

elm creek

Watershed Management Commission

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

January 6, 2021

Representatives
 Elm Creek Watershed Management Commission
 Hennepin County, MN

The meeting packet for this meeting may be found on the Commission's website:
<http://www.elmcreekwatershed.org/minutes--meeting-packets.html>

Dear Representatives:

A regular meeting of the Elm Creek Watershed Management Commission will be held on **Wednesday, January 13, 2021, at 11:30 a.m.** **This will be a virtual meeting.**

Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join a meeting, click <https://us02web.zoom.us/j/990970201?pwd=Vi95cWpFRUFiMTUwZWV2MWRPd09>, which takes you directly to the meeting.

OR, go to www.zoom.us and click **Join A Meeting**. The meeting ID is **990-970-201**. The passcode for this meeting is **water**.

If your computer is not equipped with audio capability, dial into one of these numbers:

+1 929 205 6099 US (New York)	+1 312 626 6799 US (Chicago)	+1 669 900 6833 US (San Jose)
+1 346 248 7799 US (Houston)	+1 253 215 8782 US	+1 301 715 8592 US

Meetings remain open to the public via the instructions above.

Please email me at judie@jass.biz to confirm whether you or your Alternate will be attending the regular meeting.

Thank you.



Judie A. Anderson
 Administrator
 JAA:tim

Encls: Meeting Packet

cc:	Alternates	Jim Herbert	Joe Waln	James Kujawa	DNR
	TAC Members	Kris Guentzel	Brian Vlach	Diane Spector	BWSR
	City Clerks	Karen Galles	Met Council	Official Newspaper	MPCA

Z:\Elm Creek\Meetings\Meetings 2021\01 Notice_reg meeting.docx

elm creek

Watershed Management Commission

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

Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join this meeting, click <https://zoom.us/j/990970201> or go to www.zoom.us and click Join A Meeting. **The meeting ID is 990-970-201. The passcode for this meeting is water.**

If your computer is not equipped with audio capability, dial into one of these numbers:

+1 929 205 6099 US (New York)	+1 312 626 6799 US (Chicago)	+1 253 215 8782 US
+1 669 900 6833 US (San Jose)	+1 346 248 7799 US (Houston)	+1 301 715 8592 US

AGENDA

Regular Meeting

January 13, 2021

The meeting packet may be found on the Commission's website: <http://elmcreekwatershed.org/minutes--meeting-packets.html>

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.
4. Action Items.
 - a. Non-Waiver Liability Insurance.*
 - b. Project Reviews – *see Staff Report*.*
 - c. Accept 2020 Work Plan in Review.*
 - d. Consider Responses to Solicitation of Interest Proposals.*
 - e. Annual Appointments.

1) Official newspaper, Osseo-Maple Grove Press	3) Deputy Treasurer, Judie Anderson
2) Official depositories, US Bank, the 4M Fund	4) Auditor, Johnson & Company, Ltd.
 - f. Name Nominating Committee. Nominations will take place at February meeting, election officers at the March meeting.
5. Old Business.
6. New Business.
7. Communications. (*Also see Staff Report*.*)
 - a. Request for statements of economic interest.*
8. Education.

WMWA – next meeting is scheduled for February 9, 2021 at 8:30 a.m. This will be a **virtual** meeting. <https://us02web.zoom.us/j/922390839?pwd=RU95T2ttL3FzQmxHcU9jcFhDdng1QT09>
 Meeting ID: **922 390 839** | Passcode: **water** | or dial into one of the numbers above.
9. Grant Opportunities and Updates. (over)

*in meeting packet

**available at meeting or on website

10. Project Reviews.

Item No.	A	E	I R PFI	AR	Project No.	Project Name
			RP D			
					W Denotes wetland project	
ah.				AR	2014-015	Rogers Drive Extension, Rogers.
ai.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
aj.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
ak.				AR	2017-014	Laurel Creek, Rogers.
al.				AR	2017-029	Brayburn Trails, Dayton.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
b.					2018-020	North 101 Storage, Rogers.
am.					2018-046	Graco, Rogers.
an.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
ao.				AR	2019-001	Fernbrook View Apartments, Maple Grove.
ap.				AR	2019-002	Parkside Villas, Champlin.
aq.				AR	2019-021	Brenly Meadows, Rogers.
c.					2019-024	Boston Scientific, Maple Grove.
ar.				AR	2019-027	Havenwood at Maple Grove.
as.				AR	2019-032	OSI Expansion, Medina.
d.		E			2020-001	Outlot L, Markets at Rush Creek, Maple Grove.
e.					2020-002	Project 100, Maple Grove.
f.					2020-008	Ione Gardens, Dayton.
at.				AR	2020-009	Stetler Barn, Medina.
g.					2020-015	Dayton Interchange Business Center, Dayton.
h.	A	E			2020-016	Skye Meadow, Rogers.
i.					2020-017	Meadow View Townhomes, Medina.
j.			R		2020-022	Elm Road Street & Utility Project, Maple Grove.
au.					2020-023	Ziegler Dayton Site Upgrades, Dayton.
k.					2020-025	Paulsen Farms, Corcoran.
av.					2020-027	Kariniemi Addition, Corcoran.
l.					2020-029	Sundance Greens 5th Addition, Dayton.
m.					2020-030	Nelson International, Corcoran.
n.					2020-032	Enclave Rogers - Commerce Boulevard, Rogers.
o.					2020-033	Weston Woods, Medina.
p..					2020-035	Presteng Residence, Corcoran.
q.	A	E			2020-036	Balsam Pointe, Dayton.
r.	A	E			2020-037	Rice Lake Elementary School Pond Excavation, Maple Grove.
s.					2020-038	8130 Strehler Road, Corcoran.
t.	A	E			2020-039	Elm Creekside Trail, Plymouth.
u.	A	E			2020-040	The Cedars of Elm Creek 3 rd Addition, Champlin.
v.	A	E			2020-041	Plum Street East Drainage Improvements, Plymouth.
w.					2020-042	Rogers High School Athletic Field Replacement, Rogers.

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

11. Other Business.

Z:\Elm Creek\Meetings\Meetings 2021\01 Regular Meeting Agenda.docx

*in meeting packet
**available at meeting or on website

elm creek

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
email: jherbert@barr.com

Regular Meeting Minutes December 9, 2020

I. A virtual meeting of the Elm Creek Watershed Management Commission was called to order at 11:43 a.m., Wednesday, November 4, 2020, by Vice Chair Elizabeth Weir.

Present were: Ken Guenther, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Catherine Cesnik, Plymouth; Jim Herbert and Joe Waln, Barr Engineering; James Kujawa, Surface Water Solutions; Brian Vlach, Three Rivers Park District (TRPD); and Amy Juntunen and Judie Anderson, JASS. Not represented: Champlin and Rogers.

Also present: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Nico Cantarero, Wenck Associates, Dayton; Derek Asche and Mark Lahtinen, Maple Grove; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; Kris Guentzel, Hennepin County Environment and Energy (HCEE); and Stacy Harwell and Suzanne Jiwani, Minnesota Dept. of Natural Resources (DNR).

