


Shingle Creek Watershed Management Commission - 2018 Treasurer's Report

		2018 Budget	Jan 2019	Feb 2019	%age YTD	2018 YTD
REVENUE	%age					
Application Fees		22,000	1,100.00		105.45	23,200.00
Blue Line Extension		2,000			-	-
Assessments		348,710			100.00	348,710.00
Interest and Dividends		1,000	2,120.18		2,263.70	22,637.03
Education Reimbursement						16,334.07
Rain Garden Workshops		6,000			-	-
<i>Transfer to (from) Management Plans (see following pages)</i>						-
<i>Transfer to (from) Projects (see following pages)</i>						-
<i>Transfer to (from) Grants (see following pages)</i>			-	-		231,999.21
<i>Transfer to (from) CIPs</i>			598.74			157,440.80
<i>Transfer to (from) Closed Projects Account</i>						-
TOTAL REVENUE		379,710	3,818.92			800,321.11
EXPENSES			2018 Activity			
ADMINISTRATION						
Administrative Services		71,000	4,567.23	4,430.60	95.33	67,686.66
Engineering Support		12,500	1,142.12	1,479.98	111.39	13,923.54
Project Reviews/WCA-Incl Blue Line Ext.		1,000	28.50	145.08	128.37	1,283.68
ENGINEERING						
Administration		60,000	1,307.40	6,702.64	117.11	70,266.75
Grant Application Writing		10,000		843.46	113.82	11,381.96
Project Reviews/WCA		37,000	5,004.16	4,281.50	183.39	67,853.86
Blue Line Extension		2,000				1,273.25
Flood Modeling and Mapping			695.30	6,987.40		7,925.20
TMDL 5 Year Reviews/CIP Engineering		12,000		77.40	100.05	12,006.50
LEGAL - Legal Services		7,000	303.95	622.35	71.64	5,015.05
MISCELLANEOUS						
Bookkeeping		5,500	350.40	350.34	120.54	6,629.55
Audit		5,000			120.00	6,000.00
Insurance & Bonding		3,100			82.71	2,564.00
Meeting Expense		4,100	409.23		109.60	4,493.54
Meeting Expense 2019			383.51			383.51
PROGRAMS						
Citizen Assisted Lake Monitoring (CAMP)		3,800			-	-
Stream Monitoring		35,210	4,748.12	1,595.04	123.12	43,348.81
Stream Biomonitoring		6,000				-
Volunteer Stream Monitoring		2,000	2,000.00		100.00	2,000.00
Intensive Lake TMDL Monitoring		22,000	163.80	581.90	99.07	21,795.38
Annual Monitoring Report		14,000		3,633.21	126.93	17,770.41
Water Quality Education						
Education Program		13,000	733.80		100.36	13,046.71
Education Program 2019			500.00	1,336.08		1,836.08
WMWA Ed/Watershed Prep		4,500	833.48		324.93	14,621.70
WMWA General Programs		6,000	981.61	998.42	215.33	12,919.97
WMWA Special Projects		2,000	360.00	469.23	237.28	4,745.57
Rain Garden Workshops		8,000			146.21	11,697.00
Education Grants		2,000			-	-
Contribution to 4th Generation Plan		7,000				-
DO Aeration System Operations		3,000				
<i>Transfer to (from) Management Plans (see following pages)</i>			152.10			1,958.56
<i>Transfer to (from) Projects (see following pages)</i>						29,360.69
<i>Transfer to (from) Grants (see following pages)</i>			7,690.64	15,591.99		181,988.86
<i>Transfer to (from) CIPs</i>				50,000.00		394,711.92
<i>Transfer to (from) Closed Projects Account</i>						5,650.47
TOTAL OPERATING EXPENSE		358,710	32,355.35	100,126.62		1,036,139.18
CASH SUMMARY						
4M Fund Balance at 12/31/17						1,271,592.17
Plus Revenue Received 2018 to date						823,812.55
Minus Claims Approved to Date						(961,397.39)
Minus Claims Presented Current Month						(100,126.62)
Fund Balance			1,133,929.93			1,033,880.71

Shingle Creek Watershed Management Commission - 2018 Treasurer's Report

Claims Presented February 14, 2019	General Ledger Acct No	January	February	Total
Kennedy & Graven				741.75
Legal - General	52001		622.35	
Legal - Twin Lake Carp Mgt	70723		119.40	
Blue Thumb - Partner Contribution 2019	57008		500.00	500.00
City of Robbinsdale - Infiltration Chamber Cost Share	70811		50,000.00	50,000.00
State Register	53001		95.00	95.00
Lawn Chair Gardener - WMWA Media	57010		469.23	469.23
Mary Amsden - WMWA Ed Services	57011			-
Mary Amsden - WMWA Ed Reimbursement	57012			
Sharon Meister - WMWA Ed Services	57011			-
Sharon Meister - WMWA Ed Reimbursement	57012			
Wenck Associates				41,341.04
General Engineering	51001		6,702.64	
Grant Applica/Research	51005		843.46	
Project Reviews	51002		4,281.50	
Blue Line Extension (Light Rail Project - BLRT)	51009			
Flood Modeling and Mapping	51015		6,987.40	
Plan Amendment	51007			
Stream Monitoring	56004		1,595.04	
Intensive Lake TMDL Monitoring	56010		581.90	
TMDL 5-Year Reviews	56011		77.40	
Education	57008		789.90	
Education - WMWA	57009		376.00	
Annual Water Quality Report	58002		3,633.21	
Bass/Pomerleau Alum Prelim Design	58027			
Twin Lake Carp Management Grant	70723		5,188.59	
BioChar Project Grant	70725		2,130.30	
Minneapolis SWA Grant	70726		7,919.10	
Bass/Pomerleau Alum Trmt Grant	70727		234.60	
Judie Anderson's Secretarial Service				622.42
WMWA General Expense	57009		622.42	
WMWA Educators/WS Prep	57011			
Judie Anderson's Secretarial Service				6,357.18
Administration	53001		4,335.60	
Project and WCA Review Support	53002		145.08	
Bookkeeping	54002		350.34	
Hydraulic/Hydrologic Modeling Updates	53005			
Education Programs	57008		46.18	
Engineering Support	53004		1,479.98	
Engineering Support - CIP General	53004			
Engineering Support - Plan Amendment	53007			
Pike Lake SWA	58026			
Bass/Pomerleau Alum Prelim Design	58027			
Eng Support - Twin Lake Carp Mgt CIP	70809			
Total Claims				100,126.62
				
Judie A Anderson, Deputy Treasurer				

Shingle Creek Watershed Management Commission - 2018 Treasurer's Report

	2018 Budget	Jan 2019	Feb 2019	%age YTD	YTD
MANAGEMENT PLANS					
Third Generation Management Plan					-
Minor Plan Amendment	1,000	152.10			1,451.06
Subwatershed Assessment					
Pike Lake Subwatershed Assmt	20,000			2.54	507.50
TOTAL MGMT PLANS (transfer (to) from Op Budget)	21,000	152.10	-		1,958.56
PROJECTS					
Bass Lake/Pomerleau Alum Prelim Design					29,360.69
TOTAL PROJECTS (transfer (to) from Op Budget)	0	-	-		29,360.69
	Total Grant	Jan 2019	Feb 2019	%age YTD	YTD
GRANTS					
Twin Lake Carp Management Grant	100,000				
Revenue					20,472.94
Expense		4,643.74	5,307.99		82,318.78
Balance		(4,643.74)	(5,307.99)		(61,845.84)
BioChar Project Grant	154,300				
Revenue					26,220.27
Expense		1,116.40	2,130.30		47,010.69
Balance		(1,116.40)	(2,130.30)		(20,790.42)
Becker Park Grant	725,000				
Revenue					-
Expense					378.10
Balance		-	-		(378.10)
Minneapolis Subwatershed Assmt Grant	38,000				
Revenue					-
Expense		1,930.50	7,919.10		29,148.90
Balance		(1,930.50)	(7,919.10)		(29,148.90)
Bass/Pomerleau Lakes Internal Load Reduction	267,040				
Revenue					133,520.00
Expense			234.60		15,459.50
Balance		-	(234.60)		118,060.50
BWSR Watershed Based Funding					
Revenue					51,786.00
Expense					-
Balance					51,786.00
TOTAL GRANTS					
Revenue		-	-		231,999.21
Expense		7,690.64	15,591.99		181,988.86
Balance		(7,690.64)	(15,591.99)		50,010.35

**Shingle Creek Watershed Management Commission 2018 Treasurer's Report -
Capital Improvement Project Tracking**

CIPs	Amount	%age	2009 - 2014	2015	2016	2017 TOTAL	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Jan 2019 (2018)	Feb 2019 (2018)	2018 TOTAL	GRAND TOTAL	
2017-01 City Cost Share BMP Projects	106,050	66.67																					
Revenue						-							54,798.21					49,731.65	399.18		104,929.04	104,929.04	
Expense						128.47															-	128.47	
Balance						(128.47)	-	-	-	-	-	-	54,798.21	-	-	-	-	49,731.65	399.18	-	104,929.04	104,800.57	
2017-03 Private Cost Share BMP Projects	53,025	33.33																					
Revenue						-							27,395.00					24,862.09	199.56		52,456.65	52,456.65	
Expense						128.47					1,293.50										1,293.50	1,421.97	
Balance						(128.47)	-	-	-	-	(1,293.50)	-	27,395.00	-	-	-	-	24,862.09	199.56	-	51,163.15	51,034.68	
2018-01 City Cost Share BMP Projects																							
Revenue						-															-	-	
Expense						-								124.04							124.04	124.04	
Payment to City						-												50,000.00			50,000.00	50,000.00	
Balance						-	-	-	-	-	-	-	-	(124.04)	-	-	-	(50,000.00)	-	-	(50,124.04)	(124.04)	
2018-02 Private Cost Share BMP Projects																							
Revenue						-															-	-	
Expense						-								124.04							124.04	124.04	
Balance						-	-	-	-	-	-	-	-	(124.04)	-	-	-	-	-	-	(124.04)	(124.04)	
2018-03 Becker Park Infiltration																							
Revenue						-															-	-	
Expense						-								124.04							124.04	124.04	
Payment to City						-												47,451.66			47,451.66	47,451.66	
Balance						-	-	-	-	-	-	-	-	(124.04)	-	-	-	(47,451.66)	-	-	(47,575.70)	(47,575.70)	
2018-04 SRP Reduction Project																							
Revenue						-															-	-	
Expense						-								124.04							124.04	124.04	
Balance						-	-	-	-	-	-	-	-	(124.04)	-	-	-	-	-	-	(124.04)	(124.04)	
2018-06 Bass/Pomerleau Alum Trmt																							
Revenue						-															-	-	
Expense						-													119.40		119.40	119.40	
Balance						-	-	-	-	-	-	-	-	-	-	-	-	(119.40)	-	-	(119.40)	(119.40)	
TOTAL CIP																							
Revenue			920,151.18	250,931.92	316,845.29	360,734.39	-	-	-	-	-	-	82,248.32	-	-	-	-	74,593.74	598.74	-	157,440.80	1,424,511.26	
Expense			845,825.68	1,751.85	101,976.12	216,647.93	-	230.77	238.80	247.35	1,388.70	129.55	-	496.16	60.00	119.40	-	-	-	-	2,910.73	333,576.52	
From Closed Project Acct										5,650.47											5,650.47	5,650.47	
Payment										250,000.00											97,451.66	347,451.66	
Balance			74,325.50	249,180.07	214,869.17	94,086.46	-	(230.77)	(238.80)	(244,596.88)	(1,388.70)	(129.55)	82,248.32	(496.16)	(60.00)	(119.40)	-	(22,857.92)	598.74	(50,000.00)	(237,151.72)	749,133.55	



City of Robbinsdale

4100 Lakeview Avenue North
Robbinsdale Minnesota • 55422-2280
Phone: (763) 537-4534
Fax: (763) 537-7344
Website www.robbsdalemn.com

January 24, 2019

Judie Anderson
Shingle Creek Watershed Management Commission
3235 Fernbrook Lane N
PLYMOUTH MN 55447

Dear Judie,

Cost Share Program – Noble Avenue Underground Infiltration Chambers

I refer to the Watershed's Cost Share Program and the City of Robbinsdale's application for funding for underground infiltration chambers installed as part of the City's Noble Avenue Reconstruction project (City Project 31817).

The Commission ultimately approved a \$50,000 cost share contribution toward the installation of these facilities. All the work has been completed and the remaining punch list items finally addressed, allowing the City to finalize payment for that element of the work.

I have attached documentation verifying the final payment for the infiltration chambers (amongst other elements of the project) and seek the payment to the City of the agreed contribution amount.

If you have any questions or require further information regarding this project, please do not hesitate to contact me. I can be reached by phone at ☎763-531-1260 or by email at rmccoy@ci.robbsdale.mn.us.

Yours sincerely,

Richard McCoy, P.E.
Public Works Director / City Engineer

Note: Payment amount may not reflect the actual amount due to data sequencing and/or data selection.

AP Payment Documentation w Dates

12/18/2018 - 12/18/2018

Check #	Date	Amount	Supplier / Explanation	PO#	Doc No	Inv No	Account Number	Subledger	Account Description	BU Description
197041	12/18/2018	110650	NORTHWEST ASPHALT ✓ 1451 STAGECOACH ROAD SHAKOPEE MN 55379 ✓							
12/5/2018	12/5/2018	✓ 12,819.14	LOCAL STREET		137529	1252018	✓ 5410.6916	✓ 00031817	✓ Street Improvements	Traffic/Transport Improvements
12/5/2018	12/5/2018	✓ 8,509.15	MUNICIPAL		137530	1252018	✓ 5410.6916	✓ 00031817	✓ Street Improvements	Traffic/Transport Improvements
12/5/2018	12/5/2018	✓ 14,089.53	LOCAL WATER		137531	1252018	✓ 6025.6920	✓ 00031817	✓ Water Distribution System	Water Utility Capital Improve
12/5/2018	12/5/2018	✓ 14,210.11	LOCAL SANITARY		137532	1252018	✓ 6120.6922	✓ 00031817	✓ Sanitary Sewer Collection Sy	San Sewer Capital Improvements
12/5/2018	12/5/2018	✓ 64,038.46	LOCAL STORM		137533	1252018	✓ 6220.6924	✓ 00031817	✓ Storm Sewer Collection Syste	Storm Sewer Cap Improvements
12/5/2018	12/5/2018	✓ 7,991.51	MUNICIPAL		137534	1252018	✓ 6220.6924	✓ 00031817	✓ Storm Sewer Collection Syste	Storm Sewer Cap Improvements
		121,657.90								

[Handwritten signature]



City of Robbinsdale

PAYMENT REQUEST

COPY

PAY TO: NORTHWEST ASPHALT INC

Vendor # 110650

ADDRESS: 1451 STAGECOACH RD
SHAKOPEE, MN 55379

AMOUNT	ACCT NUMBER	DESCRIPTION	INVOICE #	INV DATE
12,819.14	5410.6916.31817W	LOCAL STREET	1252018	12/5/2018
8,509.15	5410.6916.31817W	MUNICIPAL (MSAS>5000)		
14,089.53	6025.6920.31817W	LOCAL WATER		
14,210.11	6120.6922.31817W	LOCAL SANITARY		
64,038.46	6220.6924-31817W	LOCAL STORM		
7,991.51	6220.6924.31817W	MINICIPAL (MSAS>5000)		

\$121,657.90
TOTAL

AUTHORIZED SIGNATURE _____

Date rec'd _____

DUE DATE _____

RELATE CODES (1099) CK 99

SEP CHECK _____

DIVISION AP / DISB



110650

CITY OF ROBBINSDALE

4100 Lakeview Avenue North
Robbinsdale, MN 55422

Project SAP 158-298-009 [31817] - Noble Avenue Street Reconstruction
Pay Request No. 10

Contractor:	Northwest Asphalt, Inc. 1451 Stagecoach Rd Shakopee, MN 55379
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Contract No.	
Vendor No.	110650
For Period:	7/20/2018 - 12/5/2018
Warrant #	Date

Contract Amounts

Original Contract	\$4,253,994.27
Contract Changes	\$91,937.32
Revised Contract	\$4,345,931.59

Funds Encumbered

Original	\$4,253,994.27
Additional	N/A
Total	\$4,253,994.27

Work Certified To Date

Base Bid Items	\$4,176,131.14
Backsheet	\$0.00
Change Order	\$0.00
Supplemental Agreement	\$0.00
Work Order	\$83,240.85
Material On Hand	\$0.00
Total	\$4,259,371.99

	Work Certified This Request	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Request	Total Amount Paid To Date
SAP 158-298-009 [31817]	\$80,677.72	\$4,259,371.99	\$42,593.72	\$4,095,120.38	\$121,657.89	\$4,216,778.27
			Percent Retained: 1.0000%		Percent Complete: 98.0083%	
Amount Paid This Pay Request					\$121,657.89	

This is to certify that the items of work shown in this certificate of Pay Request have been actually furnished for the work comprising the above mentioned projects in accordance with the plans and specifications heretofore approved.

Approved By

County/City/Project Engineer

12/12/2018
Date

Approved By Northwest Asphalt, Inc.

Contractor

12/11/18
Date

SAP 158-298-009 [31817] Payment Summary

No.	From Date	To Date	Work Certified Per Request	Amount Retained Per Request	Amount Paid Per Request
1	04/17/2017	06/02/2017	\$321,199.99	\$16,060.00	\$305,139.99
2	06/03/2017	06/29/2017	\$601,725.38	\$30,086.27	\$571,639.11
3	06/30/2017	08/01/2017	\$852,740.50	\$42,637.02	\$810,103.48
4	08/02/2017	08/30/2017	\$867,028.37	\$43,351.42	\$823,676.95
5	08/31/2017	09/28/2017	\$333,934.57	\$16,696.73	\$317,237.84
6	09/29/2017	11/02/2017	\$492,554.07	\$24,627.70	\$467,926.37
7	11/03/2017	12/15/2017	\$230,299.78	\$11,514.99	\$218,784.79
8	12/16/2017	06/01/2018	\$141,505.66	\$7,075.29	\$134,430.37
9	06/02/2018	07/19/2018	\$337,705.95	(\$108,475.53)	\$446,181.48
10	07/20/2018	12/05/2018	\$80,677.72	(\$40,980.17)	\$121,657.89
Totals:			\$4,259,371.99	\$42,593.72	\$4,216,778.27

SAP 158-298-009 [31817] Funding Category Report

Funding Category No.	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Request	Total Amount Paid To Date	
000	723,863.19	7,238.63	708,115.41	8,509.15	716,624.56	
001	707,562.20	7,075.62	687,667.44	12,819.14	700,486.58	
002	640,224.43	6,402.24	619,732.66	14,089.53	633,822.19	
003	683,654.87	6,836.55	662,608.22	14,210.11	676,818.32	
004	1,199,228.40	11,992.28	1,123,197.66	64,038.46	1,187,236.12	
005	304,838.89	3,048.39	293,798.99	7,991.51	301,790.50	
Totals:		\$4,259,371.97	\$42,593.71	\$4,095,120.37	\$121,657.90	\$4,216,778.26

SAP 158-298-009 [31817] Funding Source Report

Accounting No.	Funding Source	Amount Paid This Request	Revised Contract Amount	Funds Encumbered To Date	Paid To Contractor To Date
5410.6916	Local Street	12,819.14	744,494.30	677,095.22	700,486.58
5410.6916SA	Municipal (MSAS > 5000)	8,509.15	723,488.39	723,488.39	716,624.56
6025.6920	Local Water	14,089.53	656,142.53	647,158.37	633,822.19
6120.6922	Local Sanitary	14,210.11	768,387.98	760,863.94	676,818.32
6220.6924	Local Storm	64,038.46	1,105,264.30	1,102,278.26	1,187,236.12
6220.6924SA	Municipal (MSAS > 5000)	7,991.51	348,154.09	343,110.09	301,790.50
Totals:		\$121,657.90	\$4,345,931.59	\$4,253,994.27	\$4,216,778.26

Kennedy & Graven, Chartered200 South Sixth Street, Suite 470
Minneapolis, MN 55402Shingle Creek Watershed
Judie Anderson

December 31, 2018

SH220-00001 General

Through December 31, 2018

For All Legal Services As Follows:

			Hours	Amount
12/13/2018	TJG	Prepare for, travel to, and attend meeting	2.60	517.40
12/17/2018	TJG	Email exchange regarding carp contract	0.10	19.90
12/19/2018	TJG	Revise carp agreement; email same to Diane S for review	0.50	99.50
12/21/2018	TJG	Review catering contract; email comment regarding same to Judie A	0.30	59.70
12/26/2018	TJG	Revise catering agreement and email same to Judie A for review	0.20	39.80
Total Services:			\$	736.30

For All Disbursements As Follows:

12/13/2018	Troy Gilchrist; Mileage expense	5.45
Total Disbursements:		\$ 5.45

Total Services and Disbursements: \$ 741.75

Kennedy & Graven, Chartered

200 South Sixth Street, Suite 470
Minneapolis, MN 55402

(612) 337-9300

41-1225694

January 31, 2019

Statement No. 146840

Shingle Creek Watershed Management Commission

Judie Anderson

JASS - Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447


Through December 31, 2018

SH220-00001 General

741.75

Total Current Billing: 741.75

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.



Signature of Claimant

Blue Thumb Invoice

PO Box 17099

Minneapolis, MN 55417

651-699-2426

www.metroblooms.org

1/17/2019

Attn: Amy Juntunen/Shingle Creek WMO



Blue Thumb Partner Service Fees:

Small Watershed Management Organization

Amount

\$ 1,000.00

less 50% pledge of service hours \$ (500.00)

Total Due Upon Receipt \$ 500.00

Please remit to: Blue Thumb/Metro Blooms, PO Box 17099, Minneapolis, MN 55417. Questions: (651) 699-2426

This invoice represents service fees for a 2019 membership in Blue Thumb. You have elected to fulfill up to 50% of fees with service hours. Each action hour is counted as a \$50 contribution. Service hours are limited to defined activities as listed in your partner agreement. Any unfulfilled volunteer hours will be invoiced at year end. Other details about member benefits can be reviewed in the Partner Agreement.

State Register

660 Olive Street ♦ St. Paul, MN 55155

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Account 411104

Category 55101506 (Subscriptions)

Account 413002

Bill To: SHINGLE CREEK WATERSHED
ACCOUNTS PAYABLE
3235 FERNBROOK LN
PLYMOUTH, MN 55447

Quantity Ordered	Quantity Shipped	Item Number	Description	Price/Per	Amount
	1	1304	State Register Affidavit	\$15.00	\$15.00
	5	14581	Vol 43 No 29 - 1/14/2019	\$16.00	\$80.00

Subtotal: \$95.00

Shipping: \$0.00

INVOICE TOTAL: \$95.00

Amount Due: \$95.00

Shingle Creek
Phone 763.533.1144

Payment Terms

Associate Loretta

Customer PO#

Entry Date 1/16/2019

Order Number

Receipt Number 104646

Customer Number 7002130

Ship Via Shipping

**Thanks for using the State Register. When paying this invoice, please reference the receipt number shown below.
For billing questions, please call 651.297.3000. Please include customer number with submissions.**

Lawn Chair Gardener
5901 Birchwood St.
Shoreview, MN 55126
(651) 485-5171
dawn@lawnchairgardener.com
www.lawnchairgardener.com



INVOICE

BILL TO
WMWA
3235 Fernbrook Lane N.
Plymouth, MN 55447

INVOICE # 1151
DATE 01/30/2019
DUE DATE 03/01/2019
TERMS Net 30

ACTIVITY	QTY	RATE	AMOUNT
Social Media January 2019: 2 hours/week x 4 weeks	8	40.00	320.00
Social Media Reports	1	40.00	40.00
Consulting:Meeting January 8th WMWA meeting	2	40.00	80.00
Consulting:Mileage travel from Shoreview to Plymouth City Hall	50.40	0.58	29.23

BALANCE DUE

\$469.23

Invoice

December 5, 2018
Invoice No: 11808138



Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Eileen Weigel

Project B1240-0201 Shingle Creek HUC 8 Model Update

Professional Services Through November 30, 2018

Phase 01 Meetings
Meetings

Professional Personnel

	Hours	Rate	Amount	
Cruey, Bryce	1.00	195.00	195.00	
Totals	1.00		195.00	
Total Labor				195.00
Phase Total				\$195.00

Phase 02 Data Organization
Data Organization

Professional Personnel

	Hours	Rate	Amount	
Weigel, Eileen	3.50	127.00	444.50	
Totals	3.50		444.50	
Total Labor				444.50
Phase Total				\$444.50

Phase 03 Hydrologic Analysis
Hydrologic Analysis

Professional Personnel

	Hours	Rate	Amount	
Cruey, Bryce	1.00	195.00	195.00	
Weigel, Eileen	2.00	127.00	254.00	
Totals	3.00		449.00	
Total Labor				449.00
Phase Total				\$449.00

Total Invoice Amount \$1,088.50

Outstanding Invoices

Number	Date	Balance
11806485	10/3/2018	242.50
Total		242.50

Billing Summary	Current	Prior	Total
	1,088.50	242.50	1,331.00

INVOICES ARE DUE UPON PRESENTATION. Subject to 1-1/2% 18% Annum interest/finance charge. Please reference the invoice number when sending payment. Federal Tax ID #41-1520095 -Wenck Associates, Inc.-1800 Pioneer Creek Center PO Box 249- Maple Plain, MN 55359-0249 Toll Free:800-472-2232 Main:763-479-4200 E-mail:accounting@wenck.com Web www.wenck.com

Invoice

February 7, 2019
 Invoice No: 11900375



Ms. Judie Anderson
 Shingle Creek Watershed Management Comm.
 3235 Fernbrook Lane
 Plymouth, MN 55447

Responsive partner.
 Exceptional outcomes.

Project Manager Eileen Weigel

Project B1240-0201 Shingle Creek HUC 8 Model Update

Professional Services Through January 31, 2019

Phase 01 Meetings

Meetings

Professional Personnel

	Hours	Rate	Amount	
Weigel, Eileen	.40	145.00	58.00	
Totals	.40		58.00	
Total Labor				58.00
				Phase Total
				\$58.00

Phase 02 Data Organization

Data Organization

Professional Personnel

	Hours	Rate	Amount	
Weigel, Eileen	1.80	145.00	261.00	
Totals	1.80		261.00	
Total Labor				261.00
				Phase Total
				\$261.00

Phase 03 Hydrologic Analysis

Hydrologic Analysis

Professional Personnel

	Hours	Rate	Amount	
Weigel, Eileen	10.70	145.00	1,551.50	
Weis, Rena	37.30	108.00	4,028.40	
Totals	48.00		5,579.90	
Total Labor				5,579.90
				Phase Total
				\$5,579.90

Total Invoice Amount \$5,898.90

Outstanding Invoices

Number	Date	Balance
11808138	12/5/2018	1,088.50
Total		1,088.50

Billing Summary	Current	Prior	Total
	5,898.90	2,026.30	7,925.20

INVOICES ARE DUE UPON PRESENTATION. Subject to 1-1/2% 18% Annum interest/finance charge. Please reference the invoice number when sending payment. Federal Tax ID #41-1520095 -Wenck Associates, Inc.-1800 Pioneer Creek Center PO Box 249- Maple Plain, MN 55359-0249 Toll Free:800-472-2232 Main:763-479-4200 E-mail:accounting@wenck.com Web www.wenck.com

Invoice

February 7, 2019
Invoice No: 11900401



Responsive partner.
Exceptional outcomes.

Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Project Manager Edward Matthiesen

Project B1240-0204 2019 General Engineering
Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Kaczmarek, Hagen	12.60	120.00	1,512.00	
Matthiesen, Edward	9.30	198.00	1,841.40	
Spector, Diane	16.80	188.00	3,158.40	
Walden, Brittany	.20	97.00	19.40	
Weigel, Eileen	.40	145.00	58.00	
Weis, Rena	.90	108.00	97.20	
Totals	40.20		6,686.40	
Total Labor				6,686.40

Unit Billing

00-WAI Vehicle Golden Valley				16.24
		Total Invoice Amount		\$6,702.64

Billing Summary	Current	Prior	Total
	6,702.64	0.00	6,702.64

INVOICES ARE DUE UPON PRESENTATION. Subject to 1-1/2% 18% Annum interest/finance charge. Please reference the invoice number when sending payment. Federal Tax ID #41-1520095 -Wenck Associates, Inc.-1800 Pioneer Creek Center PO Box 249- Maple Plain, MN 55359-0249 Toll Free:800-472-2232 Main:763-479-4200 E-mail:accounting@wenck.com Web www.wenck.com

Invoice

February 7, 2019
Invoice No: 11900391



Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Diane Spector

Project B1240-0207 2019 Grant Writing
Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	4.30	188.00	808.40	
Walden, Brittany	.20	97.00	19.40	
Totals	4.50		827.80	
Total Labor				827.80

Unit Billing

00-WAI Vehicle Golden Valley				15.66
			Total Invoice Amount	\$843.46

	Current	Prior	Total
Billing Summary	843.46	0.00	843.46

Invoice

February 7, 2019
 Invoice No: 11900404



Ms. Judie Anderson
 Shingle Creek Watershed Management Comm.
 3235 Fernbrook Lane
 Plymouth, MN 55447

Responsive partner.
 Exceptional outcomes.

Project Manager Edward Matthiesen

Project B1240-0209 2019 Project Reviews
Professional Services Through January 31, 2019

Phase 01 2019 General Project Reviews
 2019 General Project Reviews

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	2.50	198.00	495.00	
Nalven, Sarah	.10	108.00	10.80	
Stone, Alicia	5.70	63.00	359.10	
Walden, Brittany	.20	97.00	19.40	
Totals	8.50		884.30	
Total Labor				884.30
				Phase Total
				\$884.30

Phase 02 WCA Administration
 WCA Administration

Professional Personnel

	Hours	Rate	Amount	
Dietrich, Meaghan	2.30	120.00	276.00	
Totals	2.30		276.00	
Total Labor				276.00
				Phase Total
				\$276.00

Phase 18004 Park 81
 Park 81

Professional Personnel

	Hours	Rate	Amount	
Nalven, Sarah	.90	108.00	97.20	
Totals	.90		97.20	
Total Labor				97.20
				Phase Total
				\$97.20

Phase 19001 New Hope City Hall - North
 New Hope City Hall - North

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	.50	198.00	99.00	

Project	B1240-0209	2019 Project Reviews	Invoice	11900404
Nalven, Sarah		9.70	108.00	1,047.60
Penshorn, John		.40	97.00	38.80
	Totals	10.60		1,185.40
	Total Labor			1,185.40
			Phase Total	\$1,185.40

Phase 19002 Rockford Road and I-494 Interchange
 Rockford Road and I-494 Interchange

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	2.10	198.00	415.80	
Nalven, Sarah	12.10	108.00	1,306.80	
Weigel, Eileen	.80	145.00	116.00	
	Totals	15.00	1,838.60	
	Total Labor			1,838.60
			Phase Total	\$1,838.60
			Total Invoice Amount	\$4,281.50

Billing Summary	Current	Prior	Total
	4,281.50	0.00	4,281.50

Invoice

February 7, 2019
Invoice No: 11900601



Responsive partner.
Exceptional outcomes.

Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Project Manager Thomas Langer

Project B1240-0210 2019 Stream Monitoring
Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Langer, Thomas	2.10	130.00	273.00	
Nalven, Sarah	8.30	108.00	896.40	
Spector, Diane	.50	188.00	94.00	
Strom, Jeffrey	1.40	145.00	203.00	
Walden, Brittany	.20	97.00	19.40	
Totals	12.50		1,485.80	
Total Labor				1,485.80

Outside Services

RMB Environmental Laboratories, Inc.			43.00	
Outside Services Total			43.00	43.00

Unit Billing

00-WAI Vehicle Golden Valley				
01-YSI - 6820 (Temp, DO, Cond, pH)				66.24
			Total Invoice Amount	\$1,595.04

	Current	Prior	Total
Billing Summary	1,595.04	0.00	1,595.04

Invoice

February 7, 2019
Invoice No: 11900599



Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Thomas Langer

Project B1240-0208 2019 Lake Monitoring

Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Langer, Thomas	2.60	130.00	338.00	
Spector, Diane	.50	188.00	94.00	
Strom, Jeffrey	.90	145.00	130.50	
Walden, Brittany	.20	97.00	19.40	
Totals	4.20		581.90	
Total Labor				581.90

Total Invoice Amount \$581.90

	Current	Prior	Total
Billing Summary	581.90	0.00	581.90

Invoice

February 7, 2019
Invoice No: 11900392



Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Diane Spector

Project B1240-0211 2019 TMDL 5 Year Reviews
Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Strom, Jeffrey	.40	145.00	58.00	
Walden, Brittany	.20	97.00	19.40	
Totals	.60		77.40	
Total Labor				77.40
				Total Invoice Amount
				\$77.40

	Current	Prior	Total
Billing Summary	77.40	0.00	77.40

Invoice



February 7, 2019
Invoice No: 11900390

Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Diane Spector

Project B1240-0203 2019 Education and Outreach

Professional Services Through January 31, 2019

Phase 01 General Education

General Education

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	8.30	188.00	1,560.40	
Walden, Brittany	.20	97.00	19.40	
Totals	8.50		1,579.80	
Total Labor				1,579.80
				Phase Total
				\$1,579.80

Phase 02 WMWA

WMWA

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	2.00	188.00	376.00	
Totals	2.00		376.00	
Total Labor				376.00
				Phase Total
				\$376.00

Total Invoice Amount \$1,955.80

	Current	Prior	Total
Billing Summary	1,955.80	0.00	1,955.80

SC Education 789.90
 WMWA 376.00

 1,165.90

WM Education 789.90

Invoice

February 6, 2019
Invoice No: 11900386



Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Jeffrey Strom

Project B1240-0205 2019 Annual WQ Report
Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Abercrombie, Nastassja	3.70	97.00	358.90	
Kaczmarek, Hagen	.90	120.00	108.00	
Langer, Thomas	13.70	130.00	1,781.00	
Nalven, Sarah	.10	108.00	10.80	
Spector, Diane	.50	188.00	94.00	
Stone, Alicia	2.30	63.00	144.90	
Strom, Jeffrey	.90	145.00	130.50	
Walden, Brittany	.20	97.00	19.40	
Weis, Rena	14.10	108.00	1,522.80	
Wilkinson, Anne	8.50	120.00	1,020.00	
Totals	44.90		5,190.30	
Total Labor				5,190.30
		Total Invoice Amount		\$5,190.30

	Current	Prior	Total
Billing Summary	5,190.30	0.00	5,190.30

SC - 3,633.21
WM - 1,557.09

Invoice

February 7, 2019
Invoice No: 11900389



Responsive partner.
Exceptional outcomes.

Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Project Manager Diane Spector

Project B1240-0200 Bass and Pomerleau Lakes Alum Treatment

Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Langer, Thomas	1.50	130.00	195.00	
Matthiesen, Edward	.20	198.00	39.60	
Totals	1.70		234.60	
Total Labor				234.60
				Total Invoice Amount
				\$234.60

	Current	Prior	Total
Billing Summary	234.60	15,459.50	15,694.10

Invoice

February 7, 2019
Invoice No: 11900387



Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Diane Spector

Project B1240-0187 Minneapolis Subwatershed Assessment

Professional Services Through January 31, 2019

Phase 01 Modeling and Report

Modeling and Report

Professional Personnel

	Hours	Rate	Amount	
Zhang, Lu	65.30	117.00	7,640.10	
Totals	65.30		7,640.10	
Total Labor				7,640.10
		Phase Total		\$7,640.10

Phase 02 Meetings and Public Input

Meetings and Public Input

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	1.50	186.00	279.00	
Totals	1.50		279.00	
Total Labor				279.00
		Phase Total		\$279.00

Total Invoice Amount \$7,919.10

Billing Summary	Current	Prior	Total
	7,919.10	21,695.30	29,614.40

INVOICES ARE DUE UPON PRESENTATION. Subject to 1-1/2% 18% Annum interest/finance charge. Please reference the invoice number when sending payment. Federal Tax ID #41-1520095 -Wenck Associates, Inc.-1800 Pioneer Creek Center PO Box 249- Maple Plain, MN 55359-0249 Toll Free:800-472-2232 Main:763-479-4200 E-mail:accounting@wenck.com Web www.wenck.com

Invoice

February 7, 2019
 Invoice No: 11900395



Ms. Judie Anderson
 Shingle Creek Watershed Management Comm.
 3235 Fernbrook Lane
 Plymouth, MN 55447

Responsive partner.
 Exceptional outcomes.

Project Manager Diane Spector

Project B1240-0163 Biochar/Iron Sand Filters

Professional Services Through January 31, 2019

Phase 02A Monitoring

Monitoring

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	1.70	127.00	215.90	
Nalven, Sarah	1.60	80.00	128.00	
Spector, Diane	4.00	127.00	508.00	
Zhang, Lu	9.90	80.00	792.00	
Totals	17.20		1,643.90	
Total Labor				1,643.90
				Phase Total
				\$1,643.90

Phase 03 Reporting & Info Sharing

Reporting & Info Sharing

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	1.00	127.00	127.00	
Zhang, Lu	1.00	80.00	80.00	
Totals	2.00		207.00	
Total Labor				207.00
				Phase Total
				\$207.00

Phase 04 Semi-annual Reports

Semi-annual Reports

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	2.20	127.00	279.40	
Totals	2.20		279.40	
Total Labor				279.40
				Phase Total
				\$279.40

Total Invoice Amount \$2,130.30

Invoice

February 07, 2019

Invoice No: 11900394



Ms. Judie Anderson
 Shingle Creek Watershed Management Comm.
 3235 Fernbrook Lane
 Plymouth, MN 55447

Responsive partner.
 Exceptional outcomes.

Project Manager Diane Spector

Project B1240-0162 Twin Lake Carp Management

Professional Services Through January 31, 2019

Phase 01B Carp Tracking

Carp Tracking

Reimbursable Expenses

Postage/Shipping-Reimbursable	15.57	
Total Reimbursables	15.57	15.57
Phase Total		\$15.57

Phase 02A Aeration System

Aeration System

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	.80	127.00	101.60	
Weigel, Eileen	2.20	90.00	198.00	
Totals	3.00		299.60	
Total Labor				299.60
Phase Total				\$299.60

Phase 02B Fish Barriers

Fish Barriers

Professional Personnel

	Hours	Rate	Amount	
Doede, Jerome	13.00	80.00	1,040.00	
Eggers, Bryan	1.00	80.00	80.00	
Goldsworthy, Garrett	12.00	80.00	960.00	
Lanhart, Bryce	8.75	80.00	700.00	
Totals	34.75		2,780.00	
Total Labor				2,780.00

Reimbursable Expenses

Field Supplies - Reimbursable	242.12	
Total Reimbursables	242.12	242.12
Phase Total		\$3,022.12

Phase 03 Carp Removal

Carp Removal

Professional Personnel

	Hours	Rate	Amount	
Langer, Thomas	3.50	80.00	280.00	
Totals	3.50		280.00	
Total Labor				280.00

Reimbursable Expenses

Tools & Equipment			813.90	
Total Reimbursables			813.90	813.90

Phase Total \$1,093.90

Phase 04A Water Quality Monitoring

Water Quality Monitoring

Professional Personnel

	Hours	Rate	Amount	
Langer, Thomas	2.80	80.00	224.00	
Totals	2.80		224.00	
Total Labor				224.00

Phase Total \$224.00

Phase 06 Semi-annual Reports

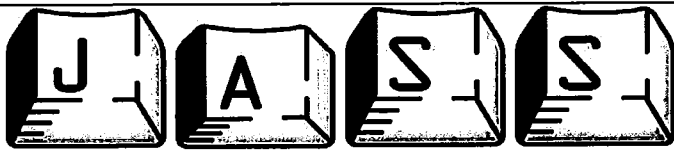
Semi-annual Reports

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	4.20	127.00	533.40	
Totals	4.20		533.40	
Total Labor				533.40

Phase Total \$533.40

Total Invoice Amount \$5,188.59



Your Virtual Administrator

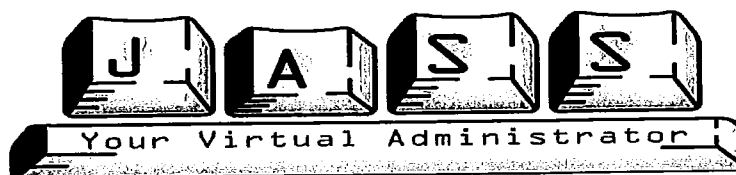
3235 Fernbrook Lane Plymouth MN 55447

Shingle Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth MN 55447

Feb 12 2019

Re: 2018 WMWA General Expense and Watershed PREP

Description	Rate	Hours/ No.	Amount	Total
General Expense				
Secretarial	55.00		-	
Secretarial	50.00		-	
Administrative	60.00	8.35	501.00	
Administrative - website, Facebook, Twitter	60.00	1.25	75.00	
Offsite, WMWA meetings, Blue Thumb, Watershed Partners, Home Expo, Henn County, city events	65.00		-	
Website hosting, domain registration one year	1.00		-	
Reimbursables	1.00	46.42	46.42	
Total General Expense				622.42
Watershed PREP				
Secretarial	55.00		-	
Administrative	60.00		-	
Offsite	65.00		-	
Reimbursables	1.00		-	
Total Watershed PREP				-
Total this invoice				622.42
Partner Share				155.61



3235 Fernbrook Lane
Plymouth MN 55447

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

February 12, 2019

	Share	G/L	Shingle Creek			West Mississippi			Total Project Area	
			SC	WM		SC	WM		SC	WM
Administrative		53001	1.91	55.00	105.05	1.50	55.00	82.50		
Administrative	70-30	53001	3.01	55.00	115.89		55.00	49.67		
Administrative		53001	13.66	60.00	819.60	7.84	60.00	470.40		
Administrative	70-30	53001	31.84	60.00	1,337.28		60.00	573.12		
Admin - Offsite		53001	0.90	65.00	58.50	0.90	65.00	58.50		
Admin - Offsite	70-30	53001	5.45	65.00	247.98		65.00	106.28		
Office Support	70-30	53001	7.00	200.00	980.00		200.00	420.00		
Data Processing/File Mgmt		53001		55.00	-	0.17	55.00	9.35		
Admin Reimbursables			615.51	1.00	615.51	398.68	1.00	398.68	4,335.600	2,168.490
Bookkeeping		54022		55.00	-		55.00	-		
Bookkeeping		54022	5.59	60.00	335.34	5.09	60.00	305.40		
Audit Prep		54022		55.00	-		55.00	-		
Audit Prep		54022	0.25	60.00	15.00	0.25	60.00	15.00	350.340	320.400
Project / WCA Reviews - Secre		53002		55.00	-		55.00	-		
Project / WCA Reviews - Admin		53002	0.67	60.00	40.20	0.42	60.00	25.20		
Project Reviews - File Mgmt		53002		55.00	-		55.00	-		
Reimbursable Expenses		53002	104.88	1.00	104.88	23.46	1.00	23.46	145.080	48.660
Education - Admin	50-50	57008		55.00	-		55.00	-		
Education - Admin	50-50	57008		60.00	-		60.00	-		
Education - Admin - Offsite	50-50	57008		65.00	-		65.00	-		
Website	50-50	57008		55.00	-		55.00	-		
Website	50-50	57008	1.42	60.00	42.60		60.00	42.60		
Renew website domain	50-50	57008		1.00	-		1.00	-		
Education Reimbursables	50-50	57008	3.58	1.00	3.58	3.58	1.00	3.58	46.180	46.180
Engineering Support - Admin		53004		55.00	-		55.00	-		
Engineering Support - Admin		53004	8.10	60.00	486.00		60.00	-		
Engineering Support - Offsite		53004		65.00	-		65.00	-		
Engineering Support - Secre	70-30	53004		55.00	-		50.00	-		
Engineering Support - Admin	70-30	53004	13.36	60.00	561.12		60.00	240.48		
Engineering Support - Offsite	70-30	53004	3.43	65.00	156.07		65.00	66.89		
Engineering Support Reimbursables		53004	276.79	1.00	276.79	31.10	1.00	31.10	1,479.975	338.465
									6,357.175	2,922.195

West Mississippi Watershed Management Commission
2018 Treasurer's Report

	2018 Budget	Jan 2019	Feb 2019	%age YTD	2018 YTD
REVENUE					
Application Fees	18,000	2,200.00		77.22	13,900.00
Blue Line Extension	2,000				-
Assessments	150,000			100.00	150,000.00
Interest & Dividend Income	500	875.70		1,697.68	8,488.42
Reserve - General	13,000			0.00	-
Miscellaneous Income					-
Transfer to (from) CIPs (see CIP Tracker page)		544.29			104,146.20
To (From) Reserve					-
TOTAL REVENUE	183,500	3,619.99	-		276,534.62
EXPENSES					
		2018 Activity			
ADMINISTRATION					
Administrative Services	31,000	2,836.51	2,263.49	96.80	30,006.63
Engineering Support	4,000	452.98	338.47	109.47	4,378.68
Project Reviews	1,000		48.66	44.44	444.43
ENGINEERING					
Administration	30,000	1,638.00	2,638.80	102.71	30,811.51
Grant Application Writing	1,500			0.00	-
Project Review	25,000	2,224.80	2,044.40	100.79	25,196.77
Blue Line Extension	2,000			63.66	1,273.25
LEGAL					
Legal Services	5,000	303.95	522.85	75.63	3,781.25
MISCELLANEOUS					
Bookkeeping	2,700	85.20	320.40	99.89	2,697.09
Audit	5,000			90.00	4,500.00
Insurance & Bonding	2,800			88.07	2,466.00
Meeting Expense	2,000	175.39		96.29	1,925.84
Meeting Expense 2019		164.36			164.36
PROJECTS					
Macroinvertebrate Monitoring	1,000			0.00	-
Volunteer Wetland Monitoring (WHEP)	2,000	2,000.00		100.00	2,000.00
Outfall and Stream Monitoring	17,000	2,260.40	549.60	100.03	17,005.68
Annual Water Quality Report	6,000		1,557.09	100.98	6,058.80
Water Quality Education					
Education Program	15,000	733.80		86.98	13,046.71
Education 2019		500.00	1,336.08		500.00
Rain Garden Workshops	2,000	2,924.25		146.21	2,924.25
Education Grants	2,000			0.00	-
WMWA General Programs	4,000		3,000.00	50.00	2,000.00
WMWA Educators/Watershed Prep	4,500		2,000.00	50.00	2,250.00
WMWA Special Projects	2,000			50.00	1,000.00
Contribution to Construction/Grant Match	5,000			0.00	-
Transfer to Management Plans (page 2)		65.19			621.88
Transfer to Projects (page 2)					-
Transfer to (from)CIPs					121,688.92
To (from) Reserves					3,435.12
TOTAL OPERATING EXPENSE	172,500	16,364.83	16,619.84		280,177.17
CASH SUMMARY					
4M Fund Balance at 12/31/17					477,140.24
Plus Revenue Received to Date					277,198.93
Minus Claims Approved to Date					(271,474.69)
Minus Claims Presented Current Month					(16,619.84)
Fund Balance		466,767.49			466,244.64

**West Mississippi Watershed Management Commission
2018 Treasurer's Report
Capital Improvement Project Tracking**

CIPs	Amount	%age	TOTAL 2012	TOTAL 2013	TOTAL 2014	TOTAL 2015	TOTAL 2016	TOTAL 2017	JAN 2018	FEB 2018	MAR 2018	APR 2018	MAY 2018	JUN 2018	JUL 2018	AUG 2018	SEP 2018	OCT 2018	NOV 2018	DEC 2018	JAN 2019 (2018)	TOTAL 2018	TOTAL ALL YEARS		
2013-02 Mill Pond Dam Strm Stabilization	125,000	100.000																							
Revenue			-	122,418.64	(385.61)	1,019.95	-	-															-	123,052.98	
Expense			1,488.10																				-	1,488.10	
Transfer General Funds to cover shortfall												3,435.12											3,435.12	3,435.12	
Payment to City												125,000.00											125,000.00	125,000.00	
Balance			(1,488.10)	122,418.64	(385.61)	1,019.95	-	-	-	-	-	(121,564.88)	-	-	-	-	-	-	-	-	-	-	(121,564.88)	-	
2014-03 Cost Share Retrofits	50,000	100.000																							
Revenue			-	-	-	50,108.29	-	(7.23)															-	50,101.06	
Expense			-	-	549.20	-	-	-															-	549.20	
Balance			-	-	(549.20)	50,108.29	-	(7.23)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49,551.86	
2015-06 Cost Share Retrofits	50,000	100.000																							
Revenue			-	-	-	-	50,025.19	10.78															-	50,035.97	
Expense			-	-	-	399.38	-	-															-	399.38	
Balance			-	-	(399.38)	50,025.19	10.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49,636.59	
2016-04 Cost Share Retrofits	50,500	38.462																							
Revenue			-	-	-	-	-	50,356.66															-	50,356.66	
Expense			-	-	-	-	132.00	-															-	132.00	
Balance			-	-	-	-	(132.00)	50,356.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,224.66	
2016-05 BioChar Project	80,800	61.538																							
Revenue			-	-	-	-	-	80,569.11															-	80,569.11	
Expense			-	-	-	-	132.00	86,117.50															-	86,249.50	
Balance			-	-	-	-	(132.00)	(5,548.39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(5,680.39)	
2017-04 City Cost Share BMP Projects	50,000	47.710																							
Revenue			-	-	-	-	-	-							25,826.25							23,602.22	259.68	49,688.15	49,688.15
Expense			-	-	-	-	128.47	-															-	128.47	
Balance			-	-	-	-	(128.47)	-	-	-	-	-	-	-	25,826.25	-	-	-	-	-	-	23,602.22	259.68	49,688.15	49,559.68
2017-05 Mississippi Crossings Rain Garden	54,800	52.290																							
Revenue			-	-	-	-	-	-							28,305.49							25,867.95	284.61	54,458.05	54,458.05
Expense			-	-	-	-	128.47	-															-	128.47	
Balance			-	-	-	-	(128.47)	-	-	-	-	-	-	-	28,305.49	-	-	-	-	-	-	25,867.95	284.61	54,458.05	54,329.58
2018-05 City Cost Share BMP Projects																									
Revenue			-	-	-	-	-	-															-	-	
Expense			-	-	-	-	-	-								124.04							124.04	124.04	
Balance			-	-	-	-	-	-	-	-	-	-	-	-		(124.04)	-	-	-	-	-	-	(124.04)	(124.04)	
TOTAL CIP																									
Revenue			-	122,418.64	(385.61)	51,128.24	50,025.19	130,929.32	-	-	-	-	-	-	54,131.74	-	-	-	-	-	-	49,470.17	544.29	104,146.20	458,261.98
Expense			1,488.10	-	549.20	399.38	264.00	86,374.44	-	-	-	-	-	-	-	124.04	-	-	-	-	-	-	124.04	89,199.16	
Transfer General Funds to Cover Shortfall												3,435.12											3,435.12	3,435.12	
Payment												125,000.00											125,000.00	125,000.00	
Balance			(1,488.10)	122,418.64	(934.81)	50,728.86	49,761.19	44,554.88	-	-	-	(121,564.88)	-	-	54,131.74	(124.04)	-	-	-	-	-	49,470.17	544.29	(17,542.72)	247,497.94

Kennedy & Graven, Chartered

200 South Sixth Street, Suite 470
Minneapolis, MN 55402

West Mississippi Watershed

December 31, 2018

WE405-00001 General

Through December 31, 2018

For All Legal Services As Follows:

			Hours	Amount
12/13/2018	TJG	Prepare for, travel to, and attend meeting (ADD TIME)	2.60	517.40
Total Services:			\$	517.40

For All Disbursements As Follows:

12/13/2018	Troy Gilchrist; Mileage expense			5.45
Total Disbursements:			\$	5.45

Total Services and Disbursements: \$ 522.85

Kennedy & Graven, Chartered

200 South Sixth Street, Suite 470
Minneapolis, MN 55402

(612) 337-9300

41-1225694

January 31, 2019

Statement No. 146848

West Mississippi Watershed Management Commission

JASS - Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447

Through December 31, 2018

WE405-00001 General

522.85

Total Current Billing: 522.85

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.


Signature of Claimant

Blue Thumb Invoice

PO Box 17099
Minneapolis, MN 55417
651-699-2426
www.metroblooms.org

1/16/2019

Attn: Amy Juntunen/West Mississippi WMO



Blue Thumb Partner Service Fees:

SWCD/County

<u>Amount</u>
\$ 500.00

Total Due by Feb. 1, 2019

\$ 500.00

Please remit to: Blue Thumb/Metro Blooms, PO Box 17099, Minneapolis, MN 55417. Questions: (651) 699-2426

This invoice represents service fees for a 2019 membership in Blue Thumb. You have elected to fulfill 100% of your fees through a full payment.

State Register

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Category 55101506 (Subscriptions)

Account 413002

Bill To: W MISSISSIPPI WATERSHED
ACCOUNTS PAYABLE
3235 FERNBROOK LANE
PLYMOUTH, MN 55447

Quantity Ordered	Quantity Shipped	Item Number	Description	Price/Per	Amount
	1	1304	State Register Affidavit	\$15.00	\$15.00
	5	14581	Vol 43 No 29 - 1/14/2019	\$16.00	\$80.00

Subtotal: \$95.00

Shipping: \$0.00

INVOICE TOTAL: \$95.00

Amount Due: \$95.00

Vest Mississippi
udie 763.553.1144

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For billing questions, please call 651.297.3000. Please include customer number with submissions.**

Payment Terms

Associate Loretta

Customer PO#

Entry Date 1/16/2019

Order Number

Receipt Number 104647

Customer Number 7002132

Ship Via Shipping

Invoice

February 7, 2019
Invoice No: 11900402



Ms. Judie Anderson
West Mississippi Watershed Mgmt. Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Edward Matthiesen

Project B1241-0073 2019 General Engineering

Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	2.50	198.00	495.00	
Spector, Diane	11.30	188.00	2,124.40	
Walden, Brittany	.20	97.00	19.40	
Totals	14.00		2,638.80	
Total Labor				2,638.80
		Total Invoice Amount		\$2,638.80

Billing Summary	Current	Prior	Total
	2,638.80	0.00	2,638.80

Invoice

February 7, 2019

Invoice No: 11900403



Ms. Judie Anderson
 West Mississippi Watershed Mgmt. Comm.
 3235 Fernbrook Lane
 Plymouth, MN 55447

Responsive partner.
 Exceptional outcomes.

Project Manager Edward Matthiesen

Project B1241-0076 2019 Project Reviews

Professional Services Through January 31, 2019

Phase 01 2019 General Project Reviews

2019 General Project Reviews

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	2.10	198.00	415.80	
Spector, Diane	.60	188.00	112.80	
Walden, Brittany	.20	97.00	19.40	
Totals	2.90		548.00	
Total Labor				548.00
				Phase Total
				\$548.00

Phase 02 2019 WCA Administration

2019 WCA Administration

Professional Personnel

	Hours	Rate	Amount	
Dietrich, Meaghan	1.40	120.00	168.00	
Totals	1.40		168.00	
Total Labor				168.00
				Phase Total
				\$168.00

Phase 19001 Oak Village

Oak Village

Professional Personnel

	Hours	Rate	Amount	
Matthiesen, Edward	1.80	198.00	356.40	
Nalven, Sarah	9.00	108.00	972.00	
Totals	10.80		1,328.40	
Total Labor				1,328.40
				Phase Total
				\$1,328.40

Total Invoice Amount \$2,044.40

	Current	Prior	Total
Billing Summary	2,044.40	0.00	2,044.40

Invoice

February 7, 2019
 Invoice No: 11900390



Ms. Judie Anderson
 Shingle Creek Watershed Management Comm.
 3235 Fernbrook Lane
 Plymouth, MN 55447

Responsive partner.
 Exceptional outcomes.

Project Manager Diane Spector

Project B1240-0203 2019 Education and Outreach

Professional Services Through January 31, 2019

Phase 01 General Education

General Education

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	8.30	188.00	1,560.40	
Walden, Brittany	.20	97.00	19.40	
Totals	8.50		1,579.80	
Total Labor				1,579.80
				Phase Total
				\$1,579.80

Phase 02 WMWA

WMWA

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	2.00	188.00	376.00	
Totals	2.00		376.00	
Total Labor				376.00
				Phase Total
				\$376.00

Total Invoice Amount \$1,955.80

Billing Summary	Current	Prior	Total
	1,955.80	0.00	1,955.80

SC Education 789.90
 WMWA 376.00

 1,165.90

WM Education 789.90

Invoice

February 6, 2019

Invoice No: 11900386



Ms. Judie Anderson
Shingle Creek Watershed Management Comm.
3235 Fernbrook Lane
Plymouth, MN 55447

Responsive partner.
Exceptional outcomes.

Project Manager Jeffrey Strom

Project B1240-0205 2019 Annual WQ Report

Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Abercrombie, Nastassja	3.70	97.00	358.90	
Kaczmarek, Hagen	.90	120.00	108.00	
Langer, Thomas	13.70	130.00	1,781.00	
Nalven, Sarah	.10	108.00	10.80	
Spector, Diane	.50	188.00	94.00	
Stone, Alicia	2.30	63.00	144.90	
Strom, Jeffrey	.90	145.00	130.50	
Walden, Brittany	.20	97.00	19.40	
Weis, Rena	14.10	108.00	1,522.80	
Wilkinson, Anne	8.50	120.00	1,020.00	
Totals	44.90		5,190.30	
Total Labor				5,190.30
		Total Invoice Amount		\$5,190.30

	Current	Prior	Total
Billing Summary	5,190.30	0.00	5,190.30

SC - 3,633.21
WM - 1,557.09

Invoice

February 7, 2019
Invoice No: 11900600

Ms. Judie Anderson
West Mississippi Watershed Mgmt. Comm.
3235 Fernbrook Lane
Plymouth, MN 55447



Responsive partner.
Exceptional outcomes.

Project Manager Thomas Langer

Project B1241-0077 2019 Stream and Outlet Monitoring

Professional Services Through January 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Langer, Thomas	1.30	130.00	169.00	
Nalven, Sarah	1.40	108.00	151.20	
Spector, Diane	.50	188.00	94.00	
Strom, Jeffrey	.40	145.00	58.00	
Walden, Brittany	.20	97.00	19.40	
Weigel, Eileen	.40	145.00	58.00	
Totals	4.20		549.60	
Total Labor				549.60
		Total Invoice Amount		\$549.60

	Current	Prior	Total
Billing Summary	549.60	0.00	549.60



3235 Fernbrook Lane
Plymouth MN 55447

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

February 12, 2019

	Share	G/L	Shingle Creek			West Mississippi			Total Project Area	
			SC	WM		SC	WM	SC	WM	
Administrative		53001	1.91	55.00	105.05	1.50	55.00	82.50		
Administrative	70-30	53001	3.01	55.00	115.89		55.00	49.67		
Administrative		53001	13.66	60.00	819.60	7.84	60.00	470.40		
Administrative	70-30	53001	31.84	60.00	1,337.28		60.00	573.12		
Admin - Offsite		53001	0.90	65.00	58.50	0.90	65.00	58.50		
Admin - Offsite	70-30	53001	5.45	65.00	247.98		65.00	106.28		
Office Support	70-30	53001	7.00	200.00	980.00		200.00	420.00		
Data Processing/File Mgmt		53001		55.00	-	0.17	55.00	9.35		
Admin Reimbursables			615.51	1.00	615.51	398.68	1.00	398.68	4,335.600	2,168.490
Bookkeeping		54022		55.00	-		55.00	-		
Bookkeeping		54022	5.59	60.00	335.34	5.09	60.00	305.40		
Audit Prep		54022		55.00	-		55.00	-		
Audit Prep		54022	0.25	60.00	15.00	0.25	60.00	15.00	350.340	320.400
Project / WCA Reviews - Secre		53002		55.00	-		55.00	-		
Project / WCA Reviews - Admin		53002	0.67	60.00	40.20	0.42	60.00	25.20		
Project Reviews - File Mgmt		53002		55.00	-		55.00	-		
Reimbursable Expenses		53002	104.88	1.00	104.88	23.46	1.00	23.46	145.080	48.660
Education - Admin	50-50	57008		55.00	-		55.00	-		
Education - Admin	50-50	57008		60.00	-		60.00	-		
Education - Admin - Offsite	50-50	57008		65.00	-		65.00	-		
Website	50-50	57008		55.00	-		55.00	-		
Website	50-50	57008	1.42	60.00	42.60		60.00	42.60		
Renew website domain	50-50	57008		1.00	-		1.00	-		
Education Reimbursables	50-50	57008	3.58	1.00	3.58	3.58	1.00	3.58	46.180	46.180
Engineering Support - Admin		53004		55.00	-		55.00	-		
Engineering Support - Admin		53004	8.10	60.00	486.00		60.00	-		
Engineering Support - Offsite		53004		65.00	-		65.00	-		
Engineering Support - Secre	70-30	53004		55.00	-		50.00	-		
Engineering Support - Admin	70-30	53004	13.36	60.00	561.12		60.00	240.48		
Engineering Support - Offsite	70-30	53004	3.43	65.00	156.07		65.00	66.89		
Engineering Support Reimbursables		53004	276.79	1.00	276.79	31.10	1.00	31.10	1,479.975	338.465
									6,357.175	2,922.195

SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION

PROJECT REVIEW SC 2019-001: New Hope City Hall- North Drainage Area

Owner: City of New Hope
(Jeff Sargent—Community Development Director)
4401 Xylon Avenue North
New Hope, MN 55428
763-531-5196
jsargent@ci.new-hope.mn.us

Engineer: Chris Long
Company: Stantec
Address: 733 Marquette Ave, Suite 100
Minneapolis, MN 55402

Phone: 651-604-4808
Email: chris.long@stantec.com

Purpose: Demolition and construction of New Hope’s City Hall, Police Station, City Pool, and associated parking lot, as well as the reconfiguration of the park amenities in the project area. The total project area is about 19.8 acres.

Location: 4401 Xylon Avenue North, New Hope, MN 55428 (Figure 1).

Work will take place on the following five parcels (all of which are owned by the City of New Hope):

- 1811821120005
- 0711821430004
- 1811821120002
- 1811821120001
- 1800821110011

Exhibits:

1. Project review application, received 1/30/19 and project review fee of \$2,200, received 2/11/19.
2. Site, grading, utility, erosion control, and landscaping plans dated 1/18/19, received 1/30/19. Hydrologic calculations dated 1/18/19, received 1/30/19.

Findings:

1. The proposed project is the demolition and construction of New Hope’s City Hall, Police Station, City Pool, and associated parking lot, as well as the reconfiguration of the park amenities in the project area. The site is 19.8 acres. Following development, the site will be 40.4 percent impervious with 8.0 acres of impervious surface, an increase of 1.4 acres.
2. The complete project application was received on 1/30/19. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the 3/14/19 meeting. Sixty calendar-days expires on 3/31/19.
2. To comply with the Commission’s water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5” storm event, or BMPs providing a similar level of treatment - 80-85% TSS

SC2019-001: New Hope City Hall- North Drainage Area

removal and 50-60% TP removal. Infiltrating 1.3-inches of runoff, for example, is considered sufficient to provide a similar level of treatment. If a sump is used the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

Runoff from the site is proposed to be routed to an underground rock filtration system (Figures 2 & 3). The system includes a two ft. layer of medium-sized angular rock and a centralized tree trench. Runoff will percolate a minimum of 65 linear feet through the rock before existing on the other side. Pretreatment will be provided by a sump (4 ft. depth, 6 ft. diameter) with SAFL Baffle prior to entering the underground system, which SHSAM predicts will remove greater than 80% of sediment from stormwater. The applicant meets Commission water quality treatment requirements.

- Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from 4.8 acres of impervious surface (including impervious surface associated with the new City Hall and Police Station buildings, the new pool parking lot, and portions of the pool deck) will be routed to an underground rock filtration system (Figures 2 & 3), which is intended to reduce runoff rates. The proposed underground system will consist of two feet of medium-sized angular rock and will lie beneath the entirety of the new pool parking lot. Subcatchments that are not routed to the underground system have disconnected impervious surface that makes up 25% of the subcatchment on average. The applicant meets Commission rate control requirements (Table 1).

Table 1. Runoff from site (cfs).

Drainage Area	2-year event		10-year event		100-year event	
	Pre-	Post-	Pre-	Post-	Pre-	Post-
Drainage to North	15.8	14.4	22.5	18.2	72.9	71.4

- Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 8.0 acres, requiring infiltration of 0.927 acre-feet within 48 hours. However, soils on site are not conducive to infiltration, so *filtration* of 0.927 acre-feet is instead required. The applicant proposes to route runoff to an underground rock filtration system (Figure 2 & 3) that has the capacity to filtrate the required volume within 48 hours. The applicant meets Commission volume control requirements.
- The National Wetlands Inventory identifies one 0.34 acre probable wetland in the northern portion of the site. The City of New Hope is the LGU for WCA administration for this project, and New Hope Public Works Director Bernie Weber is the LGU contact. Sarah Nalven of Wenck had a conversation with Mr. Weber on 2/5/19 in which Mr. Weber stated that this probable wetland is actually just a low-lying wet spot in a field of turf-grass and that the project is in line with all WCA requirements. The applicant meets Commission wetland requirements.
- There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.

SC2019-001: New Hope City Hall- North Drainage Area

7. 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 underground storage system according to Atlas 14 precipitation. The applicant meets Commission floodplain requirements.
8. An erosion control plan was submitted with the project review, and includes inlet protection, silt fence, and a rock construction entrance. The erosion control plan meets Commission requirements.
9. A project update was recently presented to City Council on 1/14/19, and several other public events have been conducted around the project. The project meets Commission public notice requirements.
10. An Operations & Maintenance (O&M) plan was provided.
11. A Project Review Fee of \$2,200 has been received.

Recommendation: Recommend approval without conditions.

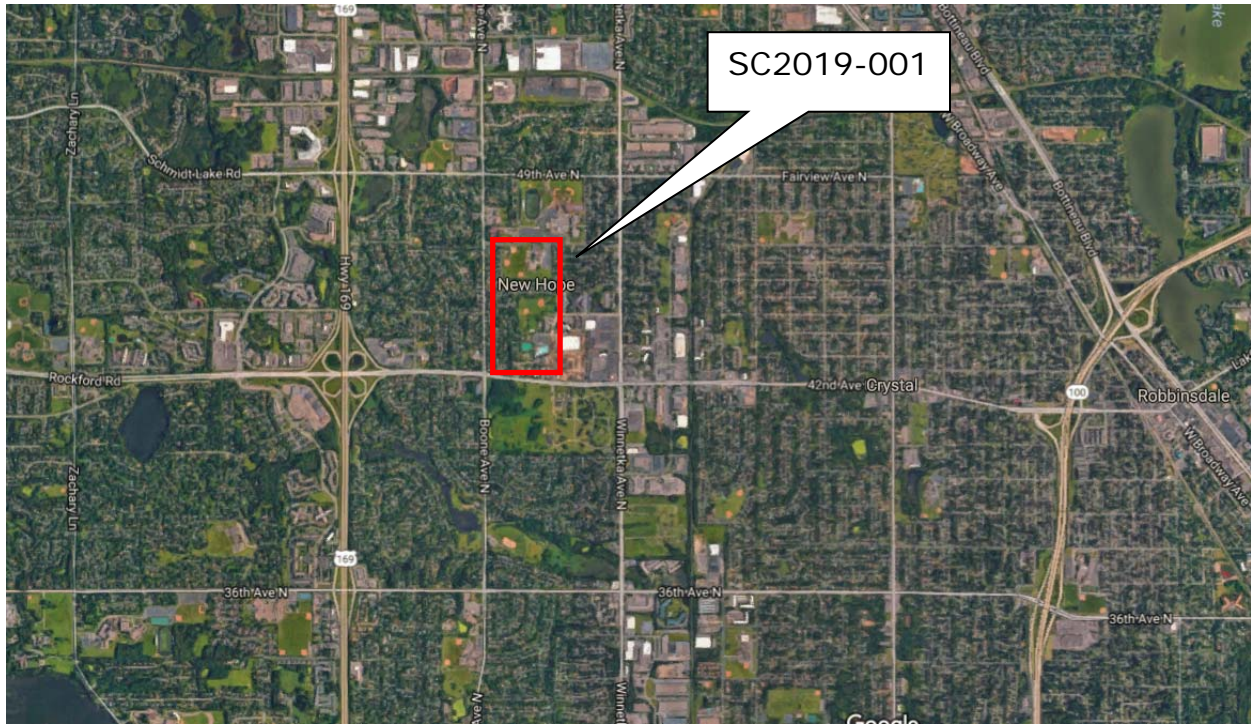
Wenck Associates, Inc.
Engineers for the Commission

Ed Matthiesen, P.E.

Date

SC2019-001: New Hope City Hall- North Drainage Area

Figure 1. Site location.



SC2019-001: New Hope City Hall- North Drainage Area

Figure 2. Proposed drainage map.

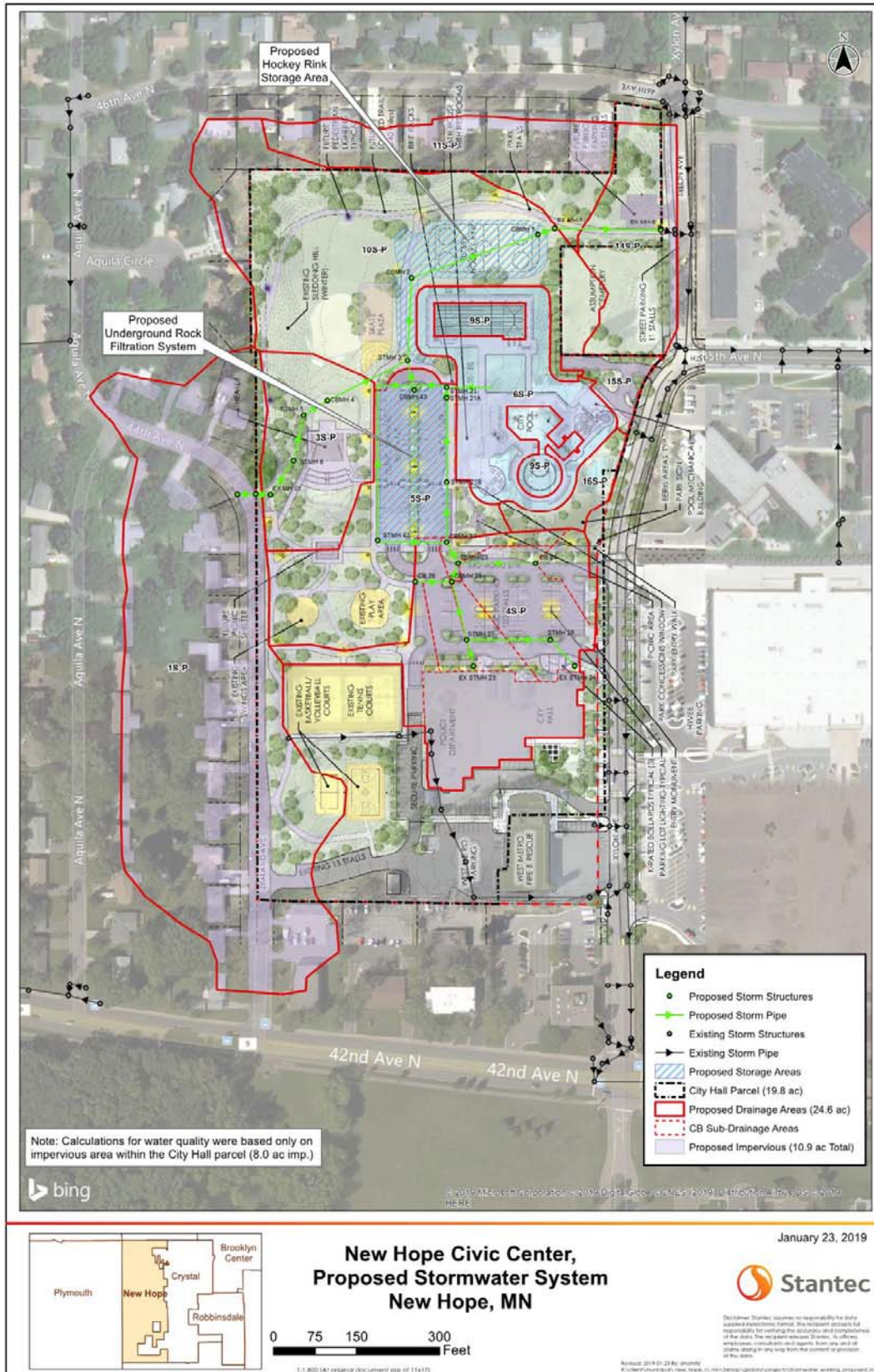
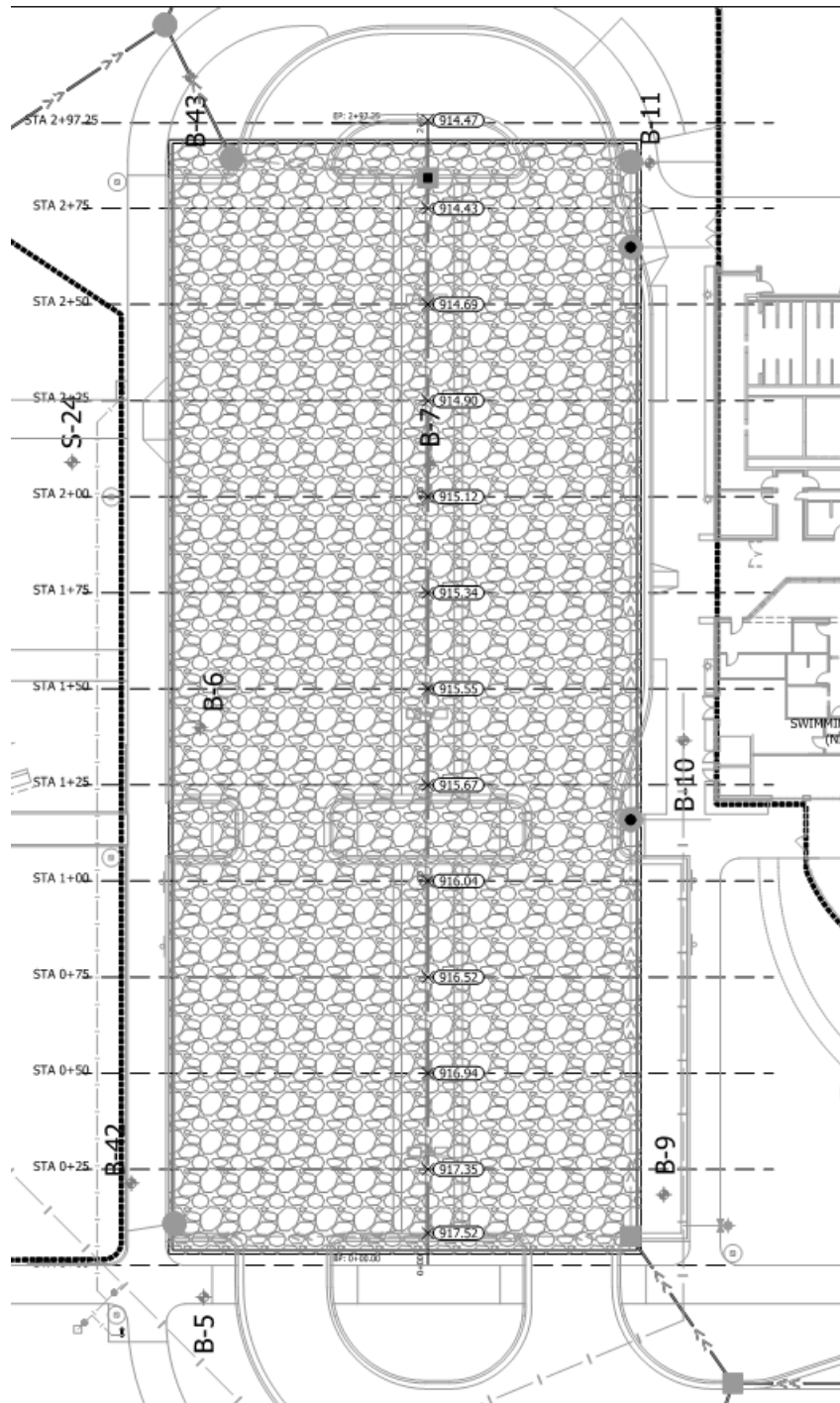


Figure 3. Underground rock filtration system detail.



MINUTES
January 24, 2019

A meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Chairman Richard McCoy at 8:36 a.m., Thursday, January 24, 2019, at Crystal City Hall, 4141 Douglas Drive North, Crystal MN.

Present were: Andrew Hogg, Brooklyn Center; Mitch Robinson, Brooklyn Park; Mark Ray, Crystal; Derek Asche, Maple Grove; Liz Stout, Minneapolis; Megan Hedstrom, New Hope; Ben Scharenbroich, Plymouth; Richard McCoy and Marta Roser, Robbinsdale; Diane Spector, Wenck Associates, Inc.; Judie Anderson, JASS.

Not represented: Champlin and Osseo.

Also present were: Katrina Kessler, Minneapolis; Harold E. Johnson, Osseo; Andy Polzin and Vanessa Strong, Plymouth; Rachel Olmanson, MPCA; Michelle Stockiness' and Bailey Hadnott, Barr Engineering; Chris Long, Stantec ;and Mike Harley, Environmental Initiative.

- I. Motion by Ray, second by Scharenbroich to **approve the agenda**. * *Motion carried unanimously.*
- II. Motion by Ray, second by Stout to **approve the minutes** of the December 13, 2018 meeting. * *Motion carried unanimously.*
- III. **Chloride Pilot Presentation.**

Representatives from Barr Engineering were present to provide a preview of their proposed Multi-Sector Chloride Pilot. Specifically, they are requesting from the TAC:

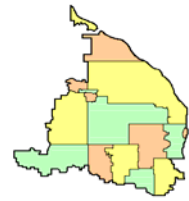
A. To consider the idea of a multi-sector chloride reduction pilot. Sectors being explored by Barr include transportation, water supply, wastewater, surface water and industrial.

B. To provide additional ideas for chloride reduction across the watershed. *It was suggested that Barr take their presentation to the BWSR chloride focus group of eleven watersheds. Can't go statewide until there is a local impact/project. Try to get all metro watersheds on the same level. Try to get Hennepin County as a partner – reach out to Karen Galles. Support with grant applications – LCCMR deadline is April 15. If the liability issue is resolved in the Legislature, private applicator training could become mandatory.*

C. To provide insight on specific needs of Shingle Creek. *Other sectors discussed by the members included salt on private surfaces and water softeners. They noted that as a mature watershed Shingle Creek has seen very little impact from current load-reduction efforts.*

IV. Cost Share Projects.

A. The City of **New Hope** is requesting funding through the Commission's Partnership Cost Share for Private Projects program for the Speed Thru Carwash project located at 7201 Bass Lake Road. The system will use five 20,000-gallon tanks to collect and store stormwater from the site. The storage tanks will be treated by aerobic bacteria. All petroleum-based products will be consumed and the only byproducts will be CO₂ and water. The bacteria-treated water will be further purified using a reverse osmosis system before being dispensed in the car wash tunnel. The City is requesting \$50,000. Total project cost is \$309,971.



Motion by Ray, second by Scharenbroich to table action on this request pending answers to a number of questions raised by the members. *Motion carried unanimously.*

B. Two questions regarding the use of City Cost Share funds have arisen at recent meetings.

1. Equipment. Should the purchase of maintenance equipment be eligible for cost share, and to what extent? As an example, the practice of enhanced, more frequent street sweeping with a regenerative air sweeper has been shown to be an effective BMP, especially in developed areas where there are limited opportunities for structural BMPs. Can a City apply for cost share to help fund the up cost of replacing a broom sweeper with a regenerative air sweeper? What about funding a new sweeper? Any other types of equipment? The members agreed that funding equipment “above and beyond” should be eligible for the Cost Share Program. The members had also previously discussed an application to fund brine tanks. Staff will discuss the eligibility for such projects with Karen Galles at Hennepin County.

2. Cost Share v. CIP. At the last meeting the members discussed whether projects could be eligible for both CIP participation and City Cost Share and had agreed that it should be one or the other. The current Cost Share Program Guidelines* were included in the meeting packet. The following language was proposed to be added to guidelines 3:

3. Projects should cost less than \$1000,000; projects costing more than \$100,000 should be submitted to the CIP. Projects cannot receive funding from both the CIP and the Cost-Share Program.

3. After further discussion, motion by Asche, second by Ray to allow projects costing more than \$100,000 to be eligible for the City Cost-Share program but that the maximum Commission contribution continue at \$50,000. *Motion carried unanimously.* This recommendation will be forwarded to the Commissions at their February meeting.

4. The members also agreed to continue Commission funding of lake and stream internal load projects at 100%.

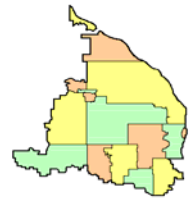
As a reminder, total funds available in the City Cost-Share program are: Shingle Creek - \$240,000, and West Mississippi - \$235,000. Applications are accepted until funds are encumbered.

V. CIP and Annual Levy Limits.*

A. In 2007 the Commissions adopted a Major Plan Amendment to their Second Generation Watershed Management Plan. That amendment established the Cost Share Policy for Commission participation in capital improvement projects up to a maximum of 25% of the actual project cost up to \$250,000. The policy also voluntarily limited the maximum annual levy request to the County to \$500,000 for each Commission. In 2011, as the Commissions were developing the Third Generation Plan, this policy was reviewed by City Managers, who recommended no changes.

B. At the last TAC meeting and at the Commissions’ January meetings there was discussion regarding the self-imposed limits on the annual levy. The Commissions requested the TAC to review and discuss this issue and bring back a recommendation to the February meeting. Any change would require a Minor Plan Amendment.

1. It was agreed to eliminate the \$250,000 maximum contribution on any one CIP.



2. The members also agreed to raise the annual levy request from \$500,000 to \$750,000 and to increase that amount to \$1,000,000 by the time of the Fourth Generation Plan in 2022.

Motion by Ray, second by Scharenbroich to approve these two recommendations.
Motion carried unanimously.

VI. Other Business.

A. Ed Matthiesen is currently presenting the **biochar project** to the PCA. It is also featured in *Stormwater Magazine*.

B. Topics for the next Technical Advisory Committee meeting include additional information on the New Hope project and Autumn Ridge Phase II. The next meeting is scheduled for 8:30 a.m., Thursday, February 28, 2019, at Crystal City Hall.

C. The meeting was adjourned at 10:29 a.m.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Judie A. Anderson".

Judie A. Anderson
Recording Secretary

Z:\Shingle Creek\TAC\2019 TAC\01-24-19 minutes.docx

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMC Commissioners
From: Diane Spector
Date: February 13, 2019
Subject: Education and Outreach Update

WMWA. The Tuesday, February 12, 2019 WMWA meeting was cancelled due to weather. The next meeting will be Tuesday, March 12, 2019, at Plymouth City Hall.

Watershed PREP and Education and Outreach Events. Educators are currently scheduling spring classroom visits. A reminder – the educators are available to table at city and school events; contact Amy Juntunen at amy@jass.biz. In 2019 the educators will be putting together some potential presentations for lake associations.

Ten Things Brochure. The brochure is in final edits and the group is working with Hennepin County to finalize the design and layout, and we expect that Hennepin County will print the brochure at no cost to the watersheds.

Website/Social Media. The website Google Analytics for January 2019 are attached, as are the Facebook insights for the last 28 days for both Shingle Creek and WMWA. As a reminder, Facebook Reach is the number of times a post was viewed in a feed, Engagement is an action – a click, comment, share, or reaction. Winter is a slow time for social media about water quality.


Professional Services Contract. At the January 8, 2019 meeting, WMWA agreed to again hire Dawn Pape to prepare 1-2 Facebook and Twitter postings per week for 2019 about water quality, AIS, salt use, natural resources issues, and the Pledge to Plant campaign. The contract also provides for one boosted post per month. Dawn has been managing social media for Bassett Creek and has found that boosting one or two posts per month dramatically increases reach and engagement. Attached is a contract drafted by the Commissions' attorney between WMWA and Lawn Chair Gardener, Dawn's company. As Shingle Creek acts as fiscal agent for WMWA, the Commission must be party to the attached agreement. Staff recommends that the Commission authorize entering into this contract.

Shingle Creek FB Metrics

Last 28 days: 132 total Likes (3 new), 295 Reaches, 115 Engagements.


■ Reach: Organic / Paid ▼
■ Post Clicks
 ■ Reactions, Comments &

Published	Post	Type	Targeting	Reach <i>i</i>	Engagement
02/03/2019 11:05 PM	 Shingle Creek Watershed Management Organization shared a			55 ■	2 0
02/01/2019 1:18 PM	 Shingle Creek Watershed Management Organization shared a			47 ■	7 1
01/31/2019 6:43 PM	 Shingle Creek Watershed Management Organization shared a			81 ■	58 17
01/25/2019 1:28 PM	 MN GreenCorps fight excess sidewalk salt - Clean Water Minnesota			50 ■	3 4
01/09/2019 11:56 AM	 Morgan Freeman is now a Beekeeper: He Converts His 124-			269 ■	3 7
01/06/2019 3:11 PM	 Shingle Creek Watershed Management Organization shared a			70 ■	17 5
12/27/2018 6:35 PM	 Great workshop about how to reduce salt use, which ends up in our local			54 ■	5 0
12/12/2018 1:32 PM	 Way to go!			56 ■	22 7





Shingle Creek Watershed Management Organization


shared a post.

Published by Amy Juntunen (?) · January 31 at 6:43 PM · 

...

Mississippi Watershed Management Organization

January 31 at 12:27 PM · 

A little habitat goes a long way! This big buck found himself a peaceful corner of a rain garden at The Guild, a #northmpls woodworking co-op, to relax in this m...
[See More](#)

81
People Reached

75
Engagements

Boost Unavailable

Performance for Your Post

81 People Reached

23 Reactions, Comments & Shares *i*

11 Like **11** On Post **0** On Shares

3 Love **3** On Post **0** On Shares

3 Wow **3** On Post **0** On Shares

0 Comments **0** On Post **0** On Shares

6 Shares **6** On Post **0** On Shares

58 Post Clicks

13 Photo Views **2** Link Clicks *i* **43** Other Clicks *i*

NEGATIVE FEEDBACK

0 Hide Post

0 Hide All Posts


West Metro Water Alliance (WMWA) Metrics

Last 28 days: 146 total Likes (1 new), 534 Reaches, 183 Engagements


■ Reach: Organic / Paid ▼
■ Post Clicks
 ■ Reactions, Comments &

Published	Post	Type	Targeting	Reach <i>i</i>	Engagement
02/03/2019 11:05 PM	 West Metro Water Alliance shared a post.			56 ■	2 0 ■ ■
01/31/2019 6:43 PM	 West Metro Water Alliance shared a post.			58 ■	26 2 ■ ■
01/30/2019 8:27 PM	 This is why we Pledge to Plant for Pollinators and Clean Water! Learn			63 ■	12 3 ■ ■
01/29/2019 9:29 PM	 Please watch and then share this post. So true, so true!			136 ■	6 3 ■ ■
01/29/2019 10:15 AM	 Over-salting has become a silent crisis. Check out this website that			175 ■	3 15 ■ ■
01/25/2019 10:09 AM	 "If salting continues at the current rate, local waterways may no longer			276 ■	12 12 ■ ■
01/25/2019 10:07 AM	 Although this event, isn't hosted in our watershed, we certainly support			6 ■	0 0 ■ ■
01/18/2019 4:01 PM	 Cool event! #Pledge2Plant for pollinators—and other amazing			36 ■	1 2 ■ ■
01/11/2019 8:03 PM	 Know anyone?			61 ■	15 2 ■ ■
01/10/2019 5:15 PM	 The Shingle Creek Watershed is one of our partners! See what we're			50 ■	11 2 ■ ■
01/09/2019 8:57 PM	 Interesting event for those of us who are cheering for the bees!			23 ■	0 1 ■ ■
01/09/2019 5:57 PM	 Clean water is SOOO important! It's the building block of life. Please			71 ■	3 4 ■ ■
01/09/2019 4:11 PM	 Kudos to our friends on in the East Metro for conserving water. Way to			53 ■	3 1 ■ ■

Most engaging post:

 **West Metro Water Alliance**
Published by Dawn Dubats Pape [?] · January 29 at 10:15 AM · 🌐

Over-salting has become a silent crisis. Check out this website that aims to bring all the folks working on this issue together. <http://saltsmart.info/>



Get More Likes, Comments and Shares
Boost this post for \$30 to reach up to 26,000 people.

175 People Reached **18** Engagements [Boost Post](#)

Performance for Your Post

175 People Reached

15 Likes, Comments & Shares ⓘ

11 Likes	5 On Post	6 On Shares
0 Comments	0 On Post	0 On Shares
4 Shares	4 On Post	0 On Shares

3 Post Clicks


1 Photo Views	1 Link Clicks ⓘ	1 Other Clicks ⓘ
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NEGATIVE FEEDBACK


0 Hide Post	0 Hide All Posts
0 Report as Spam	0 Unlike Page

SCWM


Jan 1, 2019 - Jan 31, 2019

 All Users
100.00% Sessions

Users

300
% of Total: 100.00% (300) 

Pageviews

831
% of Total: 96.97% (857) 

Pageviews by Landing Page

Landing Page	Pageviews
/	551
/staff.html	44
/minutes-meeting-packets.html	32
/tac-meetings.html	29
/shingle-creek-commissioners.html	21
/maps.html	18
/biochar-filters.html	17
/carp-tracking.html	16
/meetings.html	15
/twin-lake-carp-management.html	13

Pageviews and Unique Pageviews by Page

Page	Pageviews	Unique Pageviews
/	278	207
/minutes-meeting-packets.html	53	49
/staff.html	50	46
/tac-meetings.html	41	40
/application-materials.html	38	37
/shingle-creek-commissioners.html	32	27
/maps.html	31	29
/contact-us.html	26	23
/management-plan.html	20	14
/biochar-filters.html	18	18

PROFESSIONAL SERVICES AGREEMENT

THIS PROFESSIONAL SERVICES AGREEMENT (“Agreement”) is made as of the 13th day of March, between the Shingle Creek Watershed Management Commission (the “Commission”), a Minnesota joint powers organization, and Lawn Chair Gardener, 5901 Birchwood Street, Shoreview, MN 55126 (the “Contractor”), for services related to stormwater management and water quality education.

I. SERVICES

Contractor agrees to perform services for the Commission as described on Attachment One, Outreach and Marketing Proposal prepared by Dawn Pape, Lawn Chair Gardener, for West Metro Water Alliance, dated January 26, 2019, which is attached to and made a part of this Agreement (“Services”). The terms of and conditions of this Agreement shall be controlling over any conflicting term or condition within the January 26, 2019 proposal.

II. COMPENSATION

The Commission will compensate Contractor at a rate of \$42 per hour, with a total not to exceed of \$3,400 for all Services provided for Social Media Management. Additional services may be added with not-to-exceed limits set at meetings during the contract year. Contractor shall submit itemized invoices for services rendered.

III. EXPENSE REIMBURSEMENT

The Commission will reimburse Contractor for any reimbursable expenses related to providing the Services. The Commission agrees to pay for such reimbursable expenses, if reasonably and necessarily incurred. The parties agree that in no event shall the total amount for reimbursable expenses exceed \$1,000.00 unless added by motion during a regular meeting. This sum is not included in the compensation set out in Paragraph II, Compensation.

IV. PAYMENT

Contractor will submit monthly invoices to the Commission providing detailed time records of Services provided and time spent, and shall provide receipts for eligible reimbursable expenses. Invoices and records, together with supporting information, shall be submitted in a form acceptable to the Commission. The Commission will pay invoices within 45 days of receipt thereof.

V. TERM

This Agreement will be in effect until February 28, 2020, or until completion of the Services, whichever occurs first. The Commission may terminate this Agreement at any time for any

reason upon five days' written notice to Contractor and Contractor will be compensated for the Services satisfactorily rendered until the effective date of termination.

VI. ASSIGNMENT

Contractor may not assign this Agreement without first obtaining the express written consent of the Commission.

VII. AMENDMENTS

No amendments may be made to this Agreement except in writing signed by both parties.

VIII. INDEPENDENT CONTRACTOR

The Contractor and its employees are not employees of the Commission. It is agreed that the Contractor and its employees will act as an independent contractor and acquire no rights to tenure, workers' compensation benefits, unemployment compensation benefits, medical and hospital benefits, sick and vacation leave, severance pay, pension benefits or other rights or benefits offered to employees of the Commission, its departments or agencies. Nor will the Commission withhold any state or federal taxes, including income or payroll taxes, which may be payable by Contractor. The parties agree that the Contractor and its employees will not act as the agent, representative or employee of the Commission.

IX. INSURANCE

[Intentionally left blank]

X. INDEMNIFICATION

Contractor will hold harmless and indemnify the Commission, its officers, employees, and agents, against any and all claims, losses, liabilities, damages, costs and expenses (including reasonable attorney's fees) arising out of any bodily injury, loss of life, property damages and any other damages related to Contractor's performance under this Agreement.

XI. DATA PRACTICES

The Contractor agrees to comply with the Minnesota Government Data Practices Act and all other applicable state and federal laws relating to data privacy or confidentiality. The Contractor will immediately report to the Commission any requests from third parties for information relating to this Agreement. The Commission agrees to respond promptly to inquiries from the Contractor concerning data requests. The Contractor agrees to hold the Commission, its officers, and employees harmless from any claims resulting from the Contractor's unlawful disclosure or use of data protected under state and federal laws.

XII. COMPLIANCE WITH THE LAW

Contractor agrees to abide by the requirements of all applicable federal and state laws relating to discrimination and harassment, including but not limited to The Americans with Disabilities Act of 1990 (ADA), the Minnesota Human Rights Act, and Title VII of the Civil Rights Act of 1964. Violation of any such laws is grounds for termination of this Agreement.

XIII. AUDITS

The Contractor agrees that the Commission, the State Auditor or any of their duly authorized representatives, at any time during normal business hours and as often as they may reasonably deem necessary, shall have access to and the right to examine, audit, excerpt and transcribe any books, documents, papers, and records that are relevant and involve transactions relating to this Agreement.

XIV. APPLICABLE LAW

The execution, interpretation, and performance of this Agreement will, in all respects, be controlled and governed by the laws of Minnesota.

XV. CONFLICT AND PRIORITY

[Intentionally left blank]

XVI. CANCELLATION BY CONTRACTOR

The Contractor may cancel this Agreement upon thirty (30) days' written notice if the Commission fails to fulfill its obligations under this Agreement in a proper and timely manner.

XVII. NOTICES

Any notice or demand, authorized or required under this Agreement shall be in writing and shall be sent by certified mail to the other party as follows:

To the Contractor: Lawn Chair Gardener
Dawn Pape
5901 Birchwood Street
Shoreview, MN 55126

To the Commission: Shingle Creek Watershed Management Commission
3235 Fernbrook Lane North
Plymouth, MN 55447

IN WITNESS WHEREOF, the parties have executed this Agreement on the date and year written above.

FOR THE CONTRACTOR:

By _____

Its _____

FOR THE COMMISSION:

By _____

R. A. Polzin , Its Chair

Attachment One

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: February 14, 2019

Subject: Section 319 Grant
Crystal Lake Management Plan

**Recommended
Commission Action**

Authorize the submittal of a Section 319 grant application for the proposed Crystal Lake Management Plan.

Attached is a rough draft of a Section 319 grant to complete the proposed Crystal Lake Management Plan proposed late last fall. This proposed project would include an alum treatment for Crystal Lake, carp harvesting, and aquatic vegetation management.

We are still working on updating the cost estimates, but as shown in the summary table on page 5 of the draft application, we expect that the total cost would be about \$300,000, with about \$180,000 proposed from grant and \$120,000 from the Commission. As part of this year's Minor Plan Amendment, the CIP would be amended to specify that the generic 2020 lake internal load project would be the Crystal Lake Management Plan.

Project title: Crystal Lake Management Plan

1. Project summary:

Organization: Shingle Creek Watershed Management Commission

Contractor contact name: Judie Anderson

Title: Administrator

Address: 3235 Fernbrook Lane
Plymouth, MN 55447

Phone: 753-553-1144

Fax: 763-553-9326

Email: judie@jass.biz

Proposed Subcontractor(s)/Partner(s):

Organization: Wenck

Project manager: Ed Matthiesen

Address: 7500 Olson Memorial Highway Suite 300
Golden Valley, MN 55427

Phone: 763-252-6851

Fax: 952-831-1268

Email: ematthiesen@wenck.com

Proposed Subcontractor(s)/Partner(s):

Organization: UW-Stout

Project manager: Bill James

Address: _____

Phone: _____

Fax: _____

Email: _____

Project information

Latitude/Longitude: 45.026758, -93.327305

County: Hennepin

Total project cost: _____ **total grant funds:** _____ **total match funds:** _____

***Full time equivalents:** _____

Project location:

a) Basin (check all that apply):

- Lake Superior Lower Mississippi/Cedar Upper Mississippi Minnesota Rainy
 Red River Des Moines Missouri St. Croix

b) Watershed name: _____ **HUC8:** _____

c) Waterbody names and Assessment Unit Identification numbers (AUIDs) Crystal Lake (27-0034-00)

- d) Listed 303(d) impairment including parameters, e.g., phosphorus, total suspended solids, etc., other documented water quality problem, or other (explain): Nutrients
- e) Reports addressing water bodies of concern (must have an EPA-approved TMDL by February 26, 2018): <https://www.pca.state.mn.us/water/tmdl/crystal-lake-excess-nutrients-tmdl-project>
- f) Is there an EPA-approved Nine Element Plan approved for this watershed? (30 points) No

Organization type: Local/Regional government (county, SWCD, WD, etc.)
 State government
 Joint powers organization of local government

Interested in this proposal being scored for 0% Interest Clean Water Partnership Loan funds (no obligation)?

Yes No

2. Statement of problems, opportunities, and existing conditions

Project background (15 points)

Crystal Lake is a 126-acre nutrient-impaired lake located in the city of Robbinsdale. It is popular among anglers, and there are several city parks abutting the lake as well as a regional bike trail. There is a public boat landing on the south end and a fishing pier on the north end. Summer ten-year average TP concentration is 63 ug/L compared to the deep lake standard of 40 ug/L. The excessive concentration of phosphorus causes nuisance algae blooms and has inhibited the growth of aquatic plants, limiting fish habitat and the aesthetic appeal of the lake. The carp population in the lake stir up phosphorus-containing sediment on the bottom as they feed, impacting water clarity and furthering the phosphorus release. This is becoming an even greater issue as carp increase in density in the lake. Reduction in the in-lake phosphorus concentration and the carp population is needed to promote a healthy ecosystem and bring a greater recreational appeal to the lake.

The Crystal Lake Nutrient TMDL was approved in 2008, and the cities of Robbinsdale and Minneapolis and Hennepin County have been actively implementing BMPs in the lakeshed. The TMDL requires a 90% decrease in TP from internal sources (255 pounds) and a 59% decrease from watershed sources (256 pounds). In 2016 the Shingle Creek Watershed Management Commission completed a TMDL Progress Review. It estimated that the cities and county had achieved about 73 pounds of the required annual 256 pound TP wasteload reduction. The city of Crystal also installed and continues to run a flocculation treatment facility in Lakeview Terrace Park, which has averaged the removal of 147 pounds per year over the three years it's been in service. However, when the hypolimnetic water withdrawn for treatment becomes anoxic, the system produces a foul smell, which is not acceptable to the park users or the adjacent residential neighborhood. When there are odor issues, the system is switched over to epilimnetic withdrawal, which is less efficient at controlling phosphorus from sediment release.

In addition to nutrient issues, a recent carp assessment estimated the current mean biomass of carp in Crystal Lake as about 126 kg/ha. Research suggests that high densities of common carp can reduce submersed aquatic vegetation coverage, lower water fowl populations, and increase turbidity. These impacts begin to occur when the carp population exceeds a 100 kg/ha critical density threshold (Bajer et al. 2009). Crystal Lake does not currently sustain a robust aquatic vegetation community, likely limited by the presence of carp and excess turbidity.

Project impact (25 points)

The purpose of this project is to improve the water quality and ecological integrity of Crystal Lake to restore beneficial uses and progress the lake toward achieving the state water quality standard for TP. As the largest lake in the city of Robbinsdale and with significant adjacent park acreage, it is a popular destination for water recreation and fishing. The proposed project takes a whole-lake management approach, significantly reducing internal phosphorus release from sediments, reducing the carp population to a more manageable carrying capacity, and as water clarity improves, encouraging the restoration of a healthy native plant community and addressing the potential increase in invasive aquatic plant populations.

The Crystal Lake Management Plan includes three components. The first is a lake alum treatment to seal the sediments and reduce the need and frequency of withdrawing from the hypolimnion. The second is carp harvesting to reduce the population to a level well below the impairment threshold. The third step, after alum treatment and carp removal, is the restoration of a healthy native aquatic vegetation community by treating invasive plants as water quality improves and take any necessary management steps to keep the lake healthy and native.

To maximize the effectiveness of the alum treatment, it would be performed in two doses. Initial sediment cores would be used to compute the effective dose, and water column DO measurements would be used to identify the anoxic zone and

the limits of alum treatment. One-half the recommended dose would be applied the first year, and additional sediment cores taken and evaluated. Based on the initial results, dosing for the second treatment may be adjusted. Following the second treatment, a final set of sediment cores would be used to confirm the effectiveness of the treatment at reducing the sediment release rate. Alum treatments dosed correctly can achieve a 90-95% reduction in sediment release. The goal of the Crystal Lake alum treatment is a 90% reduction, or 255 pounds per year, which is the TMDL internal load reduction requirement. This improvement would allow the flocculation system to focus on reducing phosphorus in the epilimnion, which would help treat the watershed load and extend the life of the alum treatment.

An initial carp assessment has already been completed. This would be updated, and RTF tags placed in a sample of the fish for radio tracking to determine their overwintering locations. Based on an initial carp assessment, approximately 3,500-4,000 kg of carp will need to be removed from the lake to reduce the population density below the 100 kg/ha density threshold. The Commissions will work with the commercial fisherman assigned to this area to harvest carp and other undesirable rough fish. Fewer carp stirring up the bottom sediments should also result in less sediment and pollutants being stirred up from the bottom of the lake, improving clarity.

Finally, as water clarity improves, the Commission will monitor submersed aquatic vegetation for invasive aquatic plants and manage those by using spot treatments. This does not directly abate pollution, but the effective removal of invasive species does promote growth of a healthy natural ecosystem.

Organization (10 points)

The Commission has no staff but contracts with consulting engineering and administrative services firms to conduct its business. Contract staff from Wenck Associates who would participate in this project include: Ed Matthiesen, PE, MCE, watershed engineer with over 30 years of experience in water resources and environmental engineering (project manager); Joe Bischoff, MS, limnologist and aquatic ecologist with 20 years experience (sediment chemistry, alum dosing); Jeff Strom, MS, water resources scientist with eight years' experience (performance monitoring); Tom Langer, fish biologist with 6 years' experience (fish and aquatic vegetation surveys, carp tracking and removal) and Diane Spector, MS, water resources scientist with 20 years' experience (grant coordination, public outreach). This team is currently working on similar projects in the Shingle Creek watershed on Twin Lakes in Crystal/Brooklyn Center/Robbinsdale and Bass and Pomerleau Lakes in Plymouth. Other partners in this project will be the City of Crystal and the DNR.

Landowner readiness/willingness (15 points)

The City of Robbinsdale is supportive of this project, and the Commission has a history of working with the DNR on similar types of holistic lake management programs, for example the current Twin Lake Carp Management Project, a portion of which is located in Robbinsdale.

3. Goals, objectives, tasks, and subtasks (5 points)

Goal: The purpose of this project is to improve the water quality of Crystal Lake through the reduction of phosphorus levels, removal of carp and possible treatment for invasive aquatic species. Following completion Crystal Lake will have a healthy ecosystem of native fish and plants and cleaner, clearer waters. Removal / reduction of each of the three target elements: phosphorus, carp and invasive aquatic plants will improve water quality. Improved water clarity will promote plant growth and habitat for native fish. Fewer carp will allow for more space and resources for native fish and reduce phosphorus release and turbidity from stirred-up sediments. Removing invasive plant species will allow for native plant species to inhabit the lake. Together these efforts will restore Crystal Lake to have a natural, native, self-supporting ecosystem.

Objective 1: Reduce Phosphorus Levels in Crystal Lake

Task 1: Dosing and Effectiveness Monitoring. Initial sediment cores will be taken from the lake in approximately February 2020 and evaluated for redox-P by Professor Bill James at the Center for Limnological Research and Rehabilitation at UW-Stout. The results will allow the calculation of a maximum initial dosage for alum. Dissolved oxygen profiles previously taken on Crystal Lake will be used to establish the treatment area. Additional cores will be taken following the initial alum dose and results used to make any necessary adjustments to application rates and areas. A final set of cores taken following the second application will be evaluated to verify that the desired reductions have been achieved.

Responsible Party: Shingle Creek Commission, Wenck, Bill James (UW-Stout)

Task 2: Alum Application. The first dose of aluminum sulfate treatment would be applied in Spring 2021. The second dose would likely be applied in Spring 2022. The City of Robbinsdale will act as contracting agent for this publicly bid project.

Responsible Party: City of Robbinsdale, Commission's Engineer (Wenck)

Task 3: Water Quality Monitoring. The Commission's engineer will perform followup water quality monitoring in 2021 and 2022 to document changes in water quality and clarity. The lake will be monitored for surface and

bottom TP, chl-a, TKN, and Secchi depth and DO and temperature profiles, bimonthly from late May to late September. This data will be compared to historical monitoring data to help evaluate project effectiveness. Prior to undertaking monitoring the Commission will work with the MPCA to prepare a QAPP establishing monitoring procedures. A Crystal Lake monitoring station is already established in EQUIS, and collected data will continue to be uploaded as required.

Responsible Party: Shingle Creek Commission, Commission's Engineer (Wenck)

Objective 1 Timeline: February 2020 to September 2022

Objective 1 Cost: \$

Objective 1 Deliverables: Technical memo setting forth dosing calculations; monitoring data.

Objective 2: Carp Removal

Task 1: Carp Population Assessment and Tracking. The previously-conducted carp assessment will be updated by the Commission's engineer using electrofishing techniques. During this assessment 10-15 carp will be tagged with radio transmitter markers. The tagged carp will periodically be tracked using portable trackers to identify overwintering locations. Following removals, a followup carp assessment will be completed to verify that the density goal has been achieved. This task includes coordination and permitting with the DNR.

Responsible Party: City of Robbinsdale, Commission's Engineer (Wenck)

Task 2: Commercial Fish Removal. The Commission will contract with the commercial fishermen assigned to this area to remove and sell or dispose of carp. The primary carp removal effort will be in late winter 2021, just prior to the first alum dose. Additional removals may occur in later, smaller efforts depending on the results of the followup population assessment.

Responsible Party: City of Robbinsdale, Commission's Engineer (Wenck), commercial fishermen (TBD)

Objective 2 Timeline: June 2020 to September 2022

Objective 2 Cost:

Objective 2 Deliverables: Technical memo reporting the results of the before and after population assessment, and records of biomass removed from the lake.

Objective 3: Invasive Aquatic Plant Removal

Task 1: Field Surveys and Permit Application: The Commission's engineer will perform submersed aquatic vegetation (SAV) surveys in May and September 2020, 2021, and 2022. If invasive species management is required, the engineer will obtain necessary permits from and prepare required reports to the DNR.

Responsible Party: City of Robbinsdale, Commission's Engineer (Wenck)

Task 2: Herbicide Spot Treatments: Spot treatments for invasive plant species will be conducted as necessary in 2020, 2021, and 2022.

Responsible Party: City of Robbinsdale, Commission's Engineer (Wenck)

Objective 3 Timeline: January 2020 to September 2022.

Objective 3 Cost: \$

Objective 3 Deliverables: Plant surveys, treatment records

Objective 4: Administration/Semiannual and Final Reports.

Task A: Administration/Semiannual and Final Reports.

Semiannual reports will be completed and submitted to MPCA by February 1st and August 1st each year during the Grant term. A final report will be submitted to MPCA within 30 days from the end of the Grant. Best Management Practices will be reported each year they are implemented by February 1st to the Statewide eLINK data system. Invoices will be submitted to MPCA at least quarterly. Methods and findings will be compiled into a final technical report that will be submitted as part of the Final Report for this grant.

Responsible Party: Commission's Engineer (Wenck)

Objective 4 Timeline: February 2020 to September 2022

Objective 4 Cost:

Objective 4 Deliverables: Semi-annual and final reports, invoices

4. Measurable outcomes (15 points)

- a) List the specific measurable outcomes on the targeted waterbody(s) this project would achieve and project deliverables for the approved TMDL. Examples include number and brief description of BMPs to be completed, estimated pollution reductions, cost per pound of pollution reduction. Use requested grant funds for this calculation, not total project costs. Ranges of reduction and cost are acceptable. Note: these approved models may be helpful to estimate load reductions, STEP-L, BWSR eLINK.

Please fill out table for **each water body** (the table can be cut and pasted for multiple water bodies):

Lake ID or stream AUID	Crystal Lake					
Phosphorus	Alum treatment	lbs/yr	255	\$/lb	\$870	100%
Sediment		tons/yr		\$/ton		%
Nitrogen		lbs/yr		\$/lb		%
Other (list): <u>Carp</u>	Carp removal	kg	4000	\$/kg	\$12.64	N/A%
				\$/		%

- b) Explain the impact this project would have on the reduction goals for the watershed (e.g., the 300 lb/yr phosphorous reduction is 25% of the needed 1,200 lb/yr reduction of phosphorous in watershed A):

The 255 pound annual TP load reduction is 100% of the 255 pound annual internal load reduction required by the Crystal Lake Nutrient TMDL. There is no specific TMDL reduction goal for rough fish management, although it is a recommended action in the Implementation Plan.

- c) Describe how an evaluation of the project will be done, including how success will be defined and measured. For example, a description of effectiveness monitoring could be included:

The effectiveness of these measures is assessed through analysis of post-application sediment cores, water quality testing, and surveys. Phosphorus is monitored through water quality data and can also be tracked through analysis of core samples. The change in fish populations are tracked and monitored through surveys before and after commercial removal. Similarly, aquatic plants are surveyed before and after spot treatment to track the progress in eliminating the invasive species. Specifically, the Commission will take pre-application, mid-application, and post-application lake sediment cores and have them analyzed for redox-P release to verify that the target release rate has been achieved. In addition, lake surface and bottom water quality will be monitoring bimonthly for two year to assess progress in improving nutrient concentrations, reducing algal growth as measured by chlorophyll-a, and improving water clarity as measured by Secchi depth.

Commented [ALS1]: What else should go here? Where can I find the data?

6. Proposed project budget (see attached spreadsheet)

Summary table.

Activity	Commission	Grant	Total
Objective 1: Alum Treatment	\$108,280	\$113,480	\$221,760
Objective 2: Carp Removal	10,000	40,540	50,540
Objective 3: SAV Management		13,400	13,400
Objective 4: Admin and Reporting		10,000	10,000
	\$118,280	\$177,420	\$295,700

(These tables are from the original Crystal Lake Management Plan proposal)

Table 1. Estimated costs for feasibility studies and data collection.

Component	Activity	Cost
Internal Loading (Sediment Release)	Sediment coring	\$ 2,080
	Laboratory sediment analysis	5,990
	Reporting, alum dosing & monitoring	4,850
	<i>Subtotal, Internal Loading (Sediment Release)</i>	12,920

Component	Activity	Cost
Internal Loading (Fish Management)	Field survey	3,000
	Permit procurement, report	2,000
	Analysis & discussion of next steps	1,000
	<i>Subtotal, Fish Community Management</i>	6,000
Project Management		2,000
	Total, Feasibility Studies/Data Collection	\$ 20,920

Table 2. Estimated costs for implementation/execution.

Component	Activity	Cost
Internal Loading	Alum Application	\$69,300 - \$84,000
	Follow-up Sediment Coring	12,920
	Follow-up Water Quality Monitoring	15,000
	Second Alum Application	\$69,300 - \$84,000
	Final Sediment Coring	12,920
	<i>Subtotal, Internal Loading</i>	<i>\$179,440 - \$208,840</i>
Fish Management	Post-Removal Population Assessment	3,500
	Permit Procurement	1,040
	Implant Radio Tags	10,000
	Commercial Carp Removal(s)	30,000
	<i>Subtotal, Fish Population Management</i>	<i>44,540</i>
Aquatic Vegetation Management	Post-Alum Application & Herbicide Field Surveys	5,000
	Permit Procurement	1,000
	Herbicide Spot Treatments	5,000
	Reports	2,400
	<i>Subtotal, Aquatic Vegetation Management</i>	<i>13,400</i>
Project Management		2,000
	Total Implementation/Execution	\$237,380 - \$266,780

2019 Environmental Initiative Awards Project Nominations
Shingle Creek Biochar-and Iron-Enhanced Sand Filters
Due Feb 22, 2019

Project Summary*

Must be between 1 and 550 words.

Project Goals*

Please describe the goals for this project and how they are important to solving environmental problems. Must be between 1 and 275 words.

Project Partners*

Please list up to 10 key project partners and associated point people involved with this project, including yourself, if applicable.

Project Partnership: Please describe how project partners worked together to build collaborate across difference on this project.*

Must be between 1 and 275 words.

Project Impacts: Please describe the environmental impacts associated with the project.*

Must be between 1 and 275 words.

Groundbreaking: Please describe how this project was unique and innovative.*

Must be between 1 and 275 words.

Considering Equity: Please describe how the project considered social equity, such as eliminating of barriers to full participation of historically under-represented and marginalized communities, in the project's development and execution.*

Must be between 1 and 275 words.