

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
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Email: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL OFFICE
Hennepin County
Dept. of Environment and Energy
701 Fourth Ave S Suite 700
Minneapolis, MN 55415-1600
PH: 612.348.7338
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Email: James.Kujawa@co.hennepin.mn.us

Regular Meeting July 11, 2018 AGENDA - REVISED

1. Call Regular Meeting to Order.
 - a. Approve Agenda.*
2. Consent Agenda.
 - a. Minutes last Meeting.*
 - b. Treasurer's Report and Claims.*
3. Open Forum.
 - a. 2017 Stream Monitoring Presentation.
4. Action Items.
 - a. Project Reviews.*
 - b. Consider Livestock Management Policy.**
 - 1) Medina Response.*
 - 2) Corcoran Response.*
 - c. Watershed-based funding Pilot – appoint member to Chloride Steering Committee.*
 - d. Request for Diamond Lake SWA.*
5. New Business.
6. Communications.
7. Education.
 - a. WMWA Update.
 - b. Level 1 Winter Maintenance for Roads.*
8. Grant Opportunities and Updates.
 - a. Fish Lake Internal Phosphorus Loading Control.
 - b. Rush Creek Headwaters Subwatershed Assessment.*
9. Project Reviews – *also see Staff Report*.*
10. Other Business.
11. Adjourn.

Z:\Elm Creek\Meetings\Meetings 2018\07 Regular Agenda.docx

Project Reviews. (See Staff Report.*)						
a.					2013-046	Woods of Medina, Medina.
b.					2014-015	Rogers Drive Extension, Rogers.
c.					2015-004	Kinghorn Outlet A, Rogers.
d.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
e.					2016-002	The Markets at Rush Creek, Maple Grove.
f.					2016-005W	Ravinia Wetland Bank Plan, Corcoran.
g.					2016-040	Kinghorn 4th Addition, Rogers.

*in meeting packet
**available at meeting

h.					2016-047	Hy-Vee Maple Grove #1 (Hy-Vee Maple Grove North).
i.				AR	2016-052	The Woods at Rush Creek, Maple Grove.
j.				AR	2017-014	Laurel Creek, Rogers.
k.				AR	2017-016	Territorial Woods, Maple Grove.
l.				AR	2017-017	Mary Queen of Peace Catholic Church, Rogers.
m.				AR	2017-019	Medina Senior Living Community, Medina.
n.				AR	2017-021	Hindu Society of MN Staff Housing, Maple Grove.
o.				AR	2017-029	Brayburn Trails, Dayton.
p.				AR	2017-034	Plymouth Memory Care, Plymouth.
q				AR	2017-037	Corcoran L-80 Lift Station MCES Project 808520, Corcoran.
r.					2017-038	Bass Lake Estates, Corcoran.
s.					2017-039	Rush Creek Apartments, Maple Grove.
t.					2017-044	Reserve at Medina 2nd Addition, Medina.
u.					2017-045	Fish Lake Estates, Maple Grove.
v.					2017-046W	Wessell Property Wetland Delineation, Corcoran.
w.					2017-048W	Ebert Parcel Wetland Delineation, Corcoran.
x.		E			2017-050W	Ernie Mayer Wetland/floodplain violation, Corcoran.
y.				AR	2017-051	Mallard South 2nd Addition, Rogers.
z					2017-053	Sunrise Solar, Corcoran.
aa.				AR	2018-001	Rush Creek Commons, Maple Grove.
ab.					2018-004	Rush Creek Restoration, Maple Grove.
ac.					2018-005	Sundance Greens, Dayton.
ad.					2018-007	Copper Creek of Nottingham, Maple Grove.
af.					2018-008	Hayden Hills Golf Course, Dayton.
ag.					2018-009	Plymouth NW Greenway Trail Phase IV, Plymouth.
ah.					2018-012	Meadows Playfields, Plymouth.
ai.	A	E			2018-013	Wayzata Elementary School #9, Plymouth.
aj.					2018-014	Fehn Meadows 2nd Addition, Corcoran.
ak.					2018-015	Laurel Creek 2nd Addition, Rogers.
al.					2018-016	Krueger Wetland Delineation, Corcoran.
am					2018-017	Larkin Road Wetland Delineation, Corcoran.
an.					2018-018	Summers Edge Phase II, Plymouth.
ao.					2018-019	Fuss Wetland Delineation, Corcoran.
ap.	A	E			2018-020	North 101 Storage, Rogers.
aq.	A	E			2018-021	113th Lane Extension/Brockton/101, Rogers.
ar.					2018-022	Fernbrook Fields, Maple Grove.
as.					2018-023	King Solutions Distribution Center, Dayton
at.					2018-024	Schober Wetland Delineation, Corcoran.
au.					2018-025	Watten Wetland delineation/Replacement Plan, Corcoran.
av.					2018-026	Windrose, Maple Grove.
aw.					2018-027	CR202 Bridge, Dayton.
ax					2018-028	Tricare third Addition, Maple Grove.
ay					2018-029	McConn, Plymouth
az						

A = Action item E = Enclosure provided I = Informational update will be provided at meeting RPI - removed pending further information
R = Will be removed RP= Information will be provided in revised meeting packet..... D = Project is denied AR awaiting recordation

*in meeting packet
**available at meeting

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

Elm Creek Watershed Management Commission 2018 Treasurer's Report

		2018 Budget	June 2018	July 2018	2018 Budget YTD
EXPENSES					
Administrative		90,000	6,049.05	5,486.58	45,673.43
Watershed-wide TMDL Admin		2,500			0.00
Grant Writing		4,000			0.00
Website		6,000	45.65	180.00	816.05
Legal		2,000			77.50
Audit		5,000			4,500.00
Insurance		3,900			2,993.00
Miscellaneous/Contingency		1,000			0.00
Project Reviews	HCEE	95,000	26,738.71		26,738.71
Project Reviews	Consult	12,000	240.00	2,914.50	6,037.50
Project Reviews	Admin	14,000	1,107.27	1,409.88	6,032.87
WCA-Technical	HCEE	17,750	4,506.89		4,506.89
WCA	Legal	500			0.00
WCA	Admin	1,500	78.34	644.36	1,182.27
Floodplain Mapping			200.31		201.74
Stream Monitoring		24,900			0.00
Extensive Stream Monitoring		7,600			0.00
DO Longitudinal Survey		1,000			0.00
TMDL Follow-up - TRPD		5,000			0.00
Rain Gauge		250	16.65	19.62	102.71
Rain Gauge Network		100			0.00
Lakes Monitoring - CAMP		720			0.00
Lakes Monitoring - TRPD					
Sentinel Lakes		3,300			0.00
Additional Lake		825			0.00
Aquatic Vegetation Surveys		1,100			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		4,000	91.15	4.25	1,447.13
WMWA General Activities		4,000			2,000.00
WMWA Educators/Watershed Prep		4,500			2,250.00
WMWA Special Projects		2,000			1,000.00
Rain Garden Workshops		2,000			0.00
Education Grants		2,000			0.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Projects ineligible for ad valorem		50,000			0.00
Studies / Project ID / SWA		35,000	397.50		1,565.79
Plan Amendments		2,000	215.50		885.73
Local Plan Review		8,000			0.00
<i>Transfer to (from) Encumbered Funds (see below)</i>					0.00
<i>Transfer to (from) Capital Projects (see CIP Tr</i>		490,000			248,261.87
<i>Transfer to (from) Cash Sureties (see below)</i>			120,510.60	60.00	120,570.60
<i>Transfer to (from) Grants (see below)</i>			265.26	2,413.91	27,432.33
<i>To Fund Balance</i>					0.00
TOTAL - Month			160,462.88	13,133.10	504,276.12
TOTAL Paid in 2018, incl 2017 Expenses		910,445.00	545,462.56	558,595.66	2018 Paid

Elm Creek Watershed Management Commission 2018 Treasurer's Report

		2018 Budget	June 2018	July 2018	2018 Budget YTD
INCOME					
<i>From Fund Balance</i>					
Project Review Fee		80,000	2,895.50		45,227.50
Return Project Fee					(6,150.00)
Water Monitoring - TRPD Co-op Agmt		6,500			0.00
WCA Fees		10,000	1,000.00		1,850.00
Return WCA Fee					0.00
Reimbursement for WCA Expense					727.50
WCA Escrow Earned					0.00
Member Dues		225,000			225,000.00
Interest/Dividends Earned		1,000	1,396.51		7,490.21
Transfer to (from) Capital Projects (see CIP Tr		490,000			0.00
Transfer to (from) Grants (see below)			-	-	100,112.00
Misc Income					0.00
Total - Month			5,292.01	0.00	374,257.21
TOTAL Funds Rec'd in 2018, incl 2017 Inco		812,500.00	384,519.61	384,519.61	2018 Received
CASH SUMMARY		Balance Fwd			
Checking		-9,220.00			
4M Fund		1,118,838.76	948,675.81	935,542.71	
Cash on Hand			948,675.81	935,542.71	
CASH SURETIES HELD		Balance Fwd			Activity 2018
WCA Escrows Received		150,570.60			0.00
WCA Escrow Reduced		0.00	-120,510.60	-60.00	-120,570.60
Total Cash Sureties Held		150,570.60	30,060.00	30,000.00	
RESTRICTED / ENCUMBERED FUNDS		Balance Fwd			
<i>Restricted for CIPs</i>		129,049			129,048.57
<i>Enc. Studies / Project Identification / SWA</i>		62,832			62,831.80
<i>Assigned Extensive Stream Monitoring</i>		1,000			0.00
Total Restricted / Encumbered Funds		191,880	190,880.37	190,880.37	
			June 2018	July 2018	2018 Budget YTD
GRANTS					
Fish Lake CWLA					
Revenue					80,000.00
Expense					181.62
Balance			-	-	79,818.38
Rush Creek SWA					
Revenue					20,112.00
Expense			265.26	2,413.91	27,250.71
Balance			(265.26)	(2,413.91)	(7,138.71)
TOTAL GRANTS					
Revenue			-	-	100,112.00
Expense			265.26	2,413.91	27,432.33
Balance			(265.26)	(2,413.91)	72,679.67

Elm Creek Watershed Management Commission 2018 Treasurer's Report

Claims Presented		General Ledger Account No	June	July	TOTAL
Campbell Knutson - Legal		521000			0.00
Connexus - Rain Gauge		551100		19.62	19.62
Barr Engineering - Proj Rev Consultant		578050		2,914.50	2,914.50
Wenck					1,219.50
Grant - Rush Creek SWA		584002		1,219.50	
Third Gen Plan Technical		542500			
Plan Amendment Technical		541500			
JASS					8,979.48
Administration		511000		5,239.50	
TAC Support		511000		13.75	
Annual Report		511000		233.33	
Website		581000		180.00	
Project Reviews		578100		1,409.88	
WCA		579000		644.36	
WCA Admin Park Place Storage Escrow		240301		60.00	
Plan Amendment		541500			
Education		590000		4.25	
CIPs General		563001			
CIP 2014-02 Champlin Mill Pond Dam		563003			
CIP 2016-03 EC Dam at Mill Pond		563007			
Grant Opportunities		511000			
Grant - Fish Lake CWLA		584001			
Grant - Rush Creek SWA		584002		1,194.41	
Floodplain Mapping		580430			
TOTAL CLAIMS					13,133.10

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

CIPs		Amount	%age	TOTAL 2014	TOTAL 2015	TOTAL 2016	TOTAL 2017	JAN 2018	FEB 2018	MAR 2018	APR 2018	MAY 2018	JUN 2018	JUL 2018	TOTAL 2018	TOTAL ALL YEARS
2014-01 Medina Tower Drive		68,750	52.380													
	Revenue			-	68,916.44	(37.13)	(15.52)								-	68,863.79
	Expense			1,989.80	-	-	-								-	1,989.80
	Balance			(1,989.80)	68,916.44	(37.13)	(15.52)								-	66,873.99
2014-02 Champlin Mill Pond Dam		62,500	47.620													
	Revenue			-	62,653.69	(33.75)	(14.11)								-	62,605.83
	Expense			1,631.81	-	-	-				75.00				75.00	1,706.81
	Payment to City										60,793.19				60,793.19	60,793.19
	Balance (unexpended funds)			(1,631.81)	62,653.69	(33.75)	(14.11)				(60,868.19)				(60,868.19)	105.83
2015-01 Plymouth Elm Creek Restoratio		250,000.00	100.000													
	Revenue				-	249,866.05	1,273.36									251,139.41
	Expense				2,606.17	280.99	-									2,887.16
	First Half Payment					122,112.84	-									122,112.84
	Second Half Partial Payment					123,163.52	-									123,163.52
	Final Payment						1,836.48									1,836.48
	Balance (unexpended funds)				(2,606.17)	4,308.70	(563.12)									1,139.41
2016-01 Fox Creek Phase 2 Bank Stabili		80,312.00	16.296													
	Revenue				-	-	80,353.26								-	80,353.26
	Expense				-	106.32	-								-	106.32
	Balance				-	(106.32)	80,353.26								-	80,246.94
2016-02 Miss River Shore Repair/Stabili		75,000.00	15.219													
	Revenue				-	-	75,042.75								-	75,042.75
	Expense				-	106.32	-								-	106.32
	Balance				-	(106.32)	75,042.75								-	74,936.43
2016-03 EC Dam at Mill Pond		187,500.00	38.047													
	Revenue				-	-	187,604.39								-	187,604.39
	Expense				-	106.32	-				75.00				75.00	181.32
	Payment to City										187,318.68				187,318.68	187,318.68
	Balance (unexpended funds)				-	(106.32)	187,604.39				(187,393.68)				(187,393.68)	104.39
2016-04 Rush Creek Main Stem Restora		75,000.00	15.219													
	Revenue				-	-	75,042.75								-	75,042.75
	Expense				-	106.32	-								-	106.32
	Balance				-	(106.32)	75,042.75								-	74,936.43
2016-05 Fish Lake Alum Trmt Phase 1		75,000.00	15.219													
	Revenue				-	-	75,042.75								-	75,042.75
	Expense				-	106.32	-								-	106.32
	Balance				-	(106.32)	75,042.75								-	74,936.43

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

CIPs		Amount	%age	TOTAL 2014	TOTAL 2015	TOTAL 2016	TOTAL 2017	JAN 2018	FEB 2018	MAR 2018	APR 2018	MAY 2018	JUN 2018	JUL 2018	TOTAL 2018	TOTAL ALL YEARS
	2017-01 Fox Creek Phase 3 Streambank	112,500.00	25.714													
	Revenue				-	-	-								-	-
	Expense				-	-	135.85								-	135.85
	Balance				-	-	(135.85)								-	(135.85)
	2017-03 Mill Pond Fishery & Habitat Res	250,000.00	57.143													
	Revenue				-	-	-								-	-
	Expense				-	-	135.86								-	135.86
	Balance				-	-	(135.86)								-	(135.86)
	2017-04 Rain Garden at Independence A	75,000.00	17.143													
	Revenue				-	-	-								-	-
	Expense				-	-	135.85								-	135.85
	Balance				-	-	(135.85)								-	(135.85)
TOTAL CIP																
	Revenue			-	131,570.13	249,795.17	494,329.63	-	-	-	-	-	-	-	-	875,694.93
	Expense			3,621.61	2,606.17	812.59	407.56	-	-	-	150.00	-	-	-	150.00	7,597.93
	Payments					245,276.36	1,836.48	-	-	-	248,111.87	-	-	-	248,111.87	495,224.71
	Balance			(3,621.61)	128,963.96	3,706.22	492,085.59	-	-	-	(248,261.87)	-	-	-	(248,261.87)	372,872.29

**Account Number:****481113-238425**

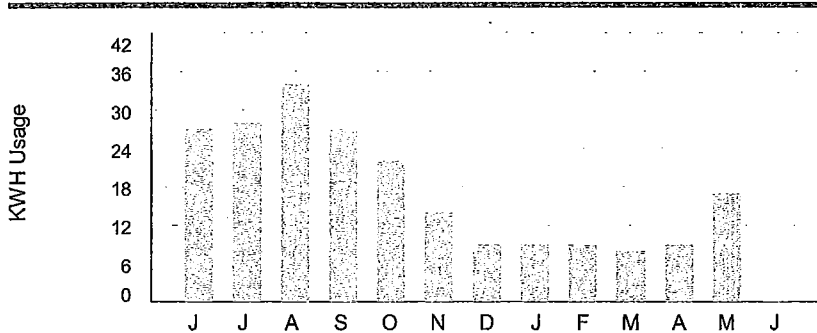
ELM CREEK WATERSHED MGMT ORG

Monthly Statement**Service Address**ELM CREEK RD
DAYTON MN**Billing Summary****Billing Date:** Jun 18, 2018

Previous Balance	\$16.65
Payments - Thank You!	\$16.65
Balance Forward	\$0.00
New Charges	\$19.62

Total Amount Due **\$19.62**

Payment must be received on or before July 13, 2018

Total Amount Due**\$19.62****Due Date****July 13, 2018****Message Center****Energy Comparison** Previous Months' Usage Current Month's Usage**How to contact us**

Member Services / Moving - 763-323-2650
 Outages and Emergencies - 763-323-2660
 Hearing/Speech Impaired Call - 711 or 800-627-3529
 Email: info@connexusenergy.com
www.connexusenergy.com
 Gopher State One Call - 811
14601 Ramsey Boulevard, Ramsey, MN 55303

▼ Please detach at perforation and return this portion with a check or money order made payable to Connexus Energy ▼

TRA3-D-008123/000672 AGVUAY S1-ET-M1-C00002 1:

**Account Number:****481113-238425****Total Amount Due****\$19.62****Payment Due By****July 13, 2018**

008123 1 AB 0.405 000527/008123/000672 035 01 AGVUAY
 ELM CREEK WATERSHED MGMT ORG
 3235 FERNBROOK LN N
 PLYMOUTH MN 55447-5325



Connexus Energy
 PO Box 1808
 Minneapolis, MN 55480-1808

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INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Ms. Judie Anderson
Elm Creek Watershed Management
JASS-Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447

June 15, 2018
Invoice No: 23270F55.05 - 4

Total this Invoice	\$157.00
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Regarding: Elm Creek Wetland Mitigation Monitoring

This invoice is for professional services related to Elm Creek Wetland Mitigation Monitoring project, which included the following tasks:

Job 001 – Ravinia Wetland Mitigation

Task 002 –2018 Monitoring and Report

- Review of quote from In-situ for monitoring equipment
- Internal meeting to discuss hydrology monitoring
- Project management and invoicing

Professional Services from April 21, 2018 to May 18, 2018

Job:	001	Ravinia Wetland Mitigation
Task:	002	2018 Monitoring and Report

Labor Charges

		Hours	Rate	Amount
Engineer / Scientist / Specialist III				
Wold, Karen	4/23/2018	.20	125.00	25.00
Engineer / Scientist / Specialist II				
Burgner, Brian	4/23/2018	.60	100.00	60.00
Support Personnel I				
Nypan, Nyssa	5/18/2018	.80	90.00	72.00
		1.60		157.00
Subtotal Labor				157.00

Task Subtotal \$157.00

Job Subtotal \$157.00

Total this Invoice \$157.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	157.00	2,141.40	2,298.40	2,141.40	157.00

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact your Barr Project Manager, Jeff Weiss, Phone: 952-832-2706 or E-Mail: jweiss@barr.com.

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.



INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Ms. Judie Anderson
Elm Creek Watershed Management
JASS-Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447

June 15, 2018
Invoice No: 23270F55.03 - 91

Total this Invoice	\$2,759.50
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Regarding: Development Reviews

This invoice is for professional services related to Elm Creek Watershed Management Commission project reviews, which included the following tasks:

Task 166 – Hayden Hills

- Review of permit application materials
- Communications with other technical staff regarding project features
- Meet with developer and City staff to discuss the project
- Summarizing the findings for the ECWMC packet
- Preparation of a presentation for the ECWMC
- Present findings at the May ECWMC meeting

Professional Services from April 21, 2018 to May 18, 2018

Job:	JOB3	Project Review
Task:	166	Hayden Hills

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist III Weiss, Jeffrey	16.90	130.00	2,197.00
Engineer / Scientist / Specialist II Hlavaty, Heather	4.50	95.00	427.50
Engineer / Scientist / Specialist I Baker, Kimberly	.30	90.00	27.00
Support Personnel I Nypan, Nyssa	1.20	90.00	108.00
	22.90		2,759.50
Subtotal Labor			2,759.50
		Task Subtotal	\$2,759.50
		Job Subtotal	\$2,759.50
		Total this Invoice	\$2,759.50

Outstanding Invoices

Invoice	Date	Balance
90	5/18/2018	3,094.00
Total		3,094.00

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact your Barr Project Manager, Jeff Weiss Phone: 952-832-2706 or E-Mail: jweiss@barr.com.

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

Invoice

July 9, 2018

Invoice No: 11804442

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



Responsive partner.
Exceptional outcomes.

Project Manager Diane Spector

Project B1507-0003 Rush Creek Headwaters SWA

Professional Services Through June 30, 2018

Phase 03 Meetings and Reporting

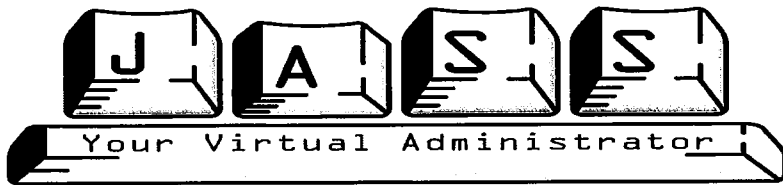
Meetings and Reporting

Professional Personnel

	Hours	Rate	Amount	
Spector, Diane	4.00	185.00	740.00	
Strom, Jeffrey	3.50	137.00	479.50	
Totals	7.50		1,219.50	
Total Labor				1,219.50
		Phase Total		\$1,219.50
		Total Invoice Amount		\$1,219.50

	Current	Prior	Total
Billing Summary	1,219.50	55,479.32	56,698.82

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



3235 Fernbrook Lane
Plymouth MN 55447

Elm Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

9-Jul-18

Total by
Project Area

Administrative		50.00	0.00	
Administrative	6.19	55.00	340.45	
Administrative	47.61	60.00	2,856.60	
Admin - Offsite	2.46	65.00	159.90	
Office Support	5.00	200.00	1,000.00	
Storage Unit	1.00	138.74	138.74	
Data Processing/File Mgmt	1.50	55.00	82.50	
File Management		60.00	0.00	
Archiving	3.25	55.00	178.75	
Admin - Reimbursable Expense	482.56	1.00	482.56	5,239.500
Admin - TAC support	0.25	55.00	13.75	
Admin - TAC support		60.00	0.00	
Admin - TAC support offsite		65.00	0.00	
TAC Support - Reimbursable Expense		1.00	0.00	13.750
Website		55.00	0.00	
Website	3.00	60.00	180.00	
Website - Reimbursable Expense		1.00	0.00	
Web Domain, hosting		1.00	0.00	180.000
Annual Reporting/Work Plans		55.00	0.00	
Annual Reporting	3.42	60.00	205.20	
Annual Report - Reimbursable Expense	28.13	1.00	28.13	233.330
Project Reviews - Secre		55.00	0.00	
Project Reviews - Admin	13.24	60.00	794.40	
Project Reviews - Admin offsite		65.00	0.00	
Project Reviews - Admin - File Mgmt		55.00	0.00	
Project Reviews - Reimbursable Expense	615.48	1.00	615.48	1,409.880
WCA - Secre		55.00	0.00	
WCA - Admin	2.17	60.00	130.20	
WCA - Reimbursable Expense	278.66	1.00	278.66	408.860
WCA - Secre - reimbursable		55.00	0.00	
WCA - Admin - reimbursable	1.25	60.00	75.00	
WCA - Reimbursable Expense - reimbursable	220.50	1.00	220.50	295.500
Education - Secretarial		55.00	0.00	
Education - Admin		60.00	0.00	
Education - Admin Offsite		65.00	0.00	
Education - Reimbursable Expense	4.25	1.00	4.25	4.250
Rush Creek SWA - Admin		55.00	0.00	
Rush Creek SWA - Admin	5.80	60.00	348.00	
Rush Creek SWA - offsite	2.25	65.00	146.25	
Rush Creek SWA - reimbursable expense	700.16	1.00	700.16	1,194.410

Invoice Total

8,979.480

elm creek

Watershed Management Commission

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3235 Fernbrook Lane
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North 101 Storage Site Improvement Project **Rogers, Project #2018-020**

Project Overview: This existing 3.1-acre commercial property consists of three mini-storage units and outdoor storage. The owners propose to add four new storage buildings and expand two of the three existing units. Site improvements will also include pavement and utilities along with improvements for better exterior and interior access. Because over 50% of this site is being redeveloped, the Commission's rules require compliance to Rule D (Stormwater Management) and Rule E (Erosion and Sediment Control) for the complete site.

