

Shingle Creek Watershed Management Commission Treasurer's Report

	2023 Budget	July	August	%age YTD	2023 YTD
REVENUE					
Application Fees	15,000	3,300.00		126.00	18,900.00
Member Assessments	370,000			100.00	370,000.00
Interest and Dividends	250	14,648.73		37,527.44	93,818.60
Education Reimbursement	33,000			81.82	27,000.00
Miscellaneous Income					-
<i>Transfer to (from) Grants (see following pages)</i>		-	-		47,529.25
<i>Transfer to (from) CIPs</i>		109,412.14			109,412.14
<i>Transfer to (from) Closed Projects Account</i>					-
TOTAL REVENUE	418,250	127,360.87	-		666,659.99
EXPENSES					
ADMINISTRATION					
Administrative Services	70,000	4,753.81	4,855.42	56.35	39,445.57
Engineering Support	15,000	1,592.30	1,555.56	59.76	8,964.13
Project Reviews	1,500	106.31	51.62	39.44	591.58
ENGINEERING					
Administration	77,000	5,302.97	5,854.68	66.13	50,917.01
Grant Application Writing	11,000			27.39	3,012.50
Project Reviews/WCA	30,000	1,374.25	2,326.75	85.80	25,738.73
Highway 252/94 EIS Review					6,071.25
TMDL 5 Year Reviews	5,000			76.51	3,825.25
SC Trail Feasibility Study		4,673.00	3,845.75		19,602.98
Brookdale Pk SC Remeander Feasibility Stud		4,292.00	5,850.28		26,203.51
Gauke Pond SWA Amendment		1,857.00	1,070.50		25,459.64
Eagle Lake SWA		10,482.25	9,470.75		37,739.35
LEGAL - Legal Services	6,000	697.17	396.17	57.90	3,474.18
MnDOT Scoping Project		21.50	451.50		1,010.50
MISCELLANEOUS					
Bookkeeping	8,000	937.50	387.75	80.50	6,440.25
Audit	7,500		6,300.00	84.00	6,300.00
Insurance & Bonding	3,200			104.34	3,339.00
Meeting Expense	5,000	333.20	283.50	85.09	4,254.73
PROGRAMS					
Stream Monitoring	34,000	6,193.90	2,678.80	82.15	27,931.12
Stream Monitoring (USGS)	4,200			16.30	684.75
Lake Monitoring	28,000	5,897.20	2,948.60	44.94	12,584.55
Citizen Assisted Lake Monitoring (CAMP)	5,200		517.50	48.63	2,529.00
Volunteer Stream Monitoring (River Watch)	2,000			-	-
Annual Monitoring Report	17,500			96.93	16,962.52
Water Quality Education					
Education Program	17,000	1,015.50	1,204.50	73.07	12,421.25
WMWA General Programs	20,000	917.94	779.97	36.09	7,217.05
WMWA Implementation/Watershed Prep	24,500	8,347.14	337.50	41.05	10,056.64
4th Generation Plan					1,600.20
Subwatershed BMP Assessment	5,000			-	-
<i>Transfer to (from) Grants (see following pages)</i>		2,923.82	497.00		30,013.20
<i>Transfer to (from) CIPs</i>		8,742.85	1,760.00		18,004.95
<i>Transfer to (from) City Cost Share Fund</i>					-
<i>Transfer to (from) Partnership BMP Cost Share Fund</i>					-
<i>Transfer to (from) Closed Projects Account</i>					-
<i>To/From Reserves</i>	21,650				
TOTAL OPERATING EXPENSE	418,250	70,461.61	53,424.10		412,395.39
CASH SUMMARY					
4M Fund Balance at 12/31/22					3,103,648.04
Plus Revenue Received 2023 to date					739,211.09
Minus Claims Approved to Date					(532,902.59)
Minus Claims Presented Current Month					53,424.10
Fund Balance		3,416,804.74			3,363,380.64

Shingle Creek Watershed Management Commission Treasurer's Report

Claims Presented	General Ledger Acct No	July	August	Total
Kennedy & Graven				847.67
Legal - General	52001		396.17	
Legal - MnDOT Scoping Project	52020		451.50	
Johnson & Company, Ltd. - Audit	54003		6,300.00	6,300.00
PLM Lake & Land Mgt - Meadow Lake CLP	70836		300.00	300.00
WSB - Crystal Lake Carp Mgt fr '22 Maint C	70836		1,460.00	1,460.00
Jessica Sahu Teli - WMWA Ed Services	57011		337.50	337.50
Stantec				36,376.86
General Engineering	51001		5,854.68	
Grant Writing	51005			
Project Reviews	51002		2,326.75	
Highway 252/94 EIS Review	58034			
TMDL 5-Year Reviews	56011			
Stream Monitoring	56004		2,678.80	
Lake Monitoring	56010		2,948.60	
CAMP	56002		517.50	
Education	57008		1,121.25	
Education - WMWA	57009		195.00	
Meadow Lake Mgt Plan Phase 2 Grant	70739		142.00	
Crystal Lake Management Plan Grant	70732		355.00	
Bass Lake Vegetation Impv CPL Grant	70741			
SC Trail Stabil.& Fishery Imp Feas.Study	58030		3,845.75	
Brookdale Park SC Remeander Feas.Study	58031		5,850.28	
Gaulke Pond SWA Amendment	58032		1,070.50	
Eagle Lake SWA	58033		9,470.75	
Judie Anderson's Secretarial Service				584.97
WMWA General Expense	57009		584.97	
WMWA Educators/WS Prep	57011			
Judie Anderson's Secretarial Service				7,217.10
Administration	53001		4,855.42	
Project Review Support	53002		51.62	
Bookkeeping / Audit Prep	54002		387.75	
Meeting Expense	54001		283.50	
Education Programs	57008		83.25	
Engineering Support	53004		1,391.68	
Engineering Support - 4th Gen Plan	53010			
Engineering Support - CIP General	53004		163.88	
Total Claims				53,424.10

Kennedy & Graven, Chartered

150 South Fifth Street, Suite 700
Minneapolis, MN 55402

(612) 337-9300

41-1225694

July 28, 2023

Statement No. 175806

Shingle Creek Watershed Management Commission

Judie Anderson

JASS - Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447

Through June 30, 2023

SH220-00001	General	396.17
SH220-00031	JPA Update Project	451.50

Total Current Billing: 847.67

I declare, under penalty of law, that this account, claim or demand is just and correct and that no part of it has been paid.

DocuSigned by:

Troy J. Gilchrist

07F65C8F0F29444...
Signature of Claimant

Kennedy & Graven, Chartered

150 South Fifth Street, Suite 700
Minneapolis, MN 55402

Shingle Creek Watershed
Judie Anderson

June 30, 2023

SH220-00001 General

Through June 30, 2023

For All Legal Services As Follows:

			Hours	Amount
6/5/2023	TJG	Review revised agreement with Stantec; email to Todd S regarding same	0.20	43.00
6/8/2023	TJG	Prepare for, travel to, and attend meeting	1.60	344.00
Total Services:			\$	387.00

For All Disbursements As Follows:

6/8/2023		Troy J. Gilchrist - Mileage		9.17
Total Disbursements:			\$	9.17

Total Services and Disbursements: \$ 396.17

Kennedy & Graven, Chartered

150 South Fifth Street, Suite 700
Minneapolis, MN 55402

Shingle Creek Watershed
Judie Anderson

June 30, 2023

SH220-00031 JPA Update Project

Through June 30, 2023

For All Legal Services As Follows:

			Hours	Amount
6/6/2023	TJG	Work on JPA update; email to Diane S about summarizing project procedures	2.10	451.50
			Total Services:	\$ 451.50
			Total Services and Disbursements:	\$ 451.50

Johnson & Company, Ltd.
3255 Fernbrook Lane North
Minneapolis , MN 55447
(952) 525-9500

SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION
3235 FERNBROOK LANE N
PLYMOUTH, MN 55447

Client # : 4283

Invoice Number : 47705

Invoice Date : Friday, June 30, 2023

For Professional Services Rendered :

Preparation of report on audited financial statements for the year ended December 31,
2022.

6,300.00

Total Invoice Amount

\$6,300.00



PLM Lake and Land Management Corp.
Midwest Region
P.O. Box 438
Howard City, MI 49329

INVOICE

PHONE: 218-270-3338
 FAX: 866-527-6399

EMAIL: servicemw@plmcorp.net
 WEBSITE: www.plmcorp.net

Date:	5/24/2023
Invoice #:	2002061

Bill To Address

Shingle Creek Watershed Management Commis
 Judie Anderson
 3235 Fernbrook Lane N
 Plymouth, MN 55447

Quantity	Description	Rate	Amount
3.65	Flumioxazin Treatment for CLP on Meadow Lake	80.00	292.00
1	Fuel Surcharge	8.00	8.00
TOTAL			\$300.00

There will be a \$25.00 fee charged for NSF checks.

PLEASE DETACH AND RETURN BOTTOM PORTION WITH PAYMENT

REMITTANCE

Bill To Address

Shingle Creek Watershed
 Management Commis
 Judie Anderson
 3235 Fernbrook Lane N
 Plymouth, MN 55447

Lake Address

Please check box if address is incorrect or has changed and correct necessary changes.

Date:	5/24/2023
Invoice #:	2002061
Terms:	NET 30
Due Date:	6/23/2023
Balance Due:	\$300.00

AMT ENCLOSED:

To pay your invoice online please visit www.plmcorp.com/payinvoiceonline, or you may call 218-270-3338 to pay by phone. There will be a 4% card processing fee.



Midwest Region (S)

701 XENIA AVENUE S
 SUITE 300
 MINNEAPOLIS, MN
 55416



Shingle Creek and West Mississippi Management
 Comm
 3235 Fernbrook Lane North
 Plymouth, MN 55447

June 30, 2023
 Project/Invoice: R-022512-000 - 2
 Reviewed by: Anthony Havranek
 Project Manager: Jordan Wein

2023 Carp Management in Crystal Lake
Professional Services from May 1, 2023 to May 31, 2023

Phase 001 2023 Carp Management in Crystal Lake
 Carp Removal Activities

			Hours	Rate	Amount
Blazek, Kyle	5/30/2023	Setting up box nets.	6.00	100.00	600.00
Duxbury, Bailey	5/23/2023	Setting up box next in both lake Basins with Jordan	4.00	93.00	372.00
Wein, Jordan	5/30/2023	Block and shock attempt in Southwest corner of Crystal from 5-23	4.00	122.00	488.00
		Totals	14.00		1,460.00
		Total Labor			1,460.00
				Total this Task	\$1,460.00
				Total this Phase	\$1,460.00

Billing Limits	Current	Prior	To-Date
Total Billings	1,460.00	637.75	2,097.75
Limit			17,084.00
Remaining			14,986.25
		Total this Invoice	<u><u>\$1,460.00</u></u>



INVOICE

Invoice Number 2112068
Invoice Date July 31, 2023
Purchase Order --
Customer Number 165842
Project Number 227705633

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	Shingle Creek WMC Services		
Project Manager	Shoemaker, Todd E	Contract Upset	238,920.00
Current Invoice Total (USD)	16,763.83	Amount Billed to Date	182,848.86
		For Period Ending	July 21, 2023

Top Task	2023	2023 Technical Services
Low Task	2023.001	General Engineering

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Hyams, Aaron Robert	2.25	133.00	299.25
Kemmitt, Kathrine Lee (Katie)	8.00	142.00	1,136.00
Spector, Diane F	8.25	195.00	1,608.75
Thompson, Kathleen Anne (Katy)	2.00	195.00	390.00
Matthiesen, Edward Armin (Ed)	0.50	220.00	110.00
Shoemaker, Todd E	10.50	220.00	2,310.00
Subtotal Professional Services	<u>31.50</u>		<u>5,854.00</u>

Disbursements

Direct - Printing	0.68
Subtotal Disbursements	<u>0.68</u>

Low Task Subtotal **General Engineering** 5,854.68

Low Task 2023.002.08 SC2023-06 Project Libre

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Clapp, Lucas W	1.00	127.00	127.00
Shoemaker, Todd E	1.50	220.00	330.00
Subtotal Professional Services	<u>2.50</u>		<u>457.00</u>

Low Task Subtotal **SC2023-06 Project Libre** 457.00

Low Task 2023.002.09 SC2023-07 Project Black Bear



INVOICE

Invoice Number	2112068
Invoice Date	July 31, 2023
Purchase Order	-
Customer Number	165842
Project Number	227705633

Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Clapp, Lucas W	4.00	127.00	508.00
Subtotal Professional Services		<u>4.00</u>		<u>508.00</u>

Low Task Subtotal	SC2023-07 Project Black Bear	508.00
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Low Task	2023.002.98	General Project Reviews
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Spector, Diane F	0.75	195.00	146.25
Subtotal Professional Services		<u>0.75</u>		<u>146.25</u>

Low Task Subtotal	General Project Reviews	146.25
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Low Task	2023.002.99	WCA Project Reviews
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Kaster, Anthony R (Tony)	6.50	187.00	1,215.50
Subtotal Professional Services		<u>6.50</u>		<u>1,215.50</u>

Low Task Subtotal	WCA Project Reviews	1,215.50
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Low Task	2023.003	Routine Stream Monitoring
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Ramsey, Ellen J	11.75	115.00	1,351.25
	Doerr, Sylvia M	6.75	133.00	897.75
Subtotal Professional Services		<u>18.50</u>		<u>2,249.00</u>

Disbursements

	Direct - Testing & Lab Charges	429.80
Subtotal Disbursements		<u>429.80</u>

Low Task Subtotal	Routine Stream Monitoring	2,678.80
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Low Task	2023.004	Routine Lake Monitoring
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Professional Services

Invoice Number 2112068
Invoice Date July 31, 2023
Purchase Order --
Customer Number 165842
Project Number 227705633

Category/Employee	Current Hours	Rate	Current Amount
Ramsey, Ellen J	8.00	115.00	920.00
Paquin, Timothy Joel (Tim)	1.25	119.00	148.75
Stone, Alicia L (Ali)	12.25	133.00	1,629.25
Subtotal Professional Services	<u>21.50</u>		<u>2,698.00</u>

Disbursements	Amount
Direct - Testing & Lab Charges	250.60
Subtotal Disbursements	<u>250.60</u>

Low Task Subtotal **Routine Lake Monitoring** 2,948.60

Low Task 2023.005 **CAMP Monitoring**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Ramsey, Ellen J	4.50	115.00	517.50
Subtotal Professional Services	<u>4.50</u>		<u>517.50</u>

Low Task Subtotal **CAMP Monitoring** 517.50

Low Task 2023.009.01 **General Education Program**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	11.50	195.00	2,242.50
Subtotal Professional Services	<u>11.50</u>		<u>2,242.50</u>

SC - 1,121.25
 WM - 1,121.25

Low Task Subtotal **General Education Program** 2,242.50

Low Task 2023.009.02 **WMWA**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	1.00	195.00	195.00
Subtotal Professional Services	<u>1.00</u>		<u>195.00</u>

Low Task Subtotal **WMWA** 195.00

Top Task Subtotal 2023 Technical Services 16,763.83



INVOICE

Page 4 of 4

Invoice Number	2112068
Invoice Date	July 31, 2023
Purchase Order	---
Customer Number	165842
Project Number	227705633

Total Fees & Disbursements	16,763.83
INVOICE TOTAL (USD)	16,763.83

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number	2110895
Invoice Date	July 27, 2023
Purchase Order	—
Customer Number	165842
Project Number	227705747

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	Brookdale Park Shingle Creek Remeander Feasibility Study		
Project Manager	Harding, Sarah Ellen	Contract Upset	39,000.00
Current Invoice Total (USD)	5,850.28	Amount Billed to Date	26,203.51
		For Period Ending	July 21, 2023

Top Task	200	Professional Services	
Low Task	200.001	Data Collection & Review (desktop, site visit, sediment investigation, topo survey)	
Disbursements			
		Direct - Vehicle (mileage)	3.28
		Subtotal Disbursements	<u>3.28</u>
Low Task Subtotal		Data Collection & Review (desktop, site visit, sediment investigation, topo survey)	3.28

Low Task	200.002	Alternatives Evaluation and Basis of Design Memorandum	
Professional Services			
Category/Employee		Current Hours	Rate
			Current Amount
		Monk, Robert V (Rob)	2.00 157.00 314.00
		Harding, Sarah Ellen	15.75 172.00 2,709.00
		Matthiesen, Edward Armin (Ed)	1.50 220.00 330.00
		Shoemaker, Todd E	6.50 220.00 1,430.00
		Subtotal Professional Services	<u>25.75</u> <u>4,783.00</u>
Low Task Subtotal		Alternatives Evaluation and Basis of Design Memorandum	4,783.00

Low Task	200.003	Preliminary Drawings of Selected Alternative	
Professional Services			
Category/Employee		Current Hours	Rate
			Current Amount
		Fesenmaier, Mark Gregory	8.00 133.00 1,064.00
		Subtotal Professional Services	<u>8.00</u> <u>1,064.00</u>
Low Task Subtotal		Preliminary Drawings of Selected Alternative	1,064.00
Top Task Subtotal		Professional Services	5,850.28



INVOICE

Invoice Number	2110895
Invoice Date	July 27, 2023
Purchase Order	--
Customer Number	165842
Project Number	227705747

Total Fees & Disbursements	5,850.28
INVOICE TOTAL (USD)	<u>5,850.28</u>

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 2111744
Invoice Date July 28, 2023
Purchase Order ---
Customer Number 165842
Project Number 227701416

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	B001240-20-216: Crystal Lake Management Plan		
Project Manager	Spector, Diane F	Contract Upset	140,830.00
Current Invoice Total (USD)	355.00	Amount Billed to Date	128,083.88
		For Period Ending	July 21, 2023

Top Task	104	Semi-annual & Final Report
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Kemmitt, Kathrine Lee (Katie)	2.50	142.00	355.00
	Subtotal Professional Services	<u>2.50</u>		<u>355.00</u>

Top Task Subtotal	Semi-annual & Final Report	355.00
	Total Fees & Disbursements	<u>355.00</u>
	INVOICE TOTAL (USD)	355.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 2111743
Invoice Date July 28, 2023
Purchase Order —
Customer Number 165842
Project Number 227705219

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	Meadow Lake Management Plan Phase 2		
Project Manager	Spector, Diane F	Contract Upset	102,810.00
Current Invoice Total (USD)	142.00	Amount Billed to Date	49,456.86
		For Period Ending	July 21, 2023

Top Task	100	Professional Services		
Low Task	100.102	Monitoring and Data Gathering		
<u>Professional Services</u>				
Category/Employee		Current Hours	Rate	Current Amount
	Kemmitt, Kathrine Lee (Katie)	1.00	142.00	142.00
	Subtotal Professional Services	<u>1.00</u>		<u>142.00</u>
Low Task Subtotal	Monitoring and Data Gathering			142.00
Top Task Subtotal	Professional Services			142.00
	Total Fees & Disbursements			<u>142.00</u>
	INVOICE TOTAL (USD)			142.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 2110893
Invoice Date July 27, 2023
Purchase Order --
Customer Number 165842
Project Number 227705748

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	Shingle Creek Regional Trail Bank Stabilization & Fishery Improvement Feasibility Study		
Project Manager	Harding, Sarah Ellen	Contract Upset	25,000.00
Current Invoice Total (USD)	3,845.75	Amount Billed to Date	19,602.98
		For Period Ending	July 21, 2023

Top Task	200	Professional Services		
Low Task	200.002	Alternatives Evaluation and Technical Memorandum		
Professional Services				
Category/Employee			Current Hours	Rate
				Current Amount
		Monk, Robert V (Rob)	1.50	157.00
		Harding, Sarah Ellen	12.00	172.00
		Matthiesen, Edward Armin (Ed)	0.75	220.00
		Shoemaker, Todd E	2.50	220.00
		Subtotal Professional Services	<u>16.75</u>	<u>3,014.50</u>
Low Task Subtotal		Alternatives Evaluation and Technical Memorandum		3,014.50

Low Task	200.003	Preliminary Drawings of Selected Alternative		
Professional Services				
Category/Employee			Current Hours	Rate
				Current Amount
		Fesenmaier, Mark Gregory	6.25	133.00
		Subtotal Professional Services	<u>6.25</u>	<u>831.25</u>
Low Task Subtotal		Preliminary Drawings of Selected Alternative		831.25

Top Task Subtotal	Professional Services	3,845.75
Total Fees & Disbursements		<u>3,845.75</u>
INVOICE TOTAL (USD)		3,845.75

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 2112071
Invoice Date July 31, 2023
Purchase Order ---
Customer Number 165842
Project Number 227705750

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	Eagle Lake Subwatershed Assessment		
Project Manager	Shoemaker, Todd E	Contract Upset	55,000.00
Current Invoice Total (USD)	9,470.75	Amount Billed to Date	37,739.35
		For Period Ending	July 21, 2023

Top Task 100 **Professional Services**
Low Task 100.1 **PM & Coordination**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Tilman, Elizabeth (Lisa)	2.75	187.00	514.25
Shoemaker, Todd E	0.50	220.00	110.00
Subtotal Professional Services	<u>3.25</u>		<u>624.25</u>

Low Task Subtotal **PM & Coordination** 624.25

Low Task 100.3 **Existing Conditions**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Clapp, Lucas W	3.00	127.00	381.00
Subtotal Professional Services	<u>3.00</u>		<u>381.00</u>

Low Task Subtotal **Existing Conditions** 381.00

Low Task 100.4 **Internal Load & Aquatic Vegetation Evaluation**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Schafermeyer, Benjamin L (Ben)	5.00	127.00	635.00
Hyams, Aaron Robert	1.00	133.00	133.00
Kemmitt, Kathrine Lee (Katie)	0.50	142.00	71.00
Lofton, Dendy D	17.00	187.00	3,179.00
Subtotal Professional Services	<u>23.50</u>		<u>4,018.00</u>



INVOICE

Invoice Number 2112071
Invoice Date July 31, 2023
Purchase Order —
Customer Number 165842
Project Number 227705750

Low Task Subtotal **Internal Load & Aquatic Vegetation Evaluation** 4,018.00

Low Task 100.6 **Prioritization**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Reckmeyer, Madeline R (Maddie)	2.00	115.00	230.00
Clapp, Lucas W	12.00	127.00	1,524.00
Pesik, Joseph Richard (Joey)	11.75	133.00	1,562.75
Osterdyk, Eric J	1.00	149.00	149.00
Schroeher, Mark J	2.50	187.00	467.50
Tilman, Elizabeth (Lisa)	2.75	187.00	514.25
Subtotal Professional Services	32.00		4,447.50

Low Task Subtotal **Prioritization** 4,447.50

Top Task Subtotal Professional Services 9,470.75

Total Fees & Disbursements 9,470.75

INVOICE TOTAL (USD) **9,470.75**

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 2112072
Invoice Date July 31, 2023
Purchase Order —
Customer Number 165842
Project Number 227705751

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	Gaulke Pond Subwatershed Assessment Amendment		
Project Manager	Shoemaker, Todd E	Contract Upset	29,900.00
Current Invoice Total (USD)	1,070.50	Amount Billed to Date	25,459.64
		For Period Ending	July 21, 2023

Invoice ATTN: Andy Polzin

Top Task 100 **Professional Services**
Low Task 100.2 **Data Collection**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Fesenmaier, Mark Gregory	4.75	133.00	631.75
Subtotal Professional Services	<u>4.75</u>		<u>631.75</u>

Low Task Subtotal **Data Collection** 631.75

Low Task 100.5 **Prioritization**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Thompson, Kathleen Anne (Katy)	1.75	195.00	341.25
Subtotal Professional Services	<u>1.75</u>		<u>341.25</u>

Low Task Subtotal **Prioritization** 341.25

Low Task 100.6 **Conceptual Design**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Thompson, Kathleen Anne (Katy)	0.50	195.00	97.50
Subtotal Professional Services	<u>0.50</u>		<u>97.50</u>

Low Task Subtotal **Conceptual Design** 97.50



INVOICE

Invoice Number	2112072
Invoice Date	July 31, 2023
Purchase Order	--
Customer Number	165842
Project Number	227705751

Top Task Subtotal	Professional Services	1,070.50
Total Fees & Disbursements		1,070.50
INVOICE TOTAL (USD)		1,070.50

Due upon receipt or in accordance with terms of the contract



3235 Fernbrook Lane
Plymouth MN 55447

Shingle Creek / West Mississippi Watershed Management Commissions
3235 Fernbrook Lane
Plymouth, MN 55447

August 7, 2023

	Share	G/L	Shingle Creek			West Mississippi			Total Project Area	
			SC	WM		SC	WM	SC	WM	
Administrative		53001	70.00	-		70.00	-			
Administrative		53001	17.22	75.00	1,291.50	8.13	75.00	609.75		
Admin - Offsite		53001	80.00	-		80.00	-			
Administrative	70-30	53001	70.00	-		70.00	-			
Administrative	70-30	53001	31.66	75.00	1,662.15	75.00	712.35			
Admin - offsite	70-30	53001	2.02	80.00	113.12	80.00	48.48			
Office Support	70-30	53001	20.00	75.00	1,050.00	75.00	450.00			
Annual Storage Rental -.14/.11		53001	1.00	54.74	54.74	1.00	43.01	43.01		
Administration Reimbursables		53001	683.91	1.00	683.91	131.40	1.00	131.40	4,855.420	1,994.990
Bookkeeping		54022	70.00	-		70.00	-			
Bookkeeping		54022	5.17	75.00	387.75	2.24	75.00	168.00		
Audit Prep		54022	75.00	-		75.00	-	387.750	168.000	
Meal Expense	70-30	54001	405.00	1.00	283.50	1.00	121.50	283.500	121.500	
Project / WCA Reviews - Admin		53002	0.58	75.00	43.50	0.18	75.00	13.50		
Project / WCA Reviews -Reimbursables		53002	8.12	1.00	8.12	9.60	1.00	9.60	51.620	23.100
Website	50-50	57008	1.42	75.00	53.25	75.00	53.25			
Renew website domain, zoom	50-50	57008	60.00	1.00	30.00	1.00	30.00			
Education - Reimbursables	50-50	57007	1.00	-		1.00	-	83.250	83.250	
Engrg Support 4G Plan - Secre	70-30	53004	70.00	-		70.00	-			
Engineering Support - Admin		53004	3.44	75.00	258.00	75.00	-			
Engineering Support - Admin	70-30	53004	17.37	75.00	911.93	75.00	390.83			
Engineering Support - offsite	70-30	53004	1.55	80.00	86.80	80.00	37.20			
Engineering Support - Reimbursables		53004	134.96	1.00	134.96	52.24	1.00	52.24	1,391.685	480.27
Engineering Support - CIP Admin		53004	70.00	-		70.00	-			
Engineering Support - CIP Admin		53004	75.00	-		75.00	-			
Engineering Support - CIP Copies		53004	0.12	-		0.12	-			
Engineering Support - CIP -Secre	50-50	53004	70.00	-		70.00	-			
Engineering Support - CIP Admin	50-50	53004	4.37	75.00	163.88	75.00	163.88			
Engineering Support - CIP Reimbur	50-50	53004	1.00	-		1.00	-	163.88	163.88	
								7,217.10	3,034.985	

**West Mississippi Watershed Management Commission
Treasurer's Report**

	2023 Budget	July	August	%age YTD	2023 YTD
REVENUE					
Application Fees	20,000	2,200.00		33.50	6,700.00
Member Assessments	156,200			100.00	156,200.00
Interest & Dividend Income	100	5,400.64		33,492.54	33,492.54
Miscellaneous Income					-
<i>Transfer to (from) CIPs (see CIP Tracker page)</i>		80,409.37			80,409.37
<i>Transfer to (from) Grants</i>					27,500.00
<i>To (From) Reserve</i>					-
TOTAL REVENUE	176,300	88,010.01	-		304,301.91
EXPENSES					
ADMINISTRATION					
Administrative Services	32,000	2,199.40	1,994.99	56.51	18,083.69
Engineering Support	4,000	518.70	644.15	54.60	2,183.81
Project Reviews	1,500	63.36	23.10	18.57	278.57
ENGINEERING					
Administration	32,300	3,939.27	5,080.57	93.09	30,069.14
Grant Application Writing	0				-
Project Review	25,000	1,121.50	1,168.13	86.05	21,512.02
Highway 252/94 EIS Review					6,040.00
LEGAL					
Legal Services	5,000	439.17	353.17	44.97	2,248.64
MN DOT Scoping Project					537.50
MISCELLANEOUS					
Bookkeeping	3,400	300.75	168.00	88.57	3,011.25
Audit	6,500		4,700.00	72.31	4,700.00
Insurance & Bonding	3,000			96.73	2,902.00
Meeting Expense	3,000	142.80	121.50	60.78	1,823.46
PROJECTS					
Outfall and Stream Monitoring	24,600	201.25	1,213.00	15.06	3,704.20
Annual Monitoring Report	7,500			111.40	8,354.68
Water Quality Education					
Education	17,000	1,015.50	1,204.50	73.07	12,421.24
WMWA General Programs	5,000			60.00	3,000.00
WMWA Implementation/Watershed Prep	6,500			92.31	6,000.00
Rain Garden Workshops	0				-
Education Grants	0				-
Management Plan/Amendments	0				-
4th Generation Plan 2023					265.03
<i>Transfer to (from) CIPs</i>					-
<i>Transfer to (from) Grants</i>					-
<i>To (from) Reserves</i>					-
TOTAL OPERATING EXPENSE	176,300	9,941.70	16,671.11		127,135.23
CASH SUMMARY					
4M Fund Balance at 12/31/22					1,064,477.43
Plus Revenue Received to Date					343,216.86
Minus Claims Approved to Date					(167,538.04)
Minus Claims Presented Current Month					16,671.11
Fund Balance		1,273,498.27			1,256,827.36

**West Mississippi Watershed Management Commission
Treasurer's Report**

Claims Presented	General Ledger Acct No.	July	August		
					Total
Kennedy & Graven					353.17
Legal - General	52001		353.17		
Johnson & Company, Ltd. - Audit	54003		4,700.00		4,700.00
Stantec					8,582.95
General Engineering	51001		5,080.57		
Project Reviews	51002		1,168.13		
Highway 252/94 EIS Review	51001				
4th Generation Plan	51008				
Legal Boundary Update (4th Gen Plan)	51008				
Education Program	57008		1,121.25		
Stream and Outfall Monitoring	58011		1,213.00		
Annual Water Monitoring Report	58002				
Intensive BMPs	57011				
Judie Anderson's Secretarial Service					3,034.99
Administration	53001		1,994.99		
Bookkeeping / Audit Prep	54002		168.00		
Project Review Support	53002		23.10		
Meeting Expense - Previous Mo. Meal	54001		121.50		
Education Programs	57008		83.25		
Engineering Support	53004		480.27		
Engineering Support - 4th Gen Plan	53008				
Engineering Support - CIPs	53004		163.88		
Total Claims					16,671.11

Kennedy & Graven, Chartered

150 South Fifth Street, Suite 700
Minneapolis, MN 55402

(612) 337-9300

41-1225694

July 28, 2023

Statement No. 175819

West Mississippi Watershed Management Commission

JASS - Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447

Through June 30, 2023

WE405-00001 General

353.17

Total Current Billing: 353.17

I declare, under penalty of law, that this account, claim or demand is just and correct and that no part of it has been paid.

DocuSigned by:

Troy J. Gilchrist

67F85C8F-DF29444...
Signature of Claimant

Kennedy & Graven, Chartered

150 South Fifth Street, Suite 700
Minneapolis, MN 55402

West Mississippi Watershed

June 30, 2023

WE405-00001 General

Through June 30, 2023

For All Legal Services As Follows:

			Hours	Amount
6/8/2023	TJG	Prepare for, travel to, and attend meeting	1.60	344.00
Total Services:			\$	344.00

For All Disbursements As Follows:

6/8/2023	Troy J. Gilchrist - Mileage			9.17
Total Disbursements:			\$	9.17

Total Services and Disbursements: \$ 353.17

Johnson & Company, Ltd.
3255 Fernbrook Lane North
Minneapolis , MN 55447
(952) 525-9500

WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION
3235 FERNBROOK LANE N
PLYMOUTH, MN 55447

Client # : 4284

Invoice Number : 47706

Invoice Date : Friday, June 30, 2023

For Professional Services Rendered :

Preparation of report on audited financial statements for the year ended December 31,
2022.

4,700.00

Total Invoice Amount

\$4,700.00



INVOICE

Invoice Number	2112069
Invoice Date	July 31, 2023
Purchase Order	--
Customer Number	165866
Project Number	227705634

Bill To

West Mississippi Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

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

Project	West Mississippi WMC Services			
	Project Manager	Shoemaker, Todd E	Contract Upset	81,900.00
	Current Invoice Total (USD)	7,461.70	Amount Billed to Date	61,325.36
			For Period Ending	July 21, 2023

Top Task **2023** **2023 Technical Services**
Low Task **2023.001** **General Engineering**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Kemmitt, Kathrine Lee (Katie)	1.75	142.00	248.50
Spector, Diane F	8.50	195.00	1,657.50
Thompson, Kathleen Anne (Katy)	0.50	195.00	97.50
Shoemaker, Todd E	14.00	220.00	3,080.00
Subtotal Professional Services	<u>24.75</u>		<u>5,083.50</u>

Disbursements

Direct - Printing	(2.93)
Subtotal Disbursements	<u>(2.93)</u>

Low Task Subtotal **General Engineering** 5,080.57

Low Task **2023.002.05** **WM2023-03 Decatur Dr**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Clapp, Lucas W	0.75	127.00	95.25
Shoemaker, Todd E	2.75	220.00	605.00
Subtotal Professional Services	<u>3.50</u>		<u>700.25</u>

Disbursements

Direct - Printing	0.38
Subtotal Disbursements	<u>0.38</u>



INVOICE

Invoice Number	2112069
Invoice Date	July 31, 2023
Purchase Order	--
Customer Number	165866
Project Number	227705634

Low Task Subtotal	WM2023-03 Decatur Dr	700.63
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Low Task	2023.002.99	WCA
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Kaster, Anthony R (Tony)	2.50	187.00	467.50
Subtotal Professional Services	<u>2.50</u>		<u>467.50</u>

Low Task Subtotal	WCA	467.50
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Low Task	2023.003	Stream and Outfall Monitoring
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Ramsey, Ellen J	4.75	115.00	546.25
Doerr, Sylvia M	2.75	133.00	365.75
Subtotal Professional Services	<u>7.50</u>		<u>912.00</u>

Disbursements

Direct - Testing & Lab Charges	301.00
Subtotal Disbursements	<u>301.00</u>

Low Task Subtotal	Stream and Outfall Monitoring	1,213.00
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Top Task Subtotal	2023 Technical Services	7,461.70
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Total Fees & Disbursements	<u>7,461.70</u>
INVOICE TOTAL (USD)	7,461.70

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number	2112068
Invoice Date	July 31, 2023
Purchase Order	--
Customer Number	165842
Project Number	227705633

Category/Employee	Current Hours	Rate	Current Amount
Ramsey, Ellen J	8.00	115.00	920.00
Paquin, Timothy Joel (Tim)	1.25	119.00	148.75
Stone, Alicia L (Ali)	12.25	133.00	1,629.25
Subtotal Professional Services	<u>21.50</u>		<u>2,698.00</u>

Disbursements		
Direct - Testing & Lab Charges		250.60
Subtotal Disbursements		<u>250.60</u>

Low Task Subtotal **Routine Lake Monitoring** 2,948.60

Low Task 2023.005 **CAMP Monitoring**
Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Ramsey, Ellen J	4.50	115.00	517.50
Subtotal Professional Services	<u>4.50</u>		<u>517.50</u>

Low Task Subtotal **CAMP Monitoring** 517.50

Low Task 2023.009.01 **General Education Program**
Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	11.50	195.00	2,242.50
Subtotal Professional Services	<u>11.50</u>		<u>2,242.50</u>

SC - 1,121.25
 WM - 1,121.25

Low Task Subtotal **General Education Program** 2,242.50

Low Task 2023.009.02 **WMWA**
Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	1.00	195.00	195.00
Subtotal Professional Services	<u>1.00</u>		<u>195.00</u>

Low Task Subtotal **WMWA** 195.00

Top Task Subtotal 2023 Technical Services 16,763.83



3235 Fernbrook Lane
Plymouth MN 55447

Shingle Creek / West Mississippi Watershed Management Commissions
3235 Fernbrook Lane
Plymouth, MN 55447

August 7, 2023

	Share	G/L	Shingle Creek			West Mississippi			Total Project Area	
			SC	WM	Total	SC	WM	Total	SC	WM
Administrative		53001	70.00	-		70.00	-			
Administrative		53001	17.22	75.00	1,291.50	8.13	75.00	609.75		
Admin - Offsite		53001	80.00	-		80.00	-			
Administrative	70-30	53001	70.00	-		70.00	-			
Administrative	70-30	53001	31.66	75.00	1,662.15	75.00		712.35		
Admin - offsite	70-30	53001	2.02	80.00	113.12	80.00		48.48		
Office Support	70-30	53001	20.00	75.00	1,050.00	75.00		450.00		
Annual Storage Rental -.14/.11		53001	1.00	54.74	54.74	1.00	43.01	43.01		
Administration Reimbursables		53001	683.91	1.00	683.91	131.40	1.00	131.40	4,855.420	1,994.990
Bookkeeping		54022	70.00	-		70.00				
Bookkeeping		54022	5.17	75.00	387.75	2.24	75.00	168.00		
Audit Prep		54022	75.00	-		75.00	-	387.750	168.000	
Meal Expense	70-30	54001	405.00	1.00	283.50		1.00	121.50	283.500	121.500
Project / WCA Reviews - Admin		53002	0.58	75.00	43.50	0.18	75.00	13.50		
Project / WCA Reviews -Reimbursables		53002	8.12	1.00	8.12	9.60	1.00	9.60	51.620	23.100
Website	50-50	57008	1.42	75.00	53.25		75.00	53.25		
Renew website domain, zoom	50-50	57008	60.00	1.00	30.00		1.00	30.00		
Education - Reimbursables	50-50	57007		1.00	-		1.00		83.250	83.250
Engrg Support 4G Plan - Secre	70-30	53004		70.00	-		70.00			
Engineering Support - Admin		53004	3.44	75.00	258.00		75.00	-		
Engineering Support - Admin	70-30	53004	17.37	75.00	911.93		75.00	390.83		
Engineering Support - offsite	70-30	53004	1.55	80.00	86.80		80.00	37.20		
Engineering Support - Reimbursables		53004	134.96	1.00	134.96	52.24	1.00	52.24	1,391.685	480.27
Engineering Support - CIP Admin		53004		70.00	-		70.00			
Engineering Support - CIP Admin		53004		75.00	-		75.00			
Engineering Support - CIP Copies		53004		0.12	-		0.12			
Engineering Support - CIP -Secre	50-50	53004		70.00	-		70.00			
Engineering Support - CIP Admin	50-50	53004	4.37	75.00	163.88		75.00	163.88		
Engineering Support - CIP Reimbur	50-50	53004		1.00	-		1.00	-	163.88	163.88
									7,217.10	3,034.985

SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION**PROJECT REVIEW SC2023-07:** Project Black Bear**Owner:** C.S. McCrossan, Inc.**Address:** 7865 Jefferson Highway Maple Grove, MN 55369**Engineer:** Chad Lockwood**Company:** Ryan Companies**Address:** 533 South Third Street, Suite 100, Minneapolis, MN 55415**Phone:** 612-492-4000**Email:** chad.lockwood@ryancompanies.com**Purpose:** Construction of office building, lab, and extension of existing Revere Lane and 73rd Place on approximately 45 acres.**Location:** NW of Hwy 169 and I-94/694 Interchange (Figure 1).

- Exhibits:**
1. Project review application and project review fee of \$2500, dated 7/26/2023, received 7/26/2023.
 2. Project Black Bear Dev Stage PUD-Civil (Figure 2; C10-, C20-, C30-, C40-, C50-, C600, C601, C602), by Ryan Companies, dated 8/3/2023, received 8/3/2023.
 3. Project Black Bear-Stormwater Management Plan, by Ryan Companies, dated 8/3/2023, received 8/3/2023.
 4. Minnesota Wetland Conservation Act Notice of Decision, by City of Maple Grove, dated 8/8/23, recd. 8/8/23.

- Findings:**
1. The proposed project is the development of an office and lab with surrounding parking and the extension of 73rd Place and Revere Lane. The site is 44.8 acres. Following development, the site will be 80 percent impervious with 35.8 acres of impervious surface, an increase of approximately 30.0 acres.
 2. The complete project application was received on 7/26/23. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the 9/14/23 meeting. Sixty calendar-days expires on 9/24/23.
 3. Commission rules require the site to infiltrate 1.1 inches of runoff from new impervious area within 48 hours. The site is located within the Maple Grove Gravel Mining Area (GMA, Figure 3). In 2010, the Commission reviewed and approved a plan by the City of Maple Grove to obtain infiltration credits for this new development by constructing biofiltration basins adjacent to four existing regional stormwater ponds. Stormwater from areas that developed prior to the infiltration rule is directed to these basins. The Commission agreed that these new infiltration basins are adequate to provide regional infiltration for the 553 acres of "undeveloped area" (SC2010-04). The subject project is located within the "undeveloped area" and therefore meets Commission volume control treatment requirements.

To obtain sustainability credits, the applicant proposes to infiltrate runoff from new impervious area directed to the southwestern pond.

Table 1. Proposed volume retention through infiltration (ft³).

Volume Retention Required (ft³)	BMP	Volume Retention Provided (ft³)	1.1-inch Runoff (ft³)	2.5-inch Runoff (ft³)
None, site within GMA	Southeast Infiltration Basin	79,020	121,387	275,880
	Irrigation	Not quantified		
	Total	79,020 + irrigation volume		

- To comply with the Commission’s water quality treatment requirement, the site must provide treatment so there is no net increase in TP or TSS from pre- to post-development land cover.

Runoff from the site is proposed to be routed through multiple BMPs on site. The northern portion of the site is routed to a NURP pond. The southwestern portion is routed to an irrigation re-use pond that outlets to a pond with an infiltration bench that receives runoff from the rest of the site. The applicant has provided existing load calculations using the MPCA Loading calculator and a MIDS model for proposed conditions (table 2). The applicant meets Commission water quality treatment requirements.

Table 2. Water Quality Treatment Modeling Results.

	Existing	Proposed
Annual Phosphorus Load (lbs)	15.9	10.6
Annual TSS Load (lbs)	7,596	1,997

- Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year, 24-hour, and 100-year, 10-day critical storm event. Runoff from the site is routed through three stormwater ponds. The site discharge points are southeast to an existing storm pipe that flows to Eagle Lake and the south to the I-94 ditch. Design or model revisions are necessary to understand if rate control is met at the southwest discharge point. The applicant does not meet Commission rate control requirements.

Table 3. Runoff from site (cfs).

Drainage Area	2-year event		10-year event		100-year event		100-year 10-day event	
	Pre-	Post-	Pre-	Post-	Pre-	Post-	Pre-	Post-
I-94 Ditch	16.8	16.3	23.5	33.3	34.7	64.3	12.9	1.20
Libre	12.2	7.50	20.6	12.8	42.1	21.5	12.2	9.9

- The erosion control plan includes a rock construction entrance, perimeter silt fence/biolog, inlet protection, rip rap at inlets, slope checks, silt fence surrounding detention ponds/infiltration basins, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

SC2023-07: Project Black Bear

7. The National Wetlands Inventory identifies one wetland in the center of the site. The City of Maple Grove is the LGU for Wetland Conservation Act administration and applied for a no-loss application for this and other wetlands within the GMA. The Technical Evaluation Panel (TEP) reviewed the application and determined "...based on aerial photo review from 1940-2023 that the GMA undergoes extensive excavation, dewatering, stockpiling, and reclamation processes and that basins in the GMA historically and currently undergo conversion and manipulation and meet the definition of...'nonwetland'." The applicant meets Commission wetland requirements.
8. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.
9. There is no FEMA-regulated floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the high-water elevation of the detention ponds/infiltration basins according to Atlas 14 precipitation. The applicant meets Commission floodplain requirements.
10. The northwest corner of the site is in a Drinking Water Supply Management Area (DWSMA) but is outside of the Emergency Response Area. The applicant does not propose any infiltration within the DWSMA. The applicant meets Commission drinking water protection requirements.
11. A public hearing on the project was conducted on May 30, 2023 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.
12. A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Maple Grove was not provided.
13. A Project Review Fee of \$2500 has been received.

Recommendation: Approve subject to the following conditions:

- 1) Show that rate control is satisfied at all site discharge locations. Currently, it is not clear if rate control is satisfied at the southwest discharge location. Increase storage or pipe capacity to prevent model errors and show that rate control is satisfied.
- 2) Provide a complete O&M agreement between the applicant and the City of Maple Grove for all stormwater facilities on the project site.
- 3) Demonstrate by double ring infiltrometer or witness test that the site can meet the design infiltration rate of 0.8 inches/hour for the infiltration bench.

SC2023-07: Project Black Bear

Stantec Inc.
Engineers for the Commission

Todd Shoemaker, P.E.

8/7/2023

Figure 1. Site location.



Figure 2. Site grading plan.

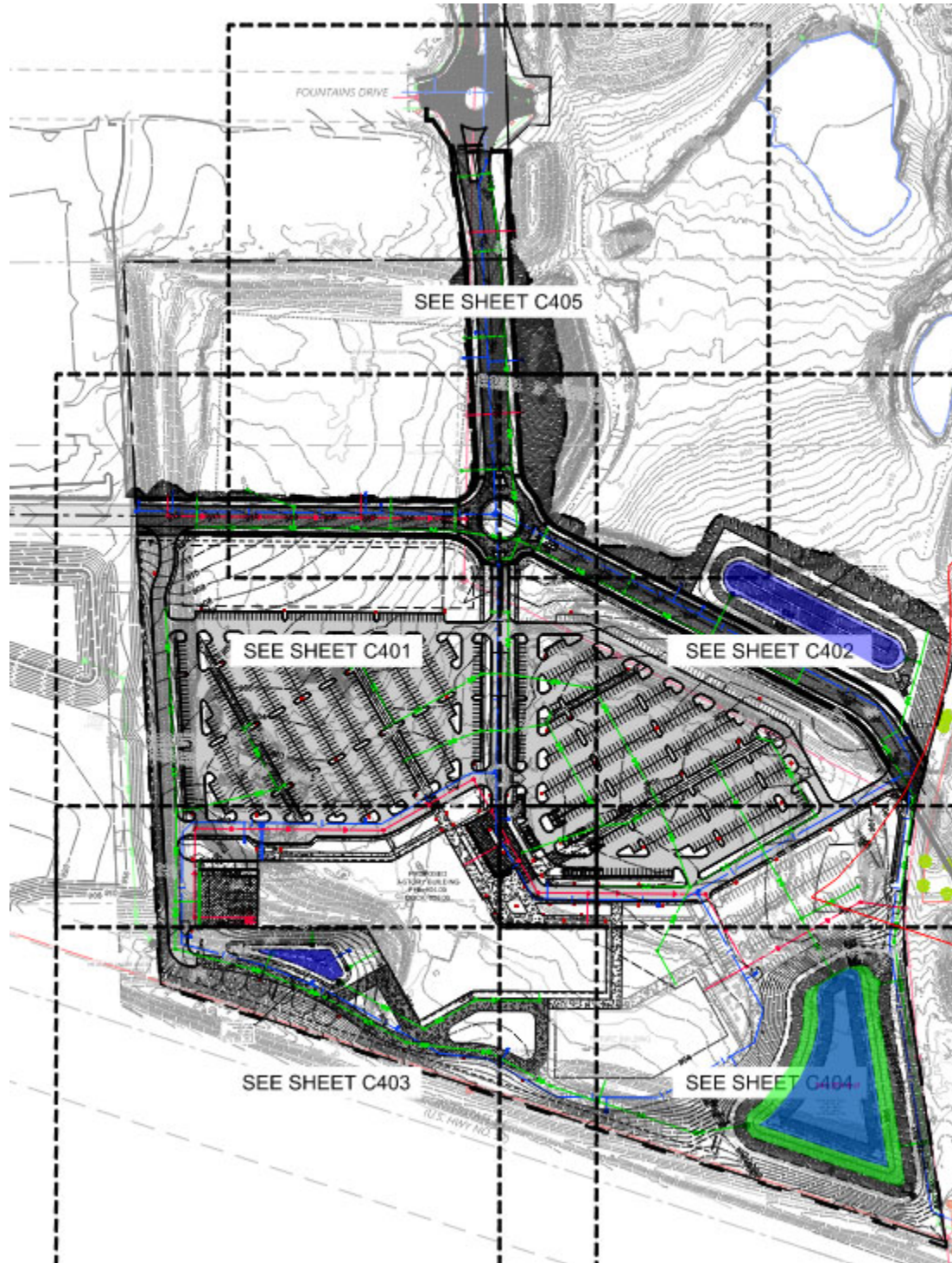
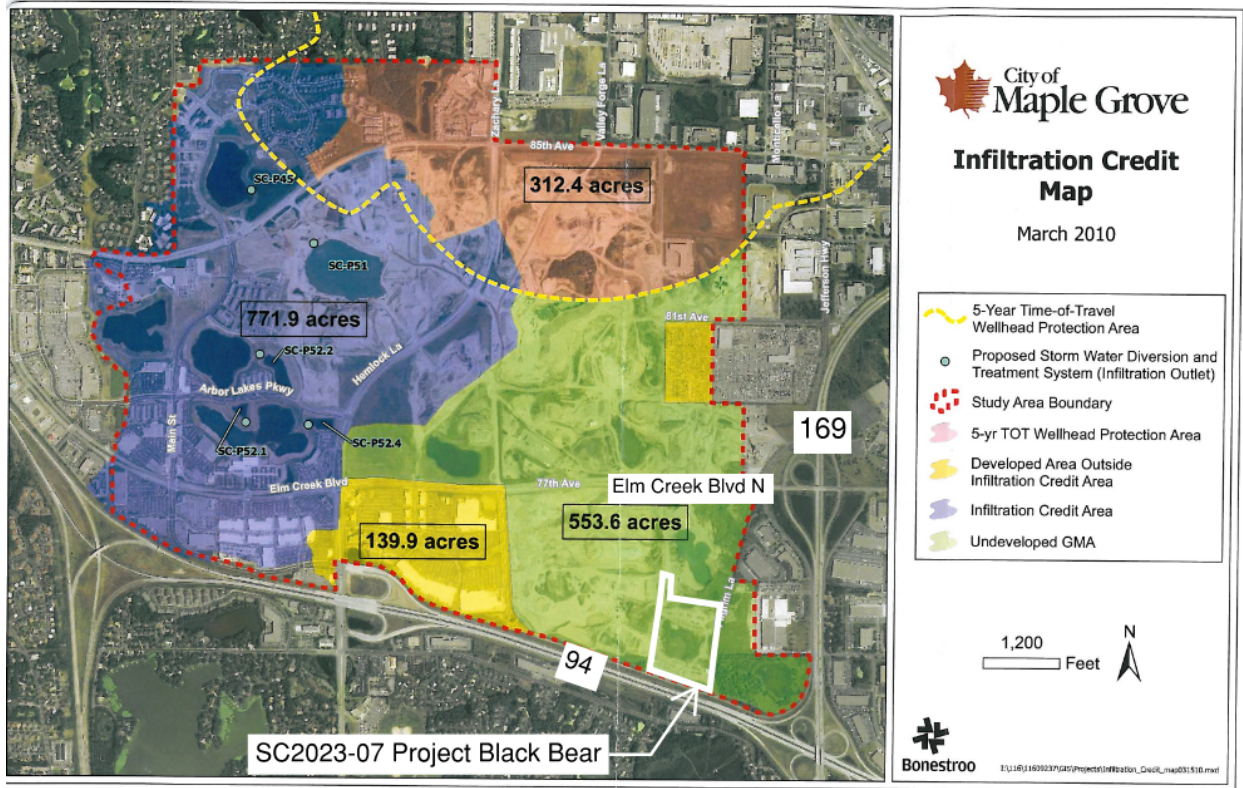


Figure 3. Site in Undeveloped GMA



To: Shingle Creek/West Mississippi WMO Commissioners

From: Diane Spector
Katie Kemmitt
Anne Wilkinson

Date: 8/9/23

Subject: Draft Clean Water Fund Projects and Practices Application – Eagle and Pike Management Plan

Recommended Commission Action	Review draft budget and text for FY2024 Clean Water Fund Projects and Practices application. Direct staff to submit final application.
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Eagle and Pike Lakes are both impaired for nutrients and have a published TMDL (2010). The TMDL called for 40-49% reductions in phosphorus loading to the lakes, and Stantec has determined that internal load treatment is necessary in order to meet the required reductions. The Commission has previously directed staff to draft a CWF grant application for internal loading treatments on both lakes. The grant application also includes aquatic invasive species (AIS) management, monitoring, public engagement, and project management. Below you will find a draft budget and grant application for the Clean Water Fund (CWF) Projects and Practices – Eagle and Pike Lakes Management Plan. Note that the application text is not complete but will be refined in coming weeks. Applications are due on August 24, 2023.

Stantec has conservatively estimated aluminum sulfate treatment costs on both lakes, in addition to the other management tasks described above. Total project cost is estimated to be \$677,489, with \$609,740 being requested from the CWF. Match requirements for the CWF Project and Practices grant fund is 10% of the grant request. The required match for this project from the SCWM WMC would be \$67,748.90.

Eagle Lake is the largest lake the Commission has done an alum application on. In addition, alum costs have risen in recent years and are based on the market at the time of contracting. Though project cost is high, the Commission has had great success implementing alum treatments and achieving improved water quality on watershed lakes. BWSR has increasingly been awarding CWF funds to large projects, thus we believe this application will be competitive. Please review the budget and text below. We appreciate your feedback.

Draft CWF Application Budget

	Env Sci Level 09	Engineer Level 09	Env Sci Level 06	Env Sci Level 07	Env Sci Level 12	Labor Hours	Labor Subtotal	Contracts	Direct Expenses	Total
<i>hourly rate</i>	\$142	\$142	\$119	\$127	\$172					
Public Engagement	40	40				80	\$11,360.00		\$500.00	\$11,860.00
AIS delineations and treatment	24		24	24		72	\$9,312.00	\$35,000.00	\$500.00	\$44,812.00
Monitoring	130	130	125	110		495	\$65,765.00	\$26,200.00	\$1,500.00	\$93,465.00
Internal Load Treatment		24		48	16	88	\$12,256.00	\$505,000.00	\$200.00	\$517,456.00
Project Management & Reporting	30	30			8	68	\$9,896.00			\$9,896.00
Totals						803	\$108,589.00	\$566,200.00	\$2,700.00	\$677,489.00

Grant Request	\$609,740.10
Match	\$67,748.90

Project Abstract*

This project would improve water quality and biotic integrity in Eagle and Pike Lakes in Maple Gove and Plymouth. Both of these lakes are nutrient-impaired waters, and the cities, other stakeholders, and the Shingle Creek WMC have worked since the TMDL was completed in 2011. Two alum treatments are proposed for each lake to seal the sediments and significantly reduce internal phosphorus load. An invasive curly-leaf pondweed will be treated to help restore and enhance the native submerged aquatic vegetation communities. Eagle Lake is a highly popular 290-acre recreational lake with an active lake association and public access. The 58-acre Pike Lake, which is connected to Eagle via a short channel and fringing wetlands, is a natural environment lake, and about two thirds of its shoreline is located within Eagle Lake Regional Park.

Proposed Measurable Outcomes*

164 pounds per year of phosphorus removed from Eagle Lake
143 pounds per year of phosphorus removed from Pike Lake

Does your organization have any active CWF competitive grants? If so, specify FY and percentage spent. Also, explain your organization's capacity (including available FTEs or contracted resources) to effectively implement additional Clean Water Fund grant dollars.

The Shingle Creek Watershed Management Commission currently has three CWF Projects & Practices grants:

Shingle Creek Connections II Stream Restoration (FY21, 99% complete) Project is awaiting final payment and project closeout

Palmer Creek Stream Stabilization (FY22, 75% complete). Project is being managed by City of Plymouth staff.

Meadow Lake Management Plan (FY21, 90% complete). Project elements are complete and undergoing final effectiveness monitoring.

The Shingle Creek Watershed Management Commission has no full-time technical staff, and instead contracts with Stantec Consulting Services as their technical advisor. Stantec is a global company with a local presence in Minnesota. Stantec has extensive experience managing projects such as this proposed CWF project and is ready to begin implementing as soon as grant dollars are awarded. Stantec has extensive experience contracting with internal load treatment applicators and would be able to coordinate with them for 2024 applications.

Water Resource: Identify the water resource the application is targeting for water quality protection or restoration.

Eagle (DOW 27011101) and Pike Lake (27011102) in Plymouth and Maple Grove, Minnesota.

Prioritization (Relationship to Plan): Question 1. (18 points): (A) Describe why the water resource was identified in the plan as a priority resource., identify the specific water management plan reference by plan organization (if different from the applicant), plan title, section, and page number.

The Shingle Creek and West Mississippi Watershed Management Commissions (SCWM WMC) adopted their Fourth Generation Management Plan (Plan) in May 2023. The Plan has a renewed focus on improving impaired waters in the watershed, with a focus on Eagle and Pike Lakes. Eagle and Pike internal load treatments were identified as a Capital Improvement Project in the Plan.

Prioritization (Relationship to Plan): Question 1, continued: (B) In addition to the plan citation, provide a brief narrative description that explains whether this application fully or partially accomplishes the referenced activity.

The proposed alum treatment partially accomplishes the TMDL goals for Eagle and Pike Lakes. An estimated ____% of the total phosphorus load reductions required in the lakes will be completed through internal load treatments; however, watershed reductions will also be needed to meet the TMDL goals and ensure long-term water quality improvements. Shingle Creek WMC will have a complete Eagle Lake Subwatershed Assessment by October 2023, which will identify several opportunities for watershed BMPs. The WMC, in partnership with the City of Maple Grove, is committed to constructing BMPs in the watershed following the report publication.

Prioritization (Relationship to Plan): Question 1, continued: (C) Provide weblinks to all referenced plans.

http://www.shinglecreek.org/uploads/5/7/7/6/57762663/fourth_generation_plan_document_final_90-day_review_.pdf

Prioritization (Relationship to Plan): Question 2. (2 points): (A) Describe how the resource of concern aligns with at least one of the statewide priorities referenced in the Nonpoint Priority Funding Plan (also referenced in the “Projects and Practices” section of the RFP). (B) Describe the public benefits resulting from this proposal from both a local and state perspective.

A). Management of Eagle and Pike Lakes aligns with the statewide priority from the Nonpoint Priority Funding Plan: Restore those waters that are closest to meeting state water quality standards.

B).

Targeting: Question 3. (15 points): Describe the methods used to identify, inventory, and target the root cause (most critical pollution source(s) or threat(s)). Describe any related additional targeting efforts that will be completed prior to installing the projects or practices identified in this proposal.

Extensive work has been done to identify nutrient sources to Eagle and Pike Lakes. The Cedar Island, Pike, and Eagle Lakes Nutrient TMDL was published in 2010. A review of the original TMDL was done in 2018 and included updated water quality and sediment data. The TMDL and TMDL Review identified aquatic invasive species (AIS) management and internal load management as beneficial management actions for the watershed. A Pike Lake Subwatershed Assessment (SWA) was completed in 2017 and identified 20 potential BMPs to reduce watershed phosphorus loads by 49 pounds per year if all BMPs were implemented.

The cities of Maple Grove and Plymouth received a CWF grant and are completing restoration projects along Pike Creek to reduce nutrient and sediment load contributed by channel erosion.

The Cedar Island Internal Load study is currently being completed by a consultant, as is the Eagle Lake SWA.

Combined, all of these studies have identified Eagle and Pike Lakes as priorities for water quality improvements.

[Cedar Island, Pike, and Eagle Lakes Nutrient TMDL Implementation Plan \(state.mn.us\)](http://www.shinglecreek.org/uploads/5/7/7/6/57762663/pike_eagle_and_cedar_island_5-year_tmdl_review_final.pdf)

http://www.shinglecreek.org/uploads/5/7/7/6/57762663/pike_eagle_and_cedar_island_5-year_tmdl_review_final.pdf

http://www.shinglecreek.org/uploads/5/7/7/6/57762663/pike_lake_subwatershed_assessment_and_appendix.pdf

Targeting: Question 4. (10 points): How does this proposal fit with complementary work that you and your partners are implementing to achieve the goal(s) for the priority water resource(s) of concern? Describe the comprehensive management approach to this water resource(s) with examples such as: other financial assistance or incentive programs, easements, regulatory

enforcement, or community engagement activities that are directly or indirectly related to this proposal.

The cities of Maple Grove and Plymouth are actively implementing numerous structural and nonstructural practices to reduce watershed load, including enhanced and more frequent street sweeping, opportunistic projects, and enhanced education and outreach to residential properties. While the contributing area to the lakes is mostly fully developed, the Commission and cities do have regulatory controls in place to require installation of BMPs with development and redevelopment.

Measurable Outcomes and Project Impact: Question 5. (5 points): (A) What is the primary pollutant(s) this application specifically addresses? (B) Has a pollutant reduction goal been set (via TMDL or other study) in relation to the pollutant(s) or the water resource that is the subject of this application? If so, please state that goal (as both an annual pollution reduction AND overall percentage reduction, not as an in-stream or in-lake concentration number). (C) If no pollutant reduction goal has been set, describe the water quality trends or risks associated with the water resource or other management goals that have been established. (D) For protection projects, indicate measurable outputs such as acres of protected land, number of potential contaminant sources removed or managed, etc.

- A) The primary pollutant addressed by the proposed management is phosphorus. The Cedar Island, Pike, and Eagle Lakes Nutrient TMDL Implementation Plan written in 2010 states Water quality is eutrophic and moderately degraded in both lakes, with average Carlson's Trophic Status Index (TSI) of 68 for Pike and 59 for Eagle. A TSI value of less than 57 is generally regarded as suitable water quality for swimming. Eagle Lake is considered moderately impaired while Pike are severely impaired. All experience late summer algal blooms.
- B) The total phosphorus load reduction required by the TMDL is XX and XX lbs/yr for Eagle and Pike lakes, respectively. The total phosphorus load is XX lbs/yr and XX lbs/yr to Eagle and Pike lakes, respectively.

[Cedar Island, Pike, and Eagle Lakes Nutrient TMDL Implementation Plan \(state.mn.us\)](#)

Measurable Outcomes and Project Impact: Question 6. (10 points): (A) What portion of the water quality goal will be achieved through this application? Where applicable, identify the annual reduction in pollutant(s) that will be achieved or avoided for the water resource if this project is completed. (B) Describe the effects this application will have on the root cause of the issue it will address (most critical pollution source(s) or threat(s)).

- A) The phosphorus budget for Eagle Lake shows XX% of the annual phosphorus load or XX lbs/yr is from internal loading. The proposed alum treatment on Eagle Lake will reduce the internal load by 75% or XX lbs/yr. The proposed treatment will meet XX% of the annual P reduction outlined in the TMDL. The phosphorus budget for Pike Lake shows XX% of the annual phosphorus load or XX lbs/yr is from internal loading. The proposed alum treatment on Pike Lake will reduce the internal load by 75% or XX lbs/yr. The proposed treatment will meet XX% of the annual P reduction outlined in the TMDL.
- B) The proposed alum treatment directly reduces the pollutant of concern by removing 75% of the internal load phosphorus source. The alum treatment works to directly reduce phosphorus by binding soluble phosphorus released from the sediment; once it is bound to the alum, it is permanently insoluble and no longer biologically available. The reduction of phosphorus will reduce eutrophication, help meet the water quality goal, improve the TSI to improve conditions for recreation, reduce drivers for the lakes frequent summer algal blooms.

Measurable Outcomes and Project Impact: Question 7. (5 points): If the project will have secondary benefits, specifically describe, (quantify if possible), those benefits. Examples: hydrologic benefits, climate resiliency, enhancement of aquatic and terrestrial wildlife species,

groundwater protection, enhancement of pollinator populations, or protection of rare and/or native species.

The reduction of eutrophication and algal blooms can lead to changes of trophic state. Reducing algal turbidity promotes submerged aquatic vegetation and more diverse phytoplankton communities. These improvements at the base of the food chain promote diverse and healthy populations of aquatic life at all trophic levels.

Cost Effectiveness and Feasibility: Question 8. (15 points): (A) Describe why the proposed project(s) in this application are considered to be the most cost effective and feasible means to attain water quality improvement or protection benefits to achieve or maintain water quality goals. Has any analysis been conducted to help substantiate this determination? Discuss why alternative practices were not selected. Factors to consider include, but are not limited to: BMP effectiveness, timing, site feasibility, practicality, and public acceptance. (B) If your application is proposing to use incentives above and beyond payments for practice costs, please describe rates, duration of payments and the rationale for the incentives' cost effectiveness. Note: For in-lake projects such as alum treatments or carp management, please refer to the feasibility study or series of studies that accompanies the grant application to assess alternatives and relative cost effectiveness. Please attach feasibility study to your application in eLINK.

An internal load treatment feasibility study has been completed for Eagle and Pike Lakes and is attached to this proposal. A separate internal load treatment feasibility study for the tributary Cedar Island Lake is underway and expected to be completed Fall 2023. Eagle and Pike Lakes have a developed watershed with limited feasible opportunities for watershed BMPs to achieve the lakes' water quality goals without internal load treatment. Internal load treatment will be necessary for the lake to reach its water quality goals.

The Commission has successfully used alum applications on two other lakes in the watershed, Bass and Pomerleau Lakes, that now meet water quality standards and are scheduled to be Delisted in 2024. Most recently, the Commission has used alum to treat Chrystal Lake in Robbinsdale and Meadow Lake in New Hope, both of which now enjoy significantly impaired water quality. Based on this experience with four lakes, we are confident that following treatment Eagle Lake will meet the state water quality standard.

Project Readiness: Question 9. (10 points): a) What steps have been taken or are expected to ensure that project implementation can begin soon after the grant award? b) Describe general environmental review and permitting needs required by the project (list if needed). c) Also, describe any discussions with landowners, status of agreements/contracts, contingency plans, and other elements essential to project implementation. d) What activities, if any proposed, will accompany your project(s) that will communicate the need, benefits, and long-term impacts to your local community? This should go above and beyond the standard newsletters, signs and press releases.

The Shingle Creek WMC has completed internal load treatments on four lakes in the watershed and is ready to begin work on the project immediately after the grant is awarded. An internal load feasibility study has already been completed, and the necessary internal loading treatment calculations are done. No permitting is required for internal load treatments, but the Watershed understand that they must send a Letter of Intent to the MPCA ahead of treatment. Permits will be obtained for each water body for aquatic vegetation management via herbicide treatment and mechanical removal. The WMC routinely works with the DNR to permit these types of treatments.

The Commission is dedicated to their education and outreach efforts. In addition to their regular website and Facebook posts, collaboration with local news stations, and a sign posted at the Eagle Lake boat launch explaining the lake management plan, the Commission plans to partner with entities such as the City of Maple Grove and the Department of Natural Resources to host a community event celebrating Eagle and Pike Lakes.

Question 10. (5 points): Describe how the budget categories support the activities in your application. Please provide adequate Activity Category detail in your budget table to support your application and show project readiness (see eLINK Activity Categories).

The budget includes funding for technical services that includes the following: preparation of final bid documents, assistance with bidding and application observation services; collection of two sets of sediment cores, one following the first treatment to gauge progress and a final set after the second treatment to gauge effectiveness; interim water quality monitoring to determine progress; SAV management as necessary following alim treatment; and grant reporting. The Urban Stormwater Practices line item is the cost of the two alum applications on both lakes.

Stream Restoration Projects Only: The Legacy Fund Restoration Evaluation Report recommends early coordination and comprehensive planning for stream projects. Describe the expertise of your team (i.e. geomorphology, hydrology, plant and animal ecology, construction site management, and engineering) and early coordination efforts you have been part of to ensure project success.

Stream Restoration Projects Only: Describe how your organization will provide financial assurance that operations and maintenance funds are available if needed.

The Constitutional Amendment requires that Amendment funding must not substitute traditional state funding. Briefly describe how this project will provide water quality benefits to the State of Minnesota without substituting existing funding.

The grant funds would allow the Commission to treat both lakes concurrently rather than staggering applications.

Please enter the dollar amount requested for CWP Loans. If you are not interested, indicate "not applicable".

Not applicable

Please enter the dollar amount requested for Ag BMP Loan Program. If you are not interested, indicate "not applicable".

Not applicable

[Treatment appears to curb Meadow Lake's curly-leaf infestation | Local News | hometownsource.com](https://www.hometownsource.com/sun_post/news/local/treatment-appears-to-curb-meadow-lake-s-curly-leaf-infestation/article_6c01fe9a-2fcf-11ee-8ad0-4fb5dd4c3b02.html)
https://www.hometownsource.com/sun_post/news/local/treatment-appears-to-curb-meadow-lake-s-curly-leaf-infestation/article_6c01fe9a-2fcf-11ee-8ad0-4fb5dd4c3b02.html

Treatment appears to curb Meadow Lake's curly-leaf infestation

Anja Wuolu

Sun Post

Aug 3, 2023

Meadow Lake, a 12-acre lake no deeper than four feet is in New Hope, has been described by local watershed officials as having "poor water quality and low biotic integrity." However, some have been taking steps to improve it. Two of the people working to take care of this lake are Nick Macklem, stormwater specialist and project coordinator for the city of New Hope and Katie Kemmit, Environmental Scientist from Stantec, an engineering company.

Kemmit is one of the scientists asked by the Shingle Creek and West Mississippi watershed management commissions to take a look at the lake and come up with solutions.

Macklem coordinates other people in the city to implement Kemmit's suggestions.

Kemmit said water quality issues at the lake are not new.

"Meadow Lake in New Hope is impaired for nutrients, so it's listed on the state's impaired waters list, and has been for some years now," Kemmit said.

Kemmit said the goal is for Meadow Lake to be filled with native plants like coontail, sago pondweed, Canadian waterweed, duckweed, and chara. Kemmit described the small lake as a "wetland turned stormwater pond."

In 2021, Meadow Lake was found to be full of fathead minnows and curly-leaf pondweed, both of which were invasive and detrimental to the lake's health.

These minnows, Kemmit says, "root around, and they forage in the lake sediment and then can release phosphorus in the water," fueling algae blooms. The algae blooms make the water less clear, creating a hostile environment for vegetation.

Curly-leaf pondweed, an invasive species, has a different growing season than Minnesotan aquatic plants.

"It grows in the very early season, under ice, before native plants have had a chance to start growing," Kemmit said. "It kind of takes over, and by the time the native plants try to start growing, curly-leaf is already way ahead."

Curly-leaf pondweed then dies early. When the plants break down, they release phosphorus into the water, again fueling algae blooms. Kemmit said although lakes with a monoculture of curly-leaf are better than lakes void of life, native plants are better for the ecosystem.

[Treatment appears to curb Meadow Lake's curly-leaf infestation | Local News | hometownsource.com](https://www.hometownsource.com/sun_post/news/local/treatment-appears-to-curb-meadow-lake-s-curly-leaf-infestation/article_6c01fe9a-2fcf-11ee-8ad0-4fb5dd4c3b02.html)
https://www.hometownsource.com/sun_post/news/local/treatment-appears-to-curb-meadow-lake-s-curly-leaf-infestation/article_6c01fe9a-2fcf-11ee-8ad0-4fb5dd4c3b02.html

In November of 2021, a pump was used to drain almost all of the lake's water, leaving just a few inches. In spring of 2022, the lake naturally refilled. This time, the minnows were gone. Macklem said he hasn't seen any minnows since.

In 2022, water quality had improved, but still wasn't great. There was still a lot of curly-leaf pondweed. In spring of 2023, water caretakers on a pontoon put liquid alum in the lake, to remove phosphorus and prevent algae blooms.

"The chemical that you put into the water reacts with phosphate and it holds it pretty indefinitely and settles to the lake bottom," Kemmit said. "So it essentially removes phosphate from the water."

Macklem said the treatment doesn't have many side effects.

"There shouldn't be a major impact to native species, and alum was originally used for water treatment plants. It's been proven to be safe to humans and wildlife," Macklem said.

There was also some herbicide applied to the lake area this spring. Although the chemicals cannot specifically target one plant or another, by treating Meadow Lake early, the curly-leaf pondweed was held back. Native plants, which hadn't woken up yet for spring, were less harmed.

Official data from the scientists working for the management commissions won't be released until next spring. Anecdotally, Macklem said he's observed the lake to look pretty good so far; no algae blooms have been reported.

People are welcome to visit Meadow Lake Park, 8400 E. Meadow Lake Road, New Hope. Macklem said although the body of water is too shallow to swim in, people enjoy canoeing and hanging out alongside the water. Kemmit said residents have reported seeing turtles, beavers, and birds enjoying the water as well.

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