

Easement Detail Sketch of Temporary Construction and Extended Temporary Easement Area

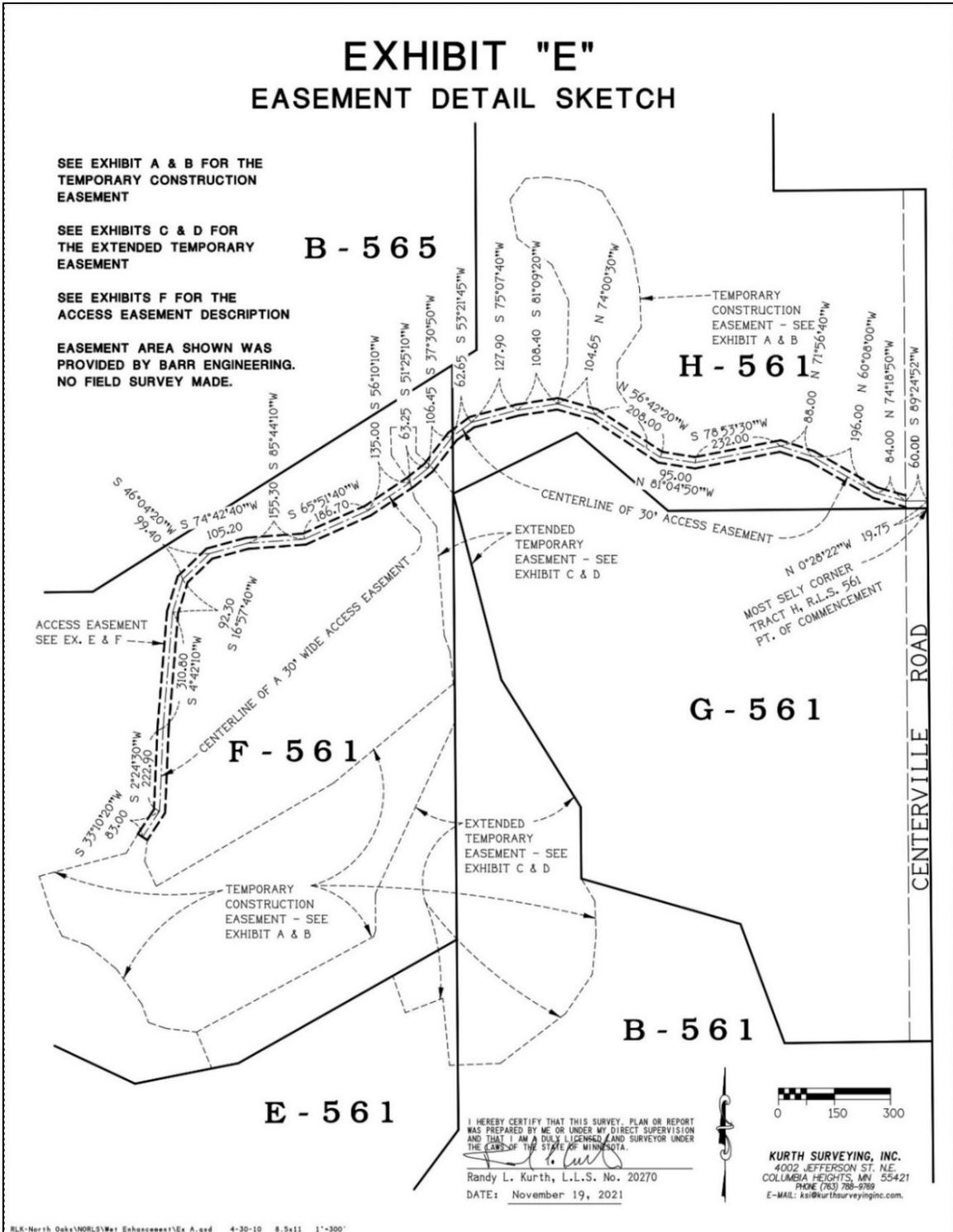


EXHIBIT F

Legal Description of Temporary Construction and Extended Temporary Easement Access

Draft- Not approved by VLAWMO Board

**EXHIBIT "F"
EASEMENT DESCRIPTION**

An easement for Temporary Access purposes over those parts of Tract F and H, REGISTERED LAND SURVEY NO. 561, lying 15.00 feet each side of the following described centerline:

Commencing at the most southeasterly corner of Tract H;
 thence North 00 degrees 28 minutes 22 seconds West, along the east line of Tract H, a distance of 19.75 feet to the POINT OF BEGINNING of the Centerline to be described;
 thence South 89 degrees 24 minutes 52 seconds West, a distance of 60.00 feet;
 thence North 74 degrees 18 minutes 50 seconds West, a distance of 84.00 feet;
 thence North 60 degrees 08 minutes 00 seconds West, a distance of 196.00 feet;
 thence North 71 degrees 56 minutes 40 seconds West, a distance of 88.00 feet;
 thence South 78 degrees 53 minutes 30 seconds West, a distance of 232.00 feet;
 thence North 81 degrees 04 minutes 50 seconds West, a distance of 95.00 feet;
 thence North 56 degrees 42 minutes 20 seconds West, a distance of 208.00 feet;
 thence North 74 degrees 00 minutes 30 seconds West, a distance of 104.65 feet;
 thence South 81 degrees 09 minutes 20 seconds West, a distance of 108.40 feet;
 thence South 75 degrees 07 minutes 40 seconds West, a distance of 127.90 feet;
 thence South 53 degrees 21 minutes 45 seconds West, a distance of 62.65 feet;
 thence South 37 degrees 30 minutes 50 seconds West, a distance of 106.45 feet;
 thence South 51 degrees 25 minutes 10 seconds West, a distance of 63.25 feet;
 thence South 56 degrees 10 minutes 10 seconds West, a distance of 135.00 feet;
 thence South 65 degrees 51 minutes 40 seconds West, a distance of 186.70 feet;
 thence South 85 degrees 44 minutes 10 seconds West, a distance of 155.30 feet;
 thence South 74 degrees 42 minutes 40 seconds West, a distance of 105.20 feet;
 thence South 46 degrees 04 minutes 20 seconds West, a distance of 99.40 feet;
 thence South 16 degrees 57 minutes 40 seconds West, a distance of 92.30 feet;
 thence South 04 degrees 42 minutes 10 seconds West, a distance of 310.80 feet;
 thence South 02 degrees 24 minutes 30 seconds West, a distance of 222.90 feet;
 thence South 33 degrees 10 minutes 20 seconds West, a distance of 83.00 feet and there terminating.

EASEMENT AREA AS DESCRIBED = 85,954 ± SQ.FT \ 1.97 ± ACRES (TO 60' CENTERVILLE ROAD R/W)

SEE EXHIBIT E FOR THE EASEMENT DETAIL SKETCH

I HEREBY CERTIFY THAT THIS SURVEY, PLAN OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

Randy L. Kurth

Randy L. Kurth, L.L.S. No. 20270

DATE: November 19, 2021

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EXHIBIT G

Legal Description of the Property

Draft- Not approved by VLAWMO Board

Tracts B, F, and H, Registered Land Survey No. 561, Ramsey County, Minnesota, together with all hereditaments and appurtenances belonging thereto.

Technical Memorandum

To: Vadnais Lake Area Watershed Management Organization
From: David Haar – Barr Engineering Co.
Subject: Bald eagle nest within project extents
Date: November 29, 2021
Project: Wilkinson 319 Restoration Project
Cc: North Oaks Company

This memorandum is in regard to the known bald eagle's nest located within the vicinity of the restoration project proposed for construction in the City of North Oaks. Bald eagles were removed from the threatened and endangered species list in 2007 due to the marked recovery of the species. However, bald eagles are still legally protected under both the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). The United States Fish and Wildlife Service (USFWS) administers these acts. The Minnesota Department of Natural Resources also has regulations which specifically govern the removal of bald eagle nests. It is our understanding that the nest in question will remain and that the tree in which it rests will not be removed during the course of this project.

USFWS guidance states that projects which occur within 660 feet of an occupied bald eagle nest may have the potential to impact or disturb nesting eagles. For projects that meet this criterion, project proposers are advised to contact the USFWS to determine the best path forward. On November 19th, 2021, the USFWS was contacted regarding this project. They reviewed the information that was provided and responded on November 22nd, 2021. USFWS staff advised that if a buffer of 100 feet could be maintained around the eagle's nest, then no further restrictions would be recommended. It is their opinion that eagles are resilient to human disturbance and that a buffer of this distance is likely to be sufficient to avoid disturbance. They also advised that if the eagles appeared to be agitated or disturbed (i.e. circling, flushing regularly and screaming), to contact USFWS again and discuss getting a disturbance permit. This guidance is consistent with Barr's understanding of the requirements set forth by USFWS.

The bald eagle nesting season runs from approximately January 1st through July 31st in Minnesota. Projects which occur outside of the nesting season do not pose a risk of disturbance to nesting eagles. It is our understanding that this project will be conducted during the nesting season, however. As such, we recommend that the 100-foot buffer proposed by the USFWS be maintained and that an environmental monitor experienced in the nesting behavior of bald eagles be present per USFWS guidance during the course of the project to observe the nest and ensure that disturbance does not occur. We recommend the required frequency of eagle monitoring activities be discussed with the USFWS prior to starting construction on the project.

To: Vadnais Lake Area Watershed Management Organization
From: David Haar – Barr Engineering Co.
Subject: Bald eagle nest within project extents
Date: November 29, 2021
Page: 2

It is also our understanding that if eagles do appear agitated during construction activities, USFWS should be contacted regarding appropriate corrective action, such as obtaining a disturbance permit. Such permits have been known to take between one week to one month to obtain. We recommend consulting USFWS regarding their estimated timeline to complete the permitting process should it become warranted during construction activities.