Applicant: North 101 LLC, Attn. Chuck Van Heel, 21395 John Millness Drive, Suite 300, Rogers, MN 55374. Phone: 612-396-7410. Email: cvanheel@vantage-point-partners.com

Agent: Civil Engineering Site Design, Attn: Scott Dahlke, P.O. Box 566, 118 East Broadway Street, Monticello, MN 55362. Phone: 763-314-0929. Email: sahlke@civilesd.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval, received May 14, 2018.
- 2) Project review fees for commercial/industrial redevelopment on 3.0 acres (\$800.00)
- 3) June 1, 2018, ECWMC email outlining compliance requirements for projects disturbing over 50% of site area.
- 4) Site plans, dated May 9, 2018
 - a. Sheet C0, Project Location Plan
 - b. Sheet C1, Site Plan
 - c. Sheet C2, Grading and Drainage Plan
 - d. Sheet C3, Water Utility Plan
 - e. Sheet C4, Storm Sewer Utility Plan, revised June 11, 2018
 - f. Sheet C5, Storm Water Pollution Prevention Plan
 - g. Sheet C6, Existing Conditions and Removals Plan
 - h. Sheet C7, Details
 - i. Sheet C8, Details, revised June 11, 2018.
- 5) North 101 Storage Drainage Analysis dated May 9, 2018, revised June 11, 2018.

Findings:

- 1) A complete set of plans was received on June 29, 2018. The ECWMC 60-day decision deadline per MN Statute 15.99 expires August 28, 2018.
- 2) The Commission's rules require compliance to Rule D (Stormwater Management) and Rule E (Erosion and Sediment Control) for the complete site. Because the project is

disturbing over 50% of the site area (100% actual), our review will be the same as a new development and stormwater management plans must comply with all impervious areas, not just the new impervious area.

Stormwater Management

- 3) Currently approximately ½ of the site drains to the west into the Northdale Blvd. ditch. The other ½ drains south into a storm sewer system in the parking/dock areas of the adjacent property. Historically, no stormwater treatment was provided for this site.
- 4) The project proposes to collect 1.6 acres of the storm water runoff in an underground-perforated pipe system. This pipe system will be laid on a flat grade in sandy soils and with an elevated outlet discharge elevation. The system will contain the equivalent of the 1.1” storm water volume for the impervious areas of the complete site before it outlets into the natural sandy soils below it.
- 5) Rate controls will meet the Commission’s requirements as shown below;

Drainage Area (3.07 acres)	2-year Flow Rate (cfs)		10-year Flow Rate (cfs)		100-year flow rate (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Site total	5.3	3.6	9.5	6.8	19.3	17.9

- 6) Abstraction volume requirements are based on 2.80 acres of impervious area, or 11,190 cubic feet of water. Site plans meet the Commission abstraction requirements if the following items are provided and confirmed.
 - a. The design assumes the soil infiltration rate is 0.8” per hour. Actual infiltration measurements must be determined by a double-ring infiltrometer test per ASTM Standard D3385 at an elevation of 902.5 (bottom elevation of the infiltration area). The measured infiltration rate shall be divided by the appropriate correction factor selected from the MN Stormwater Manual.
 - b. Volume and pipe size calculation in the HydroCad design do not match the storm sewer plans. HydroCad uses 36” pipe for the entire length of the infiltration area. The site plans use 36” pipe for 323’ and 18” for 416’. These design assumptions must match each other and the plans changed accordingly.
 - c. All Eight (8) of the catch basin manholes that receive water from this site will be constructed with 3 foot sumps for pretreatment.
 - i. ECWMC requires an outlet skimmer to prevent migration of floatables and oils for at least the two-year storm event prior to discharge from the site.
 - d. An operation and maintenance plan for the infiltration system approved by the Commission and Rogers and must be recorded on the land tile for this property.

Water Quality (Nutrient and TSS) and Runoff Volume Summary				
Development Name:North 101 Storage				
Total Parcel Area:3.07 acres				
Total Lot Area:3.07 acres				
Total Buildable Area:~3.00 acres				
Total New Impervious Area:2.80 acres				
Nearest Downstream Surface Water:Crow River				
Condition	TP Load (lbs./yr) ¹	TSS Load (lbs./yr) ¹	Abstraction Volume Credit (ac-ft) ²	Filtered Volume Credit (ac-ft) ²
Pre-development (baseline) Load	4.0	720	11,532 (11,190 required)	0
Post-development Without Mitigation	4.9	886		
Post-development With Mitigation	2.2	398		
Net Change ("baseline" compared to "post-development with mitigation")	-1.8	-322		

Grading and Erosion Control

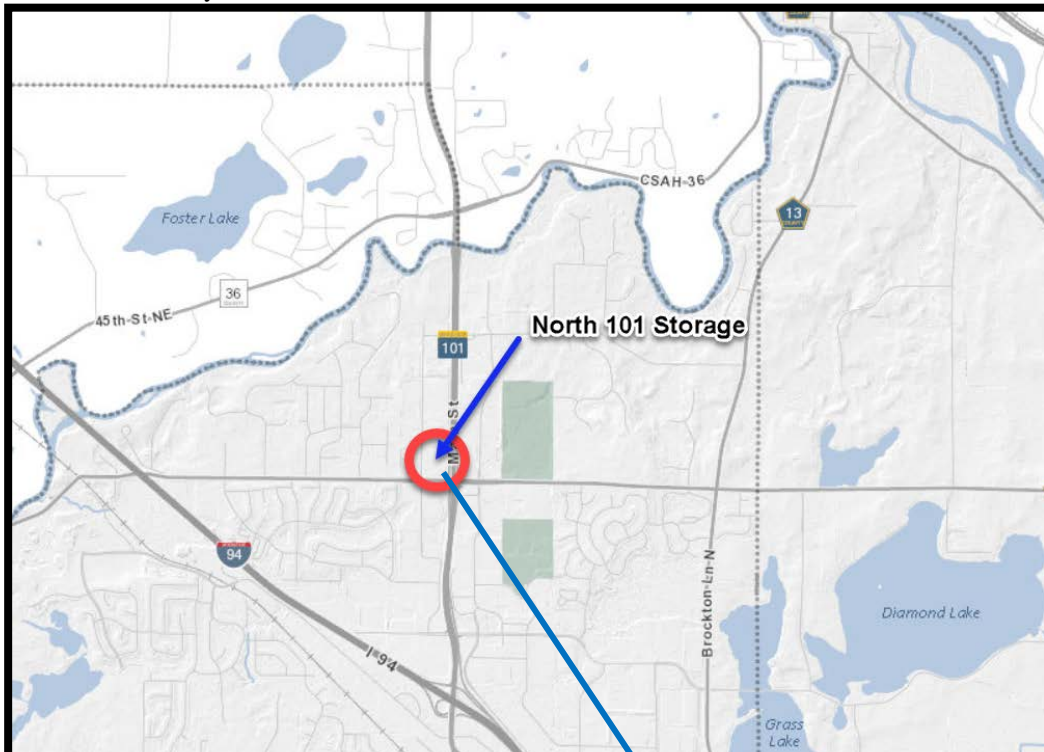
- 7) Site grading extends offsite into the property to the north. Although not a Commission requirement, permission from the adjacent landowner is necessary.
- 8) 2:1 slopes are proposed in the road ditch section near the SW entryway. Although not a Commission requirement, we recommend 3:1 or flatter slopes or specific engineering sign off on this area.
- 9) Erosion controls meet the Commission's requirements.

Recommendation: Contingent approval pending final staff approval of items 6 a., b., c., and d.

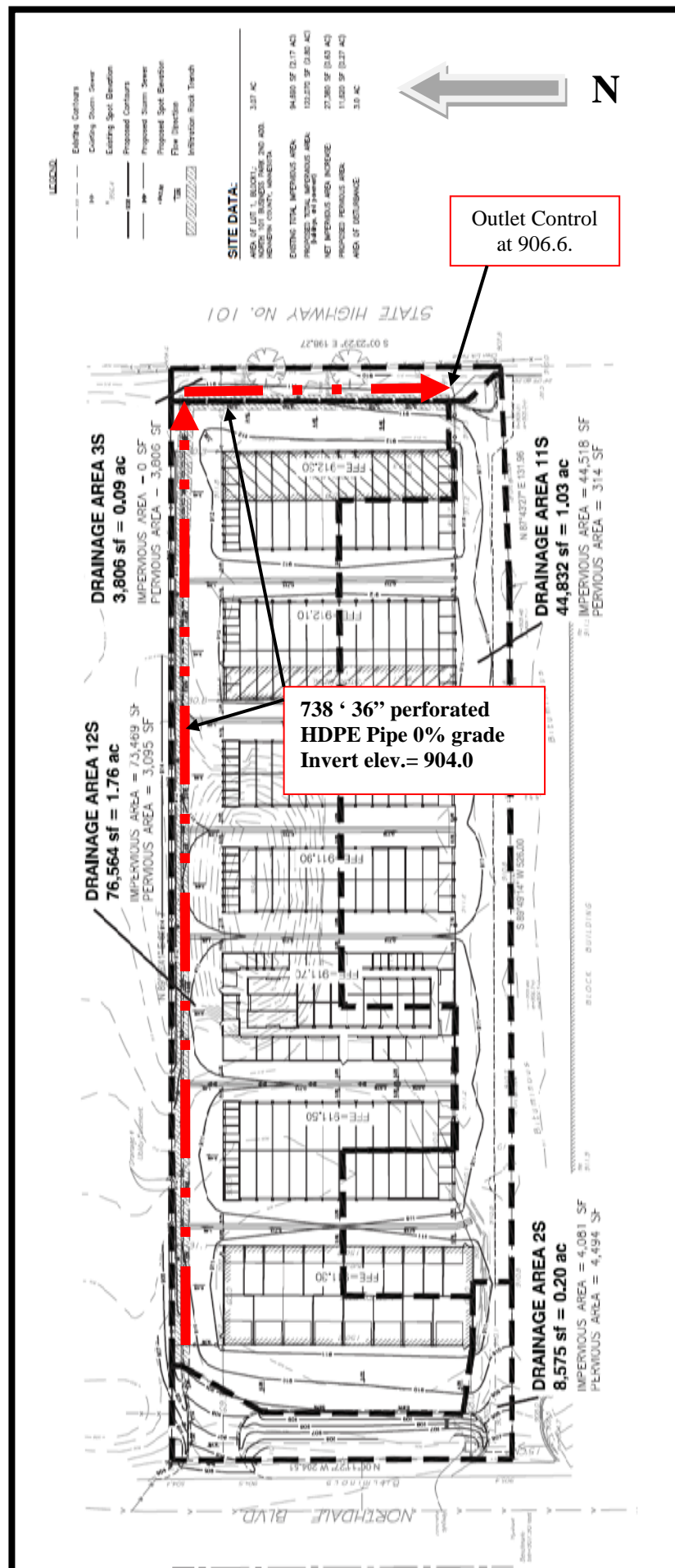
Hennepin County
Department of Environment and Energy
Advisor to the Commission



July 9, 2018
Date



HWY 101



elm creek

Watershed Management Commission

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E-mail: james.kujawa@co.hennepin.mn.us

113th Lane Extension & Brockton Lane/CSAH 101 Intersection **City of Rogers, Project #2018-021**

Project Overview: This project is located at CSAH 101 (Brockton Lane North) and the planned 113th Lane Extension in Rogers, MN. The project will include the extension of 113th Lane to Laurel Creek Development (ECWMC Project Reviews 2017-014 and 2018-015), the addition of turning lanes on CSAH 101, and the reconstruction of the intersection for CSAH 101 and 113th Lane, resulting in 3.46 acres of new impervious area. The project will also include an expanded basin design for stormwater management and water quality improvements. Construction is anticipated to begin in August 2018.

Applicant: City of Rogers, Attn: John Seifert, 22350 South Diamond Lake Road, Rogers, MN 55374. Phone: 763-428-8580. Email: jseifert@rogersmn.gov.

Engineer/Agent: WSB & Associates, Attn: Laura Messman, 701 Xenia Ave S #300, Minneapolis, MN 55416. Phone: 763-762-2833. Email: lmessman@wsbeng.com.

Exhibits:

- 1) ECWMC Request for Plan Review and Approval and fee, dated April 27, 2017 but not received until May 18, 2018.
- 2) WSB & Associates Memorandum dated May 03, 2018.
- 3) Hydraulic Report, signed, dated May 02, 2018.
 - a. Pages 4-6: Narrative and Correspondence
 - b. Pages 8-46: Plan excerpts including:
 - i. Typical Sections (9-10)
 - ii. Construction Plans (11-15)
 - iii. Storm Sewer Design (16-20)
 - iv. Drainage Area Maps (21-23)
 - v. Catch Basin Spacing Calculations (24-29)
 - vi. Pipe Design Calculations (30-32)
 - vii. Drainage Details, Plans, Profiles, and Tabulations (33-38)
 - viii. SWPPP and ESC Plan (39-46)

- c. Appendix A: Drainage Area Maps.
 - d. Appendix B: Water Quality Information.
 - e. Appendix C: HydroCAD Results.
 - f. Appendix D: Laurel Creek Development Information.
- 4) 60% Plans, unsigned by WSB engineer and others, including City of Rogers and Hennepin County; additional sheets unsigned. Total of 76 sheets in plan set submitted.
- 5) Proposed Wetland Buffer map prepared by WSB & Associates.

Findings

- 1) A complete application was received on May 18, 2018. The initial 60-day review period per MN Statute 15.99 expires July 17, 2018.
- 2) The site is located on CSAH 101 immediately to the south of the Laurel Creek Development (ECWMC Project Reviews 2017-014 and 2018-015).
- 3) The project area is a total of 8.77 acres. Under existing conditions, the site contains 0.93 acres of impervious area (11%), and under proposed conditions, the site will contain 4.59 acres of impervious area (50%).
- 4) The entire project area eventually drains to the North Fork Rush Creek, which lies immediately to the south of the project area. Approximately half of the total drainage area and vast majority of the total new impervious area (89%) associated with the project drains to an expanded detention pond within the Laurel Creek development. A small portion of the project area drains to wetlands to the east, and the remaining area drains directly to the North Fork of Rush Creek.

Stormwater Management - Quantity

- 5) One pond within the Laurel Creek development plans has been expanded to receive runoff from the 113th Lane and CSAH 101 improvements.
- 6) The total pre- and post-project flow rates from the entire project area and individual outfalls are as follows:

Immediate Project Area	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (8.772 ac)	17.0	30.0	53.8
Post-Development Rate (8.772 ac)	18.8	32.0	57.6

Laurel Creek Development Plus New Project Area – Drainage to East	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate	23.3	34.3	85.5
Post-Development Rate	9.7	19.0	25.6

Laurel Creek Development Plus New Project Area – Drainage to North Fork Rush Creek	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
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Pre-Development Rate	128.9	229.2	490.9
Post-Development Rate	40.0	72.0	181.8

- 7) Based on 1.1" of water runoff from 3.46 acres of new impervious areas, 0.32 acre-feet of water abstraction is required per the Commission and MPCA requirements, and if considering this project with the entire Laurel Creek development, then the abstraction requirement is 5.93 acre-feet. The stormwater pond that receives runoff from this project is being used as a water re-use basin for irrigation in the Laurel Creek Development. The total abstraction computed for the basin and the overall development is 6.68 acre-feet. The overall development has excess abstraction, and the expansion of the pond for this project creates additional storage and volume for water re-use purposes.

Stormwater Management - Quality

- 8) Pre- and post-development analyses presented within the Hydraulic Report are as follows:

Condition	TP Load (lbs./yr) (PONDNET)	TSS Load (lbs./yr) (PONDNET)	Runoff volume (AF/yr.)
Pre-project without mitigation	11.8	1,077	N/A
Pre-project with Mitigation (baseline)	11.8	1,077	N/A
Post-project without Mitigation	N/A	N/A	N/A
Post-project with Mitigation	7.0	703	N/A
Net Change ("baseline" compared to "post-development with mitigation")	-4.8	-374	N/A

- 9) The ponds will be maintained by the City of Rogers, per the SWPPP provided in the Hydraulic Report.

Grading and Erosion Controls

- 10) The grading and erosion control plans satisfy the Commission's requirements.

Floodplain Impacts

- 11) The Applicant cites a net cut of 44,622 CY will affect a Zone A flood fringe area and that modeling in HEC-RAS shows as a no-rise.

Wetland Impacts and Buffers

- 12) The City of Rogers is the LGU for the Wetland Conservation Act and has approved mitigation for the wetland impacts on the site.
- 13) The ECWMC-required buffer is being established on the south side of 113th Lane.

Recommendation: approval contingent upon;
i. Submittal of signed final plans.

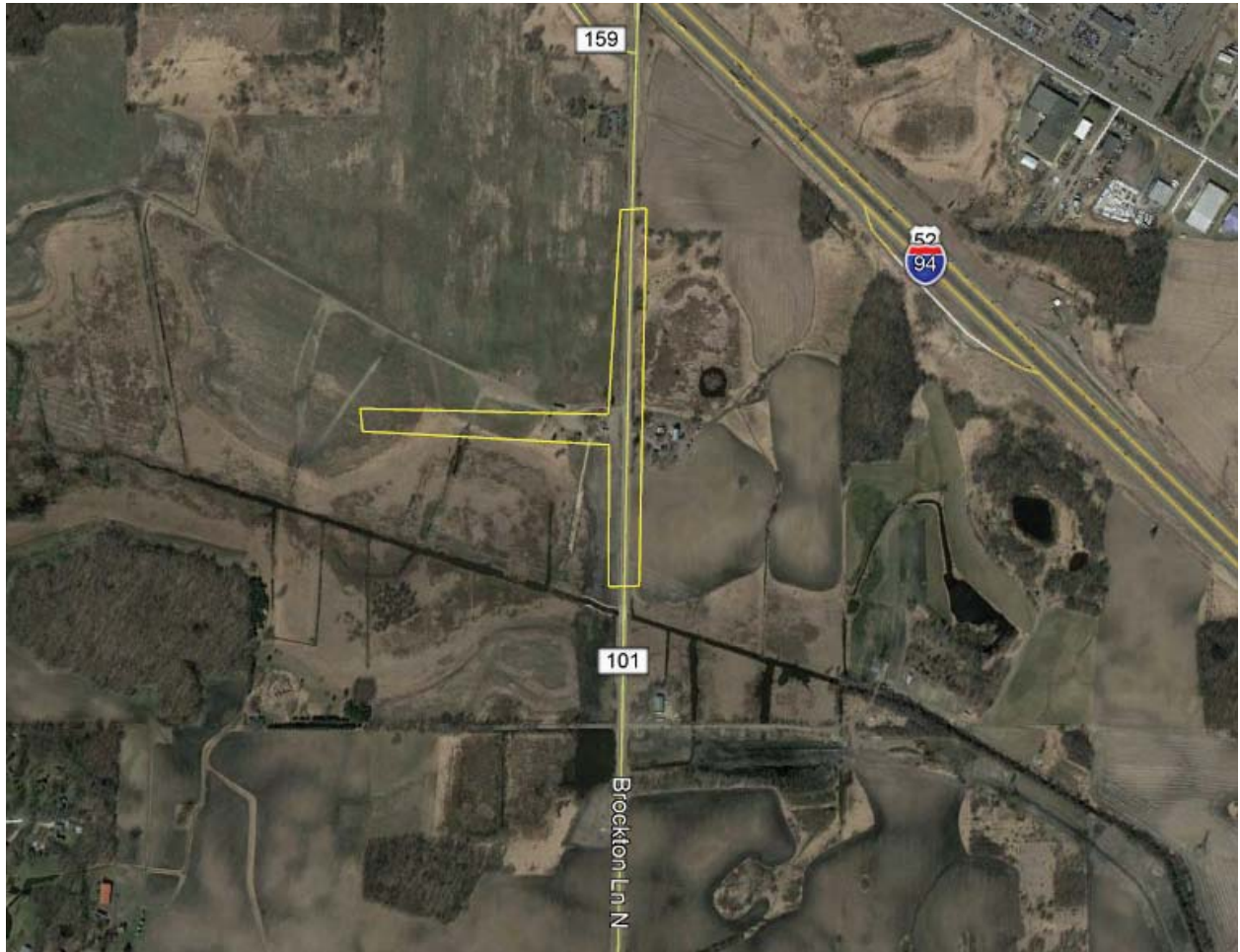
A handwritten signature in black ink, appearing to read "Jeff Weiss", with a stylized flourish at the end.

Jeff Weiss, P.E.
Barr Engineering Company
Advisor to the Commission

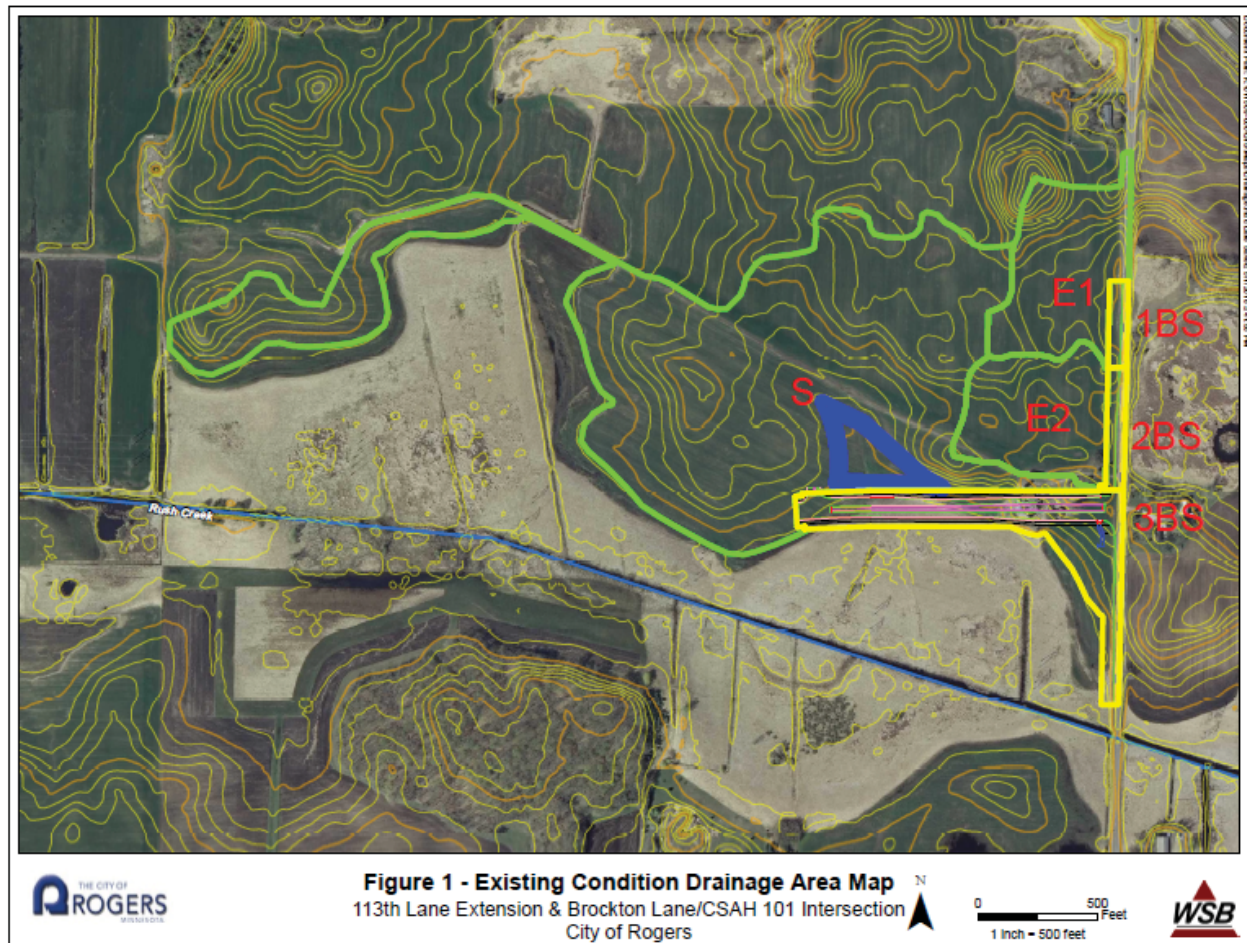
July 10, 2018

Date

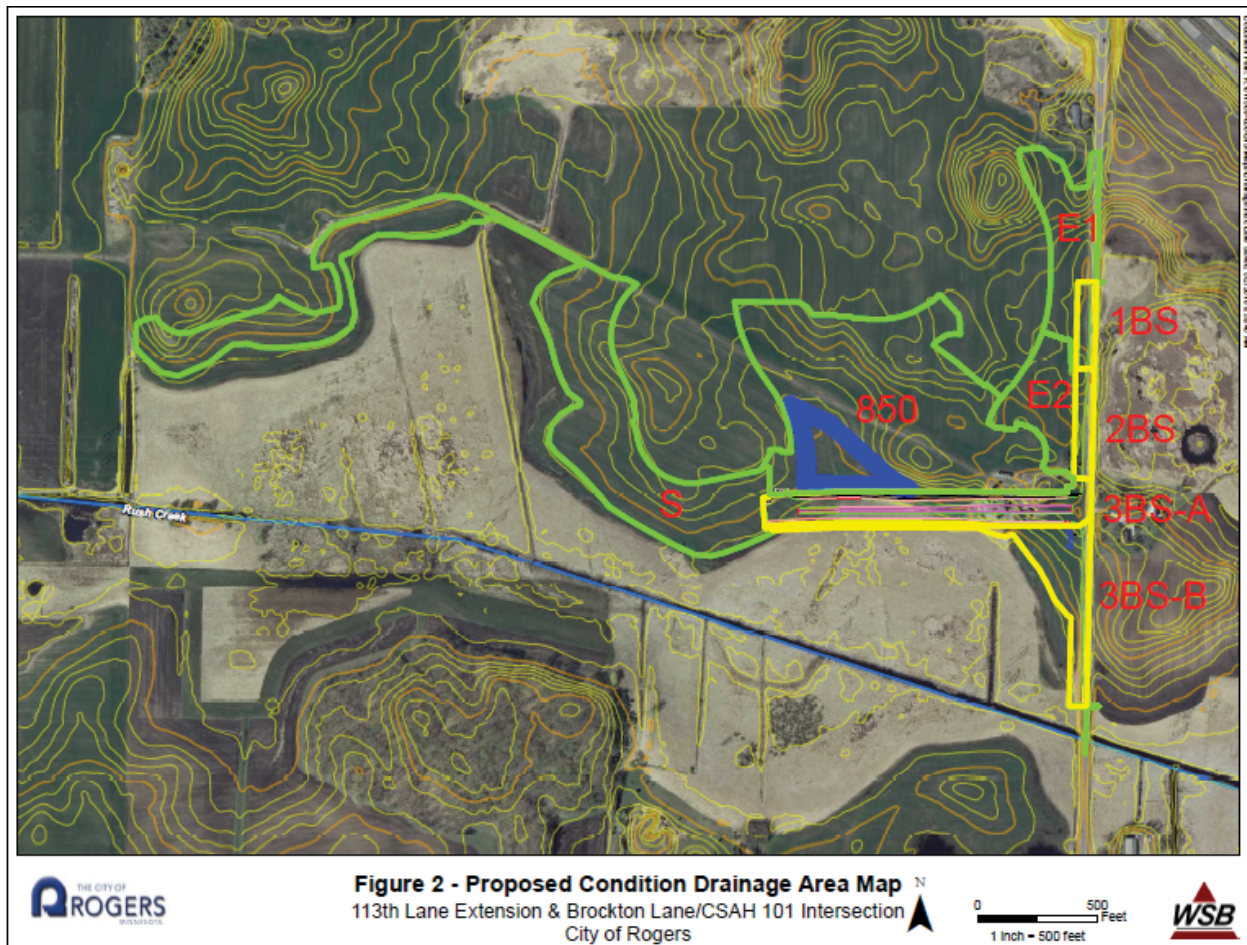
Location Map



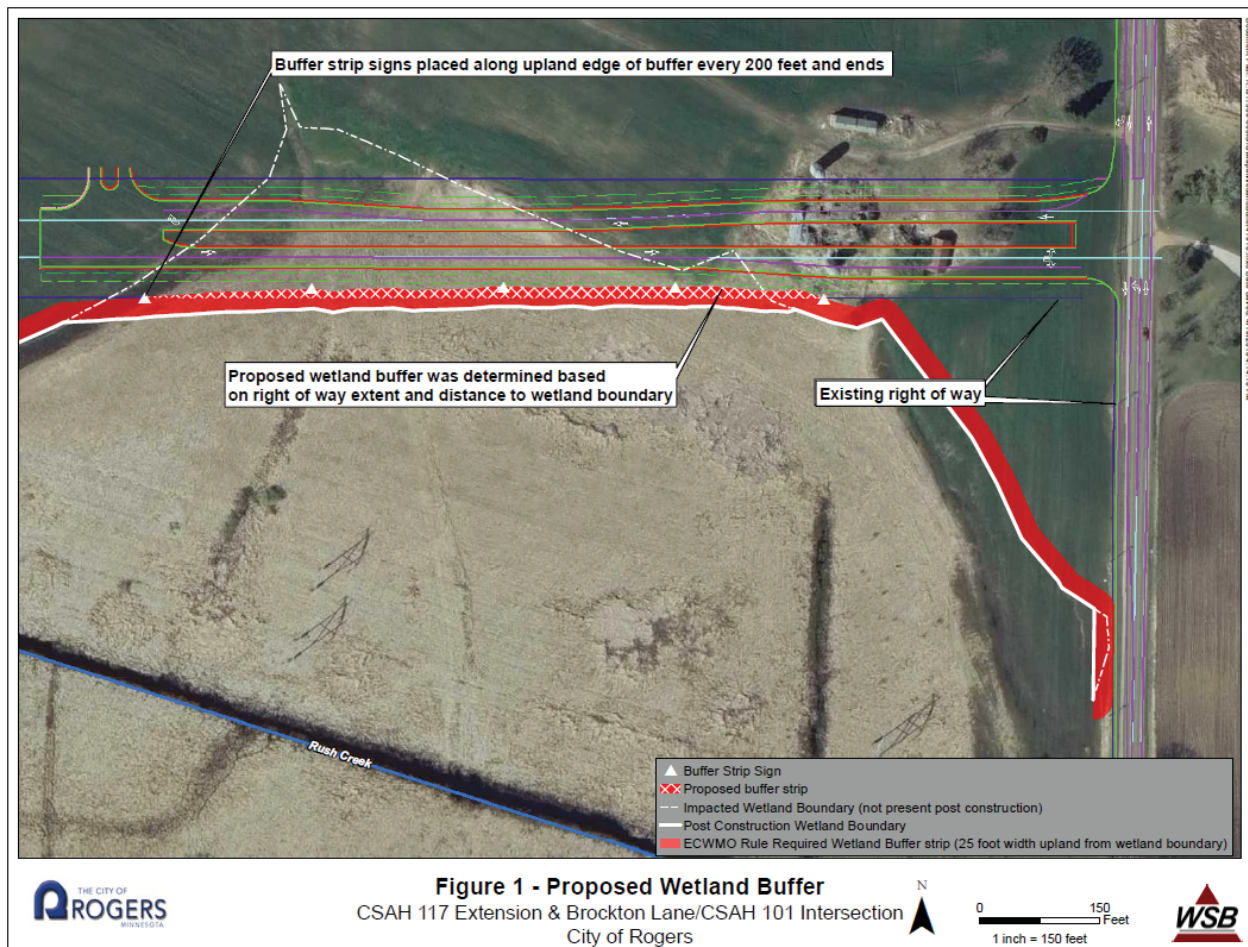
Existing drainage plan

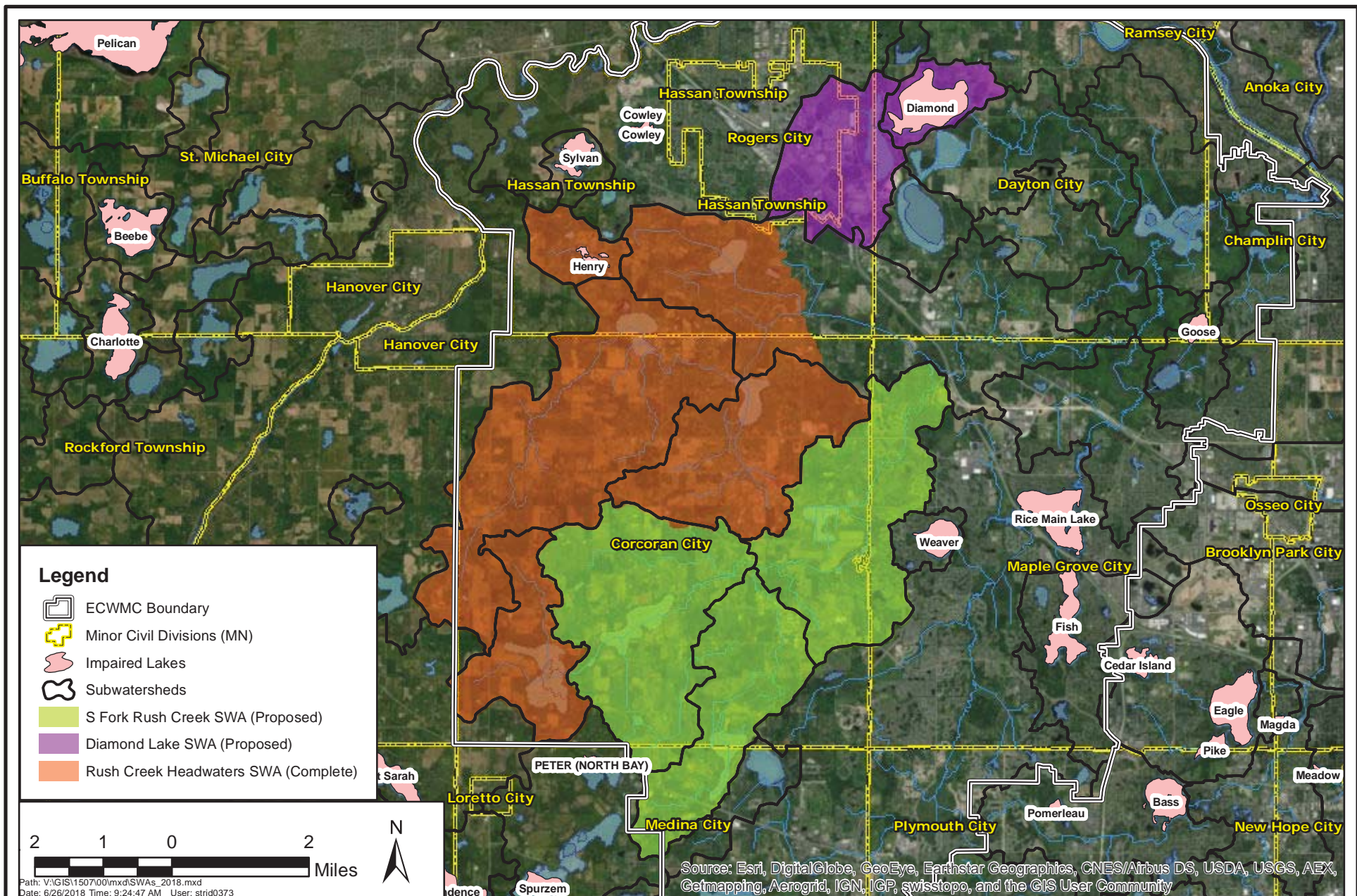


Proposed drainage plan



Proposed Wetland Buffer





ELM CREEK WATERSHED MANAGEMENT COMMISSION

Proposed SWA Schedule



Responsive partner. Exceptional outcomes.

JUNE 2018

Figure 1



12260 S. Diamond Lake Road
Dayton, Minnesota 55327
P: (763) 427-4589
F: (763) 427-3708
<http://www.cityofdaytonmn.com>

July 9, 2018

Doug Baines
Elm Creek Watershed Management Commission

Re: Request for Diamond Lake Subwatershed Assessment

Dear Mr. Baines:

The City of Dayton requests that the Elm Creek Watershed Management Commission undertake a subwatershed assessment (SWA) for the Diamond Lake watershed. This study would be similar to the Rush Creek Headwaters SWA, which was completed by the Commission in 2018.

As in the Rush Creek Headwaters SWA, to obtain funding for the project, we request that the Commission apply for an Accelerated Implementation Grant through the Clean Water Fund grant program. (BSWR has stated that 2018 may be the last year for the Accelerated Implementation Grant, so the application should be submitted in 2018.) If this grant is awarded to the Commission, the Commission would be responsible for providing a grant match of 25% of the project cost. We understand that according to the Commission's subwatershed cost share policy, member cities within the subwatershed (i.e., Dayton and Rogers) would be responsible for 25% of this match. Table 1 outlines the estimated project cost and breaks this cost down by potential funding sources.

Table 1. Estimated cost to complete the Diamond Lake SWA and potential funding sources.

	SWA Costs
Total Estimated Cost	\$48,000
Grant	\$38,400
Required Match	\$9,600
- Commission Match	\$7,200
- City Match	\$2,400
- Dayton	\$1,200
- Rogers	\$1,200

The purpose of the Diamond Lake SWA would be to identify high-loading areas and specific BMPs to reduce runoff phosphorus load and volume to Diamond Lake and Diamond Creek, both of which are listed as impaired waters by the MCPA. Once BMPs are identified, BMP locations, costs, and load reductions would also be identified. The above cost estimate also includes the cost of conducting a fish survey on Diamond Lake to understand the role of the fish community in managing water quality in the lake. The Commission and member cities (i.e., Dayton and Rogers) would then have specific, usable information that could be used to decide which practices to implement in order to achieve TMDL load reductions or to protect other resources.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason P. Quisberg". The signature is fluid and cursive, with the first name "Jason" and last name "Quisberg" clearly distinguishable.

Jason Quisberg, P.E.
City Engineer

Copy: Tina Goodroad, City Administrator
Diane Spector, Wenck

Memorandum

105 South Fifth
Avenue
Suite 513
Minneapolis, MN 55401

Tel: 612-252-9070
Fax: 612-252-9077
www.landform.net



DATE	April 25, 2018
FROM	Kendra Lindahl, AICP, Corcoran City Planner
TO	Kevin Mattson, Corcoran Public Works Director
CC	
RE	Elm Creek Watershed Management Commission (ECWMC) Recommended Livestock Management Policy

I have reviewed the undated draft of the policy, including the exhibits from Greenfield and Medina.

The policy document raises a number of concerns from an implementation and enforcement perspective:

1. The document states that “this policy applies to new facilities or the expansion of existing facilities based on the City’s Conditional Use Permit (CUP) provisions for livestock.” It is unclear how this would apply in Corcoran. Specifically:
 - a. the policy does not define what an expansion is for this policy or how it is measured. Is it Increased pasture area? Increased building area? Additional animals on site?
 - b. Does it only apply if a CUP is required? In Corcoran that would apply only to feedlots and riding stables as all other animals are permitted by right and limited by lot size.
2. They have an Animal Density definition that is based on grazing area. This is inconsistent with the way Corcoran’s ordinance defines the number of allowable animals on a property. Furthermore, it seems unusually limiting as not all animals graze, but they all have potential impacts on water systems.
3. The manure storage facility definition too restrictive as it defines a storage facility as “...any other area intended for the storage of animal manure, *no matter how small the accumulation or how long the manure may be stored.*” (italics added) This is overreaching and would be very difficult to enforce. Medina and Greenfield appear to address this by refining the definition of a manure storage area to clearly defined and measurable area.
4. The section prohibiting feedlots and manure storage areas (which is too narrowly defined as noted above) is overly restrictive for existing and future landowners. We have a number of structures, barns and pastures in the City that are within the Shoreland Overlay District (300 feet from a stream and 1,000 feet from a lake) as allowed by the MN Shoreland Rules. We already require the structure to meet the shoreland structure setback. The policy as drafted would essentially prohibit any animal use in the Shoreland Overlay District. That is an unfair burden on landowners and no evidence has been provided to suggest that it is needed to protect the water features.

I note that both of the examples provided were less restrictive than the policy itself. The City of Corcoran has adopted an Animal Ordinance (Chapter 81) and a Shoreland Overlay District ordinance (Chapter 1050.020 of the Zoning Ordinance) to protect properties and waterbodies in the City of Ordinance. The current ordinances provide structure setbacks, manure setbacks and manure maintenance standards, which comply with the intent of the policy. Any requirement that Corcoran’s ordinances be revised to comply with the draft ECWMC policy would be overreaching and difficult to enforce.