A. Motion by Guenther, second by Trainor to approve the **agenda**,* moving item 5.a. Floodplain Mapping Project, before Open Forum. *Motion carried unanimously.*

B. Motion by Guenther, second by Cesnik to approve the **Minutes*** of the November 4, 2020 regular meeting. *Motion carried unanimously.*

C. Motion by Guenther, second by Trainor to approve **December Treasurer's Report** and **Claims*** totaling \$34,485.67.

[Baines arrived 11:49 a.m. and assumed the Chair.]

D. **Floodplain Mapping Project.** Prior to discussion, Asche provided some historical background regarding this project. In September Barr Engineering and the Commission requested an additional \$25,000 from the DNR to cover additional work required to complete the hydrology for the project. The Commission also asked Barr to cease working on the project until the funding issue is resolved.

On December 7, 2020, the Commission received a response* from Suzanne Jiwani to Barr's September 24, 2020 request* for modifications to the budget and schedule for this project and Barr's December 7, 2020 letter* that provided additional detail to their initial request. In order to respond in time for this meeting, Jiwani's responses were limited to acceptances and rejections of the individually described tasks. Of the tasks totaling \$25,000, \$16,000 were accepted and \$9,000 were rejected. In addition, a \$1,200 credit was listed for the hydraulic modeling task. Jiwani will provide more detail relating to her responses to the Commission in the coming weeks. Her responses will be included in the January meeting packet. The deadline to complete the project is March 31, 2021.

Motion by Weir, second by Trainor to invoice the DNR for the \$14,800 items approved by the DNR in Jiwani's December response letter. *Motion carried unanimously.* Staff will contact Pat Lynch at

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

*indicates enclosure

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

elm creek Watershed Management Commission

Regular Meeting Minutes – December 9, 2020

Page 2

the DNR regarding issuance of an amendment to the contract to include the items discussed above and to submit an invoice accordingly.

Motion by Weir, second by Guenther to rescind the cease work order and direct Barr to proceed with the project. *Motion carried unanimously.*

II. Open Forum.**III. Action Items.**

A. Project Review 2020-008 Ione Gardens, Dayton.* This project is located at the northwest intersection of CSAH 144 (Diamond Lake North) and 12 (Dayton River Road). The site is three agricultural properties totaling 48.29 acres. One hundred twelve new single-family residential lots creating 16.84 acres of new impervious surface area are proposed for this development. The Commission's review is for compliance with Rules D, E, G, and I. At their October 2020 meeting the Commission approved Phase I grading on the north 14 acre area on the condition that: a) the applicant accepts any and all risks for any changes required to obtain final approval by the Commission and b) that the City of Dayton grants approvals for said grading, and to deny the remainder of the application unless the applicant extends the review deadline beyond the current October 21, 2020 deadline. The applicant extended the deadline to November 30, 2020. Updated site plans received November 16, 2020 meet the contingencies of the Commission approval with the exception of the post development infiltration basin percolation test requirements. In their Findings dated November 17, 2020. Staff recommended Commission approval of the updated plans contingent upon post-development percolation tests being provided on infiltration basins to demonstrate the constructed infiltration rate meets or exceeds the design infiltration rates. Motion by Weir, second by Guenther to approve Staff recommendations. *Motion carried unanimously.* The percolation tests will be performed within six months; the applicant subsequently extended the deadline to December 30, 2020.

B. Project Review 2020-030 Nelson International, Corcoran.* This project would construct a new semi-truck and trailer dealership and center on a 22.4-acre site. The project will disturb 9.5 acres and create 6.6 acres of impervious surface. The existing condition is a single-family residence with 0.4 acres of impervious. The application was reviewed for Rules D, E, G, and I. In their November 4, 2020 findings, Staff recommended approval contingent on submission and approval of an operation and maintenance agreement with the City of Corcoran, and that a subsequent addition to the proposed structure shall be submitted for administrative review. Motion by Weir, second by Guenther to approve Staff recommendations. *Motion carried unanimously.* It was further recommended that the City verify the presence and operation of the skimmers. [Following the meeting the plans were reviewed and it was determined that the pond outlet structures are designed to provide oil and floatables skimming.]

C. Project Review 2020-032 Enclave Rogers-Commerce Boulevard, Rogers.* This project would create an apartment complex on a 3.3-acre site. The existing site is undeveloped. The project will disturb the entire site and create 2.15 acres of impervious surface. The applicant is proposing an iron enhanced sand filter to meet Total Phosphorus removal requirements. The site is within two of the three outlots created as part of the adjacent former Lowe's development. The application was reviewed for Rules D and E. Staff granted administrative approval for grading contingent on applicant accepting risk for changes required for final approval and on approval from City for grading activities. In their Findings dated December 2, 2020, Staff recommends approval with those conditions, as well as submission of an operations and maintenance agreement for stormwater features, minor updates to the hydrology report, and minor updates to the Storm-

RULE D - STORMWATER MANAGEMENT
 RULE E - EROSION AND SEDIMENT CONTROL
 RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
 RULE H - BRIDGE AND CULVERT CROSSINGS
 RULE I - BUFFERS

*indicates enclosure

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

elm creek Watershed Management Commission

Regular Meeting Minutes – December 9, 2020

Page 3

water Pollution Prevention Plan (SWPPP). Motion by Weir, second by Trainor to approve Staff recommendations. *Motion carried unanimously.* The Commissioners expressed concern regarding the long-term maintenance of the iron-enhanced filters and underground storage chambers and requested that this concern be communicated to the City.

D. Project Review 2020-035 Presteng Residence, Corcoran.* This is a 3.84-acre lot that is proposed to be graded to accommodate a single family home. Located on Lot 1, Block 1, Schmidts Hidden Valley Second Addition, south of Oakdale Drive, approximately 1/4 mile east of Bechtold Road, the project triggers the Commission's rules because it disturbs more than 1.0 acres of land during construction. In their Findings dated November 12, 2020, Staff recommended approval pending receipt of a certificate of survey with lowest-most floor verification at or higher than 950.7 elevation. Motion by Weir, second by Trainor to approve Staff recommendations. *Motion carried unanimously.*

E. 2020 Work Plan in Review.* Included in the meeting packet is a draft of the activities undertaken by the Commission in 2020 in response to the work plan approved at its March 13, 2020 meeting. Staff requested the Commissioners to review and comment by January 5, 2021.

IV. Old Business.**V. New Business.****VI. Communications.**

A. The **December Staff Report*** provides updates on all of the development projects currently under review by Staff or awaiting final recordations. The projects listed on the following pages are discussed in the December report.

B. Hennepin County Project Updates. No report this month.

VII. Education and Public Outreach.

A. The next **West Metro Water Alliance (WMWA)** meeting is scheduled for Tuesday, January 12, 2021 at 8:30 a.m. This is a virtual meeting. The **Zoom number** is <https://us02web.zoom.us/j/922390839>. Or call in at any of these numbers using **meeting ID: 922 390 839**: (1) +1 301 715 8592 US (Germantown); (2) +1 312 626 6799 US (Chicago); (3) +1 929 205 6099 US (New York); or (4) +1 253 215 8782 US (Tacoma). The **passcode is water**.

B. Scharenbroich announced that Plymouth will hold **Discover Plymouth** on April 17, 2021. This will be an opportunity to visit with local businesses, community groups and non-profits; learn about city services; connect with City Council; shop the marketplace for homemade and handmade goods; and explore health and wellness opportunities.

C. The **Roots Display** is in the JASS office. Folks may visit the office (safely distancing and masked) to view the display.

VIII. Grant Opportunities and Project Updates.**IX. Other Business.**

A. Staff announced that the **biannual solicitation of letters of interest** for legal, technical, and administrative consultants will be published in the December 14, 2020 edition of the *State Register*. Deadline for responses is January 5, 2021. Responses will be considered at the Commission's January 13, 2021 meeting.

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

*indicates enclosure

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

elm creek Watershed Management Commission

Regular Meeting Minutes – December 9, 2020

Page 4

B. The Commission has received notice of the **purchase of Wenck Associates by Stantec**, effective January 1, 2021.

X. Adjournment. There being no further business, motion by Weir, second by Guenther to adjourn. *Motion carried unanimously.* The meeting was adjourned at 1:18 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

Z:\Elm Creek\Meetings\Meetings 2020\December 9, 2020 regular meeting minutes.docx

Item No.	A	E	I R PFI	AR	Project No.	Project Name
			RP D			
					W Denotes wetland project	
ah.				AR	2014-015	Rogers Drive Extension, Rogers.
ai.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
aj.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
ak.				AR	2017-014	Laurel Creek, Rogers.
al.				AR	2017-029	Brayburn Trails, Dayton.
am.				AR	2017-039	Rush Creek Apartments, Maple Grove.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
b.					2018-020	North 101 Storage, Rogers.
c.					2018-046	Graco, Rogers.
an.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
ao.				AR	2019-001	Fernbrook View Apartments, Maple Grove.
ap.				AR	2019-002	Parkside Villas, Champlin.
aq.				AR	2019-021	Brenly Meadows, Rogers.
d.					2019-024	Boston Scientific, Maple Grove.
ar.				AR	2019-027	Havenwood at Maple Grove.
as.				AR	2019-032	OSI Expansion, Medina.
e.					2020-001	Outlot L, Markets at Rush Creek, Maple Grove.
f.					2020-002	Project 100, Maple Grove.
g.	A	E			2020-008	Ione Gardens, Dayton.
at.				AR	2020-009	Stetler Barn, Medina.
h.					2020-015	Dayton Interchange Business Center, Dayton.
i.					2020-016	Skye Meadow, Rogers.
j.		E			2020-017	Meadow View Townhomes, Medina.
k.					2020-022	Elm Road Street & Utility Project, Maple Grove.
au.					2020-023	Ziegler Dayton Site Upgrades, Dayton.
l.					2020-025	Paulsen Farms, Corcoran.
av.					2020-027	Kariniemi Addition, Corcoran.
m.					2020-029	Sundance Greens 5th Addition, Dayton.

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

*indicates enclosure

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

elm creek Watershed Management Commission

Regular Meeting Minutes – December 9, 2020

Page 5

n.	A	E			2020-030	Nelson International, Corcoran.
o.	A	E			2020-032	Enclave Rogers - Commerce Boulevard, Rogers.
p.		E			2020-033	Weston Woods, Medina.
q.	A	E			2020-035	Presteng Residence, Corcoran.
r.					2020-036	Balsam Pointe, Dayton.
s.					2020-037	Rice Lake Elementary School Pond Excavation, Maple Grove.

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

RULE D - STORMWATER MANAGEMENT
 RULE E - EROSION AND SEDIMENT CONTROL
 RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
 RULE H - BRIDGE AND CULVERT CROSSINGS
 RULE I - BUFFERS

*indicates enclosure

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

Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	Dec 2020	Jan 2021	2020 Budget YTD
EXPENSES					
Administrative		90,000	7,373.37	6,205.27	98,861.75
Watershed-wide TMDL Admin		300			0.00
Grant Writing		1,000			0.00
Website		3,000	21.45	952.25	3,836.30
Legal		2,000	248.00		418.50
Audit		5,000			6,000.00
Insurance		3,900	(462.00)		3,182.00
Miscellaneous/Contingency		1,000			0.00
Technical Support - HCEE		15,000			0.00
Floodplain Mapping		39,360	963.50	1,842.50	81,478.50
Project Review Technical (Job 300)		185,000	5,773.00	6,384.50	70,803.99
Other Technical (Jobs 100 & 200)			2,667.50	2,889.00	63,501.50
Project Reviews - Admin		15,000	2,072.20	650.02	9,792.09
WCA - Technical		3,000			0.00
WCA - Legal		500			0.00
WCA - Admin		1,000			0.00
Stream Monitoring USGS		24,000			20,940.00
Stream Monitoring TRPD		7,200		7,200.00	7,200.00
DO Longitudinal Survey		1,000			0.00
TMDL Follow-up - TRPD		1,000			0.00
Rain Gauge		250	28.71	28.42	362.29
Rain Gauge Network		100			0.00
Lakes Monitoring - CAMP		760		760.00	760.00
Lakes Monitoring - TRPD					
Sentinel Lakes		8,100		8,100.00	8,100.00
Additional Lake		2,500			0.00
Aquatic Vegetation Surveys		1,100		1,100.00	1,100.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		3,000	70.44	35.00	1,909.87
WMWA General Activities		5,000			3,000.00
WMWA Educators/Watershed Prep		4,500			2,000.00
WMWA Special Projects		2,000			1,000.00
Rain Garden Workshops/Intensive BMPs		3,000			625.00
Education Grants		1,000			0.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Projects ineligible for ad valorem		0			0.00
Studies / Project ID / SWA		0	15,267.50		18,302.92
Plan Amendment		2,000			1,409.24
<i>Transfer to (from) Encumbered Funds (see below)</i>					0.00
<i>Transfer to (from) Capital Projects (see CIP Tr</i>		448,935		65,664.00	315,718.13
<i>Transfer to (from) Cash Sureties (see below)</i>				-	2,386.70
<i>Transfer to (from) Grants (see below)</i>		125,000	-	-	0.00
<i>To Fund Balance</i>					0.00
TOTAL - Month			34,023.67	101,810.96	722,688.78
TOTAL Paid in 2020, incl late 2019 Expenses		1,012,505.00	742,962.14	844,773.10	2020 Paid
				2020 Activity	

Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	Dec 2020	Jan 2021	2020 Budget YTD
INCOME					
<i>From Fund Balance</i>					
Floodplain Modeling		39,360			
Project Review Fee		80,000	4,732.00		101,373.50
Return Project Fee					0.00
Water Monitoring - TRPD Co-op Agmt		5,500			0.00
WCA Fees		0			0.00
Return WCA Fee					0.00
Reimbursement for WCA Expense					0.00
WCA Escrow Earned					0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		8,250	22.31		5,339.40
Transfer to (from) Capital Projects (see CIP Tr		448,935	138,677.37		293,773.55
Transfer to (from) Cash Sureties (see below)					
Transfer to (from) Grants (see below)		100,000	-		100,137.21
Misc Income					0.00
Total - Month			143,431.68	0.00	737,923.66
TOTAL Rec'd 2020, incl late 2019 Income		919,345.00	786,507.06	786,507.06	2020 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,263,863.98	1,307,408.90	1,205,597.94	
Cash on Hand			1,307,408.90	1,205,597.94	
CASH SURETIES HELD		Balance Fwd			Activity 2020
WCA Escrows Received		11,494.47			0.00
WCA Escrow Reduced					2,386.70
Total Cash Sureties Held		11,494.47	9,107.77	9,107.77	
RESTRICTED / ENCUMBERED FUNDS		Balance Fwd			
Restricted for CIPs		765,131			765,131.00
Enc. Studies / Project Identification / SWA		205,437			205,437.00
Total Restricted / Encumbered Funds		970,568	970,568.00	970,568.00	
			Dec 2020	Jan 2021	2020 Budget YTD
GRANTS					
Fish Lake Alum Trmt Phase 2					
Revenue					41,890.21
Expense					-
Balance			-	-	41,890.21
BWSR Watershed-based Funding					
Revenue					-
Expense					-
Balance			-		-
DNR Floodplain Data					
Revenue					58,247.00
Expense					-
Balance			-		58,247.00
TOTAL GRANTS					
Revenue			-	-	100,137.21
Expense			-	-	-
Balance			-	-	100,137.21

Elm Creek Watershed Management Commission Treasurer's Report

Claims Presented		General Ledger Account No	December	Jan 2021	TOTAL
Campbell Knutson - Legal		521000			0.00
Connexus - Rain Gauge		551100		28.42	28.42
Barr Engineering					11,116.00
Floodplain Mapping		580440		1,842.50	
Project Review Technical (Job 300)		578050		6,384.50	
Other Technical (Jobs 100 & 200)		578050		2,889.00	
Ravinia Wetland Mitigation		240201			
City of Medina - Hickory Dr Stormwater Imprv				65,664.00	65,664.00
Metropolitan Council - CAMP		561000		760.00	760.00
State Register-Request for Interest Proposals		511000		82.50	82.50
Three Rivers Park District					16,400.00
TRPD - Lakes Monitoring		561000		8,100.00	
TRPD - Aquatic Vegetation Survey		561010		1,100.00	
TRPD - Stream Monitoring		551000		7,200.00	
JASS					7,760.04
Administration		511000		6,098.41	
TAC Support		511000			
Website		581000		952.25	
Project Reviews		578100		650.02	
Education		590000		35.00	
CIPs General		563001			
Floodplain Mapping Admin		511000		24.36	
TOTAL CLAIMS					101,810.96

Elm Creek Watershed Management Commission
2020 Treasurer's Report - Capital Improvement Project Tracking

item 02b

CIPs		Amount	%age	TOTAL 2016	TOTAL 2017	TOTAL 2018	TOTAL 2019	JAN 2020	FEB 2020	MAR 2020	APR 2020	MAY 2020	JUN 2020	JUL 2020	AUG 2020	SEP 2020	OCT 2020	NOV 2020	DEC 2020	2020 GJEs	TOTAL 2020	TOTAL ALL YEARS
	2016-01 Fox Creek Phase 2 Bank Stabilization	80,312.00	16.296																			
	Revenue			-	80,353.26	(98.25)	(694.43)														-	79,560.58
	Expense			106.32	-	-	-														-	106.32
	Balance			(106.32)	80,353.26	(98.25)	(694.43)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79,454.26
	2016-05 Fish Lake Alum Trmt Phase 1	75,000.00	15.219																			
	Revenue			-	75,042.75	(91.75)	(648.52)														-	74,302.48
	Expense			106.32	-	-	-														-	106.32
	Balance			(106.32)	75,042.75	(91.75)	(648.52)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74,196.16
	2017-01 Fox Creek Phase 3 Streambank Stabilization	112,500.00	25.714																			
	Revenue			-	-	112,347.11	10.83							26.68					19.99		46.67	112,404.61
	Expense			-	135.85	-	-														-	135.85
	Balance			-	(135.85)	112,347.11	10.83	-	-	-	-	-	-	26.68	-	-	-	-	19.99	-	46.67	112,268.76
	2017-03 Mill Pond Fishery & Habitat Restoration	250,000.00	57.143																			
	Revenue			-	-	249,663.63	24.08							59.28							59.28	249,746.99
	Expense			-	135.86	-	-														-	135.86
	Payment to City																	249,611.13			249,611.13	249,611.13
	Balance			-	(135.86)	249,663.63	24.08	-	-	-	-	-	-	59.28	-	-	-	(249,611.13)	-	-	(249,551.85)	-
	2017-04 Rain Garden at Independence	75,000.00	17.143																			
	Revenue			-	-	74,899.52	7.22							17.78					13.33		31.11	74,937.85
	Expense			-	135.85	-	-														-	135.85
	Balance			-	(135.85)	74,899.52	7.22	-	-	-	-	-	-	17.78	-	-	-	-	13.33	-	31.11	74,802.00
	2018-01 Rush Creek Ph 3 Main Stem Stabilization	75,000.00	30.000																			
	Revenue			-	-	-	74,593.71							247.30					90.50		337.80	74,931.51
	Expense			-	-	115.18	-														-	115.18
	Balance			-	-	(115.18)	74,593.71	-	-	-	-	-	-	247.30	-	-	-	-	90.50	-	337.80	74,816.33
	2018-03 Elm Creek Phase III Streambank Stabilization	100,000.00	40.000																			
	Revenue			-	-	-	99,461.35							329.73					120.68		450.41	99,911.76
	Expense			-	-	115.18	-														-	115.18
	Balance			-	-	(115.18)	99,461.35	-	-	-	-	-	-	329.73	-	-	-	-	120.68	-	450.41	99,796.58
	2018-04 Downs Road Trail Rain Garden	75,000.00	30.000																			
	Revenue			-	-	-	74,593.71							247.30					90.50		337.80	74,931.51
	Expense			-	-	115.18	-														-	115.18
	Balance			-	-	(115.18)	74,593.71	-	-	-	-	-	-	247.30	-	-	-	-	90.50	-	337.80	74,816.33
	2019-01 Rush Creek Main Stem Ph 3	26,513.00	8.983																			
	Revenue			-	-	-	-							13,841.42				7.50	12,427.29		26,276.21	26,276.21
	Expense			-	-	-	102.77														-	102.77
	Balance			-	-	-	(102.77)	-	-	-	-	-	-	13,841.42	-	-	-	7.50	12,427.29	-	26,276.21	26,173.44
	2019-04 Hickory Drive Stormwater Improvement	81,471.00	27.604																			
	Revenue			-	-	-	-							42,533.51				23.06	38,188.03		80,744.60	80,744.60
	Expense			-	-	-	102.78														-	102.78
	Payment to City																			65,664.00	65,664.00	65,664.00
	Balance			-	-	-	(102.78)	-	-	-	-	-	-	42,533.51	-	-	-	23.06	38,188.03	(65,664.00)	15,080.60	14,977.82

Elm Creek Watershed Management Commission
2020 Treasurer's Report - Capital Improvement Project Tracking

item 02b

CIPs		Amount	%age	TOTAL 2016	TOTAL 2017	TOTAL 2018	TOTAL 2019	JAN 2020	FEB 2020	MAR 2020	APR 2020	MAY 2020	JUN 2020	JUL 2020	AUG 2020	SEP 2020	OCT 2020	NOV 2020	DEC 2020	2020 GJEs	TOTAL 2020	TOTAL ALL YEARS
2019-05 Downtown Regional Stormwater		28,079.00	9.514																			
	Revenue			-	-	-	-							14,659.60				7.95	13,161.90		27,829.45	27,829.45
	Expense			-	-	-	102.77														-	102.77
	Balance			-	-	-	(102.77)	-	-	-	-	-	-	14,659.60	-	-	-	7.95	13,161.90	-	27,829.45	27,726.68
2019-06 Elm Creek Restore Ph IV		159,075.00	53.899																			
	Revenue			-	-	-	-							83,050.04				45.03	74,565.15		157,660.22	157,660.22
	Expense			-	-	-	102.78														-	102.78
	Balance			-	-	-	(102.78)	-	-	-	-	-	-	83,050.04	-	-	-	45.03	74,565.15	-	157,660.22	157,557.44
2020-01 Livestock Exclusions, Buffers, &																						
	Revenue			-	-	-	-														-	-
	Expense			-	-	-	-								147.67						147.67	147.67
	Balance			-	-	-	-	-	-	-	-	-	-	-	(147.67)	-	-	-	-	-	(147.67)	(147.67)
2020-02 Agricultural BMPs Cost Share																						
	Revenue			-	-	-	-														-	-
	Expense			-	-	-	-								147.67						147.67	147.67
	Balance			-	-	-	-	-	-	-	-	-	-	-	(147.67)	-	-	-	-	-	(147.67)	(147.67)
2020-03 Enhanced Street Sweeper																						
	Revenue			-	-	-	-														-	-
	Expense			-	-	-	-								147.66						147.66	147.66
	Balance			-	-	-	-	-	-	-	-	-	-	-	(147.66)	-	-	-	-	-	(147.66)	(147.66)
TOTAL CIP																						
	Revenue			249,795.17	494,329.63	436,392.95	458,031.53	-	-	-	-	-	-	155,012.64	-	-	-	83.54	138,677.37	-	293,773.55	2,063,892.96
	Expense			812.59	407.56	570.54	411.10	-	-	-	-	-	-	-	443.00	-	-	-	-	-	443.00	8,872.57
	Payments			245,276.36	1,836.48	322,859.09	352,173.28	-	-	-	-	-	-	-	-	-	-	249,611.13	-	65,664.00	315,275.13	1,237,420.34
	Balance			3,706.22	492,085.59	111,741.60	105,224.02	-	-	-	-	-	-	155,012.64	(443.00)	-	-	(249,527.59)	138,677.37	(65,664.00)	(21,944.58)	816,155.20
CLOSED PROJECT FUND																						
2014-02 Champlin Mill Pond Dam						82.31																82.31
2015-01 Plymouth Elm Creek Restoration						1,139.41																1,139.41
2014-01 Medina Tower Drive							120.35															120.35
	Balance Closed Project Fund																					1,342.07
TOTAL CIP & Closed Project Fund																						817,497.27
COMPLETED PROJECTS \$0 BALANCE																						
2016-02 Miss River Shore Repair/Stabilization						COMPLETE																
2016-03 EC Dam at Mill Pond						COMPLETE																
2016-04 Rush Creek Main Stem Restoration						COMPLETE																
2018-02 Elm Creek Reach D Stream Restoration						COMPLETE																



Account Number:
481113-238425

item 02b

ELM CREEK WATERSHED MGMT ORG

Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Billing Summary

Billing Date: Dec 17, 2020

Previous Balance	\$28.71
Payments - Thank You!	\$28.71
Balance Forward	\$0.00
New Charges	\$28.42

Total Amount Due **\$28.42**

Payment must be received on or before January 13, 2021

Total Amount Due

\$28.42

Due Date

January 13, 2021

Message Center

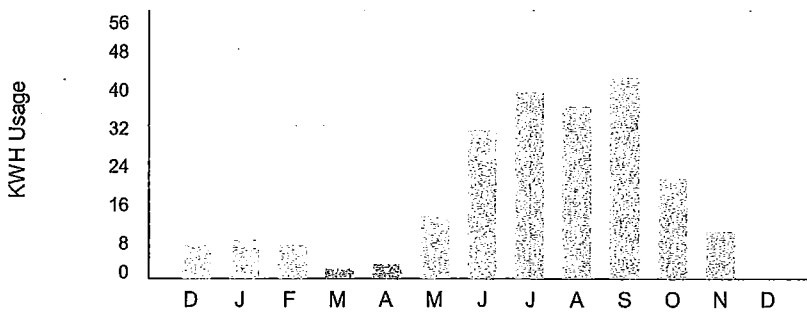
Upcoming Director Elections

Connexus Energy is now accepting applications for Board of Director candidates in director districts 1, 3, and 4. The deadline for applications is 5:00 p.m. on January 29, 2021. If you are interested in receiving an application packet, please contact kim.vredenburg@connexusenergy.com.

Happy Holidays

From all of us at Connexus Energy, we wish you a safe, happy, and bright holiday season. We look forward to serving you in 2021.

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-007258/008495 AGYZV6 S1-ET-M1-C00002 1



Account Number:

481113-238425

Total Amount Due

\$28.42

Payment Due By

January 13, 2021



007258 1 AB 0.416 003243/007258/006495 026 01 AGYZV6
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy

PO Box 1808
Minneapolis, MN 55480-1808

00002842 0004811130238425 000000 00000 00000000000 0000002



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 Commission
 JASS-Watershed Administrators
 3235 Fernbrook Lane
 Plymouth, MN 55447

December 25, 2020
 Invoice No: 23271759.00 - 14

Total this Invoice	\$1,842.50
---------------------------	-------------------

Regarding: Elm Creek Floodplain Mapping

This invoice is for professional services, which include the following:

- Incorporation of DNR Nov 2020 survey into draft hydraulic model
- Internal QAQC of draft hydraulic model

Total Contract Budget	Total Prior Billing	Billing this Invoice	Total Billing to Date	Budget Remaining
\$90,945.00	\$81,609.50	\$1,842.50	\$83,452.00	\$7,493.00

Professional Services from December 10, 2020 to December 25, 2020

Job: 500 Hydraulic Modeling - Detailed Studies

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	11.20	110.00	1,232.00	
	11.20		1,232.00	
Subtotal Labor				1,232.00
			Job Subtotal	\$1,232.00

Job: 600 Hydraulic Analysis - Non Detailed

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.60	155.00	93.00	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	4.00	110.00	440.00	
	4.60		533.00	
Subtotal Labor				533.00
			Job Subtotal	\$533.00

Job: 900 Out-of-Scope

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.

Project	23271759.00	Elm Creek Floodplain Mapping	Invoice	item 02b
---------	-------------	------------------------------	---------	----------

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.50	155.00	77.50	
	.50		77.50	
Subtotal Labor				77.50
		Job Subtotal		\$77.50
		Total this Invoice		\$1,842.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	1,842.50	81,609.50	83,452.00	81,609.50	1,842.50

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact Heather Hlavaty, your Barr project manager at 952.842.3613 or email at hhlavaty@barr.com.



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 Commission
 JASS-Watershed Administrators
 3235 Fernbrook Lane
 Plymouth, MN 55447

December 25, 2020
 Invoice No: 23270F55.20 - 11

Total this Invoice	\$9,273.50
---------------------------	-------------------

Regarding: Review of development permits for compliance with the Elm Creek Watershed Management Plan

This invoice is for professional services, which include the following:

Job 100 - Technical Services

- Meetings
 - preparing for WMC meeting
 - attending WMC meeting
 - updating staff report
- Pre-Project Review
 - communicating with potential permit applicants regarding the following projects:
 - Strehler Road
 - Tavera
 - MPARS permit for City of Dayton
- Wetland Issues
 - preparing for and attending WCA TEP meeting for Tavera site in Corcoran
- General administrative tasks
 - coordinating with administrator
 - responding to coordination emails and phone calls

Job 200 – Other Assistance

- none

Job 300 – Project Reviews

- Reviewing the following projects for compliance with stormwater and erosion control rules:
 - 2020-016 Lennar Territorial Rd Development (Skye Meadows), Rogers
 - 2020-023 Ziegler Dayton Site Upgrades, Dayton
 - 2020-030 Nelson International, Corcoran
 - 2020-032 Enclave Rogers – Commerce Blvd, Rogers
 - 2020-033 Weston Woods, Medina
 - 2020-035 Presteng Residence, Corcoran
 - 2020-036 Balsam Pointe, Corcoran
 - 2020-037 Rice Creek Elementary School, Maple Grove
 - 2020-038 8310 Strehler Rd H Linberg Residence, Corcoran
 - 2020-039 Elm Creekside Hills Trail, Plymouth
 - 2020-040 The Cedars of Elm Creek 3rd Addition, Champlain

Professional Services from November 28, 2020 to December 25, 2020

Job: 100 Technical Services

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.

Task: 010 Meetings

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	3.00	200.00	600.00	
Engineer / Scientist / Specialist IV				
Waln, Joseph	3.90	155.00	604.50	
	6.90		1,204.50	
Subtotal Labor				1,204.50

Subconsultant Charges

Subconsultants			632.50	
Subtotal Subconsultant				632.50
		Task Subtotal		\$1,837.00

Task: 020 Pre-Project Review

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	.50	200.00	100.00	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.30	155.00	46.50	
	.80		146.50	
Subtotal Labor				146.50

Subconsultant Charges

Subconsultants			165.00	
Subtotal Subconsultant				165.00
		Task Subtotal		\$311.50

Task: 030 Wetland Issues

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist III				
Wold, Karen	1.90	135.00	256.50	
	1.90		256.50	
Subtotal Labor				256.50
		Task Subtotal		\$256.50

Task: 040 General

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.00	155.00	155.00	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	.80	110.00	88.00	

Support Personnel II
Nypan, Nyssa

.80	95.00	76.00
2.60		319.00

Subtotal Labor	319.00
-----------------------	---------------

Subconsultant Charges

Subconsultants	165.00
----------------	--------

Subtotal Subconsultant	165.00
-------------------------------	---------------

Task Subtotal	\$484.00
----------------------	-----------------

Job Subtotal	\$2,889.00
---------------------	-------------------

Job: 300 Project Reviews

Task: 2016 2020-016 Lennar Territorial Rd Development

Subconsultant Charges

Subconsultants	1,045.00
----------------	----------

Subtotal Subconsultant	1,045.00
-------------------------------	-----------------

Task Subtotal	\$1,045.00
----------------------	-------------------

Task: 2023 2020-023 Ziegler Dayton Site Upgrades

Subconsultant Charges

Subconsultants	44.00
----------------	-------

Subtotal Subconsultant	44.00
-------------------------------	--------------

Task Subtotal	\$44.00
----------------------	----------------

Task: 2030 2020-030 Nelson International

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist IV			
Waln, Joseph	2.30	155.00	356.50
	2.30		356.50

Subtotal Labor	356.50
-----------------------	---------------

Task Subtotal	\$356.50
----------------------	-----------------

Task: 2032 2020-032 Enclave Rogers – Commerce Blvd

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist IV			
Waln, Joseph	3.00	155.00	465.00
	3.00		465.00

Subtotal Labor	465.00
-----------------------	---------------

Task Subtotal	\$465.00
----------------------	-----------------

Task: 2033 2020-033 Weston Woods

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.00	155.00	155.00	
	1.00		155.00	
Subtotal Labor				155.00
			Task Subtotal	\$155.00

Task: 2035 2020-035 Presteng Residence

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.50	155.00	77.50	
	.50		77.50	
Subtotal Labor				77.50
			Task Subtotal	\$77.50

Task: 2036 2020-036 Balsam Pointe

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	2.30	155.00	356.50	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	7.10	110.00	781.00	
	9.40		1,137.50	
Subtotal Labor				1,137.50

Subconsultant Charges

Subconsultants			55.00	
Subtotal Subconsultant				55.00
			Task Subtotal	\$1,192.50

Task: 2037 2020-037 Rice Creek Elementary School

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	2.50	155.00	387.50	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	3.20	110.00	352.00	
	5.70		739.50	
Subtotal Labor				739.50
			Task Subtotal	\$739.50

Task: 2038 2020-038 8310 Strehler Rd H Lindberg Res

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	2.00	155.00	310.00	
	2.00		310.00	
Subtotal Labor				310.00

Subconsultant Charges

Subconsultants			440.00	
Subtotal Subconsultant				440.00

Task Subtotal \$750.00

Task: 2039 2020-039 Elm Creekside Hills Trail

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	3.00	155.00	465.00	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	.30	110.00	33.00	
Engineer / Scientist / Specialist I				
Brown, Aaron	7.40	85.00	629.00	
	10.70		1,127.00	
Subtotal Labor				1,127.00

Task Subtotal \$1,127.00

Task: 2040 2020-040 The Cedars of Elm Creek 3rd Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.30	155.00	201.50	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	2.10	110.00	231.00	
	3.40		432.50	
Subtotal Labor				432.50

Task Subtotal \$432.50

Job Subtotal \$6,384.50

Total this Invoice \$9,273.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	9,273.50	124,912.00	134,185.50	124,912.00	9,273.50

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Joe Waln, your Barr project manager at 952.832.2984 or email at jwaln@barr.com.



INVOICE

Invoice No:
Invoice Date:
Page:

0001118027
12/21/20
1 of 1

Please Remit To:

Metropolitan Council
Environmental Services
PO Box 856513
Minneapolis MN 55485-6513
United States

Customer Number:

7174

Payment Terms:

Due 30 dys

Due Date:

1/20/21

Bill To:

ELM CREEK WATERSHED MGMT ORGANIZATION
JUDIE ANDERSON
c/o Jass Inc
3235 Fernbrook Ln
Plymouth MN 55447
United States

AMOUNT DUE:

\$ 760.00 USD

 Amount Remitted

For account questions: metcar@metc.state.mn.us

Line	Identifier	Description	Quantity	UOM	Unit Amt	Original
						Net Amount
1	CAMP	Citizen-Assist-Monitor-Prj	1.00	EA	760.00	760.00

Quantity of lake sites: 1 at \$760 each.

Subtotal:

 760.00

Contract: 20R029

Quantity of lake sites: 1 at \$760 each.
2020 Citizen-Assisted Monitoring Program

For questions about this bill, please contact Brian Johnson at 651-602-8743 or Brian.Johnson@metc.state.mn.us.

ANY UNPAID BALANCE OVER 30 DAYS FROM DATE OF INVOICE WILL BE SUBJECT TO A FINANCE CHARGE AT THE RATE OF 1.5% PER MONTH (18% PER YEAR)

Amount Due:

\$ 760.00

G0203 001
DEPT OF ADMIN/PMD
MINNESOTA'S BOOKSTORE
50 SHERBURNE AVENUE, SUITE 309
ST. PAUL MN 55155

m DEPARTMENT OF
ADMINISTRATION
INVOICE

Customer No: 7002128
Payment Terms: Due in 30
Due Date: January 16, 2021
Invoice: 00000637475
Invoice Date: December 17, 2020
From Date: December 14, 2020 To Date: December 14, 2020
Purchase Order:
Page: 1 of 1

Bill To:

ELM CREEK WATERSHED MGMT
ACCOUNTS PAYABLE
3235 FERNBROOK LN
PLYMOUTH MN 55447

AMOUNT DUE: 82.50

For billing questions, please call 651-201-3204

Original

Line	Identifier	Description	Qty	UOM	Unit Amt	Net Amount
1		State Register Vol. 45 #24	5.00	EA	13.50	67.50
2		Affidavit	1.00	EA	15.00	15.00
		RFP for Professional Services for Administrative, Legal, and Technical Consulting				
Subtotal:						82.50
Amount Due:						82.50

Bill To:
ELM CREEK WATERSHED MGMT
ACCOUNTS PAYABLE
3235 FERNBROOK LN
PLYMOUTH MN 55447

Customer No: 7002128
Payment Terms: Due in 30
Due Date: January 16, 2021

Address Change? If yes, Check box.
Write correct address on back. →

☐

Please Remit To:
DEPT OF ADMIN/PLANT MANAGEMENT
MINNESOTA'S BOOKSTORE
50 SHERBURNE AVENUE
SUITE 309
ST. PAUL MN 55155

Amount Due: 82.50

Amount Remitted

G0203 7002128ZZZZZZZZ 0 00000637475ZZZZZZZZZZ 0 0000008250

Affidavit of Publication

in the *Minnesota State Register*

State of Minnesota
County of Ramsey
City of St. Paul

IT IS HEREBY SWORN, that I, the undersigned Business Representative, as Authorized Representative of the *State Register*, published by the State of Minnesota Department of Administration, hereby certify that the attached *State Register* magazine is a true and correct copy wherein was printed:

Request for Interest Proposals - Professional Services for Administrative, Legal, and Technical Consulting

The above-named notice appeared on page 656, Volume 45, Number 24, on Monday 14 December 2020.

That notice was submitted for publication in the *State Register* by:

Judie Anderson

as authorized representative of:

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

and was published in the form authorized by the submitting agency's representative and according to the established format of the editor of the *State Register*.

Dated: Thursday 17 December 2020



Notary:

A handwritten signature in black ink, appearing to be 'S. Plemmons', written over a horizontal line.

Minnesota State Register
660 Olive Street
St. Paul, MN 55155



Remit To:
Three Rivers Park District
Revenue Department

3000 Xenium Lane North
Plymouth, MN 55441
763-559-6715

INVOICE

INVOICE #: 2000000192
INVOICE DATE: 12/15/2020
CUSTOMER # 00004
AMOUNT DUE: 9,200.00

AMOUNT PAID: \$

ELM CREEK WATERSHED MGMT COMM

ATTN: JUDIE ANDERSON
3235 FERNBROOK LANE
PLYMOUTH, MN 55447

-PAYMENT IS DUE UPON RECEIPT-

Please detach this payment stub at the dotted line and remit it with your payment. Make checks payable to Three Rivers Park District and write your invoice number on your check.

DATE	DESCRIPTION	AMOUNT
12/15/2020	LAKE MONITORING	9,200.00

Notes:

THIS INVOICE IS TO REQUEST REIMBURSEMENT FOR 2020 LAKE MONITORING SERVICES AND VEGETATION SURVEY.

THE LAKE MONITORING DATA WILL BE SENT TO YOU SEPARATELY.

IF YOU HAVE ANY QUESTIONS REGARDING THIS INVOICE, PLEASE CONTACT BRIAN VLACH, THREE RIVERS PARK DISTRICT SENIOR WATER RESOURCES MANAGER, AT 763.694.7846, OR AT BRIAN.VLACH@THREERIVERSPARKS.ORG.

THANK YOU

INVOICE #: 2000000192
CUSTOMER # 00004

Total Invoice: 9,200.00
Credits Applied: 0.00
Payments Applied: 0.00
Invoice Balance: 9,200.00

Thank you for your prompt attention to this invoice. We appreciate your patronage.

-Three Rivers Park District-



Remit To:
Three Rivers Park District
Revenue Department

3000 Xenium Lane North
Plymouth, MN 55441
763-559-6715

INVOICE

INVOICE #: 2000000193
INVOICE DATE: 12/15/2020
CUSTOMER # 00004
AMOUNT DUE: 7,200.00

AMOUNT PAID: \$

ELM CREEK WATERSHED MGMT COMM

ATTN: JUDIE ANDERSON
3235 FERNBROOK LANE
PLYMOUTH, MN 55447

-PAYMENT IS DUE UPON RECEIPT-

Please detach this payment stub at the dotted line and remit it with your payment. Make checks payable to Three Rivers Park District and write your invoice number on your check.

DATE	DESCRIPTION	AMOUNT
12/15/2020	STREAM MONITORING	7,200.00

Notes:

THIS INVOICE IS TO REQUEST REIMBURSEMENT FOR 2020 STREAM MONITORING SERVICES.

THE STREAM MONITORING DATA WILL BE SENT TO YOU SEPARATELY.

IF YOU HAVE ANY QUESTIONS REGARDING THIS INVOICE, PLEASE CONTACT BRIAN VLACH, THREE RIVERS PARK DISTRICT SENIOR WATER RESOURCES MANAGER, AT 763.694.7846 OR AT BRIAN.VLACH@THREERIVERSPARKS.ORG.

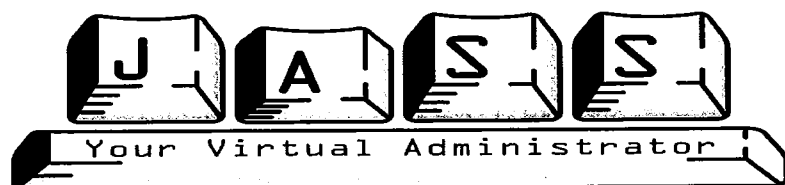
THANK YOU

INVOICE #: 2000000193
CUSTOMER # 00004

Total Invoice: 7,200.00
Credits Applied: 0.00
Payments Applied: 0.00
Invoice Balance: 7,200.00

Thank you for your prompt attention to this invoice. We appreciate your patronage.

-Three Rivers Park District-



3235 Fernbrook Lane
Plymouth MN 55447

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

4-Jan-21

Total by
Project Area

Administrative	1.30	60.00	78.00	
Administrative	46.93	65.00	3,050.45	
Admin - virtual	2.17	70.00	151.90	
Office Support	12.00	200.00	2,400.00	
Storage Unit	1.00	144.76	144.76	
Data Processing/File Mgmt		60.00	0.00	
File Management		60.00	0.00	
Archiving		60.00	0.00	
Admin - Reimbursable Expense	273.30	1.00	273.30	6,098.410
Website		60.00	0.00	
Website	14.65	65.00	952.25	
Web Domain, hosting		1.00	0.00	952.250
Project Reviews - Secre		60.00	0.00	
Project Reviews - Admin	6.53	65.00	424.45	
Project Reviews - Reimbursable Expense	225.57	1.00	225.57	650.020
Education - Secretarial		60.00	0.00	
Education - Admin		65.00	0.00	
Education - Admin virtual - Blue Thumb Partner Event	0.50	70.00	35.00	
Education - Reimbursable Expense		1.00	0.00	35.000
Floodplain mapping - admin		60.00	0.00	
Floodplain administrative	0.20	65.00	13.00	
Floodplain mapping reimbursable expense	11.36	1.00	11.36	24.360
Invoice Total				7,760.040



CITY OF MEDINA
 2052 COUNTY ROAD 24
 MEDINA MN 55340

Invoice

No. 00006986
 Date 8/11/2020

To: ELM CREEK WATERSHED
 MANAGEMENT COMMISSION
 3235 FERNBROOK LANE N.
 PLYMOUTH MN 55447

Shipped	Ship Via	Terms	Contract	Contact	Customer PO#
		UPON RECEIPT			
Description					Amount
HICKORY DRIVE STORMWATER IMPROVEMENT GRANT - TOTAL PROJ COST \$262,656.44 25% GRANT APPROVAL CAPPED AT \$76,823.00 PER AGREEMENT AMENDED ON MAY 8, 2019					\$65,664.00
Special Instructions				SubTotal	\$65,664.00
				Tax	\$0.00
				Shipping	\$0.00

PAID \$0.00
Total \$65,664.00

Do not combine utility payments with this invoice.

Please reference the invoice number on your payment.

Questions? Contact Accounts Receivable 763-473-8849



ThankYou !

EXHIBIT A

Elm Creek Watershed Management Commission
Capital Improvement Project Submittal

*(This submittal will be rated on its completeness and adherence to the goals of the Commission.
A second page may be used to provide complete responses.)*

City	City of Medina		
Contact Name	Steve Scherer, Public Works Director; Dusty Finke, City Planner		
Telephone	763-473-8842; 763-473-8846		
Email	<u>Steve.scherer@medinamn.gov</u> ; <u>dusty.finke@medinamn.gov</u>		
Address	2052 County Road 24; Medina, MN 55340		
Project Name	Hickory Drive Stormwater Improvement		
	1. Is project in Member's CIP? (X) yes () no		Proposed CIP Year = 2019
	2. Has a feasibility study or engineering report (circle one) been done for this project? () yes (X) no		
			Amount
	Total Estimated Project Cost		307,920 \$225,000
	Estimated Commission Share (up to 25%, not to exceed \$250,000)		76,823 \$56,250
	Other Funding Sources (name them) – City will seek additional grant or clean water funding; City stormwater utility and assessments for remainder		\$168,750
			\$
	3. What is the scope of the project? Install stormwater pond for 8.3 acre drainage area (50% impervious). Stabilize approximately 300 linear feet of gully erosion. Install approximately 700 feet of curb and 600 feet of storm sewer to capture and direct stormwater to improvements.		
	4. What is the purpose of the project? What water resource(s) will be impacted by the project? The purpose of the project is to reduce nutrient loading to Elm Creek, which is adjacent to the project area. Drainage to Elm Creek is currently not treated.		
	5. What is the anticipated improvement that would result from the project? (Include size of area treated and projected nutrient reduction.) Jim Kujawa has estimated the phosphorus removal would be approximately 26.6 lbs/year. This removal is estimated to consist of an estimated 16 lbs/year for the pond plus 10.6 lbs/year phosphorus reduction for the gully/erosion improvements.		
	6. How does the project contribute to achieving the goals and programs of the Commission? The proposed project will reduce nutrient loading to Elm Creek, reduce runoff rate to Elm Creek, address implementation of the Elm Creek Watershed TMDL, and reduce erosion of the gully draining to Elm Creek.		
0/10	7. Does the project result from a regulatory mandate? () yes (X) no How? The stormwater improvement is not triggered by a permit requirement, but is consistent with TMDL implementation.		
0/10/20	8. Does the project address one or more TMDL requirements? (X) yes () no Which? Elm Creek Watershed TMDL		
0/10/20	9. Does the project have an educational component? (X) yes () no Describe. Information related to the benefits of the project will be included in newsletters and public meetings related to the project. The anticipated location of the pond does not lend itself well to educational signage, but the City will search for options.		
0/10	10. Do all the LGUs responsible for sharing in the cost of the project agree to go forward with this project? (X) yes () no Identify the LGUs. City of Medina		
10/20	11. Is the project in all the LGUs' CIPs? (X) yes () no		
1-34	(For TAC use)		
	12. Does project improve water quality? (0-10)	15. Promote groundwater recharge? (0-3)	
	13. Prevent or correct erosion? (0-10)	16. Protect and enhance fish and wildlife habitat? (0-3)	
	14. Prevent flooding? (0-5)	17. Improve or create water recreation facilities? (0-3)	
TOTAL (poss 114)		Adopted April 11, 2012	



LIABILITY COVERAGE – WAIVER FORM

Members who obtain liability coverage through the League of Minnesota Cities Insurance Trust (LMCIT) must complete and return this form to LMCIT before the member's effective date of coverage. Return completed form to your underwriter or email to pstech@lmc.org.

The decision to waive or not waive the statutory tort limits must be made annually by the member's governing body, in consultation with its attorney if necessary.

Members who obtain liability coverage from LMCIT must decide whether to waive the statutory tort liability limits to the extent of the coverage purchased. The decision has the following effects:

- *If the member does not waive the statutory tort limits*, an individual claimant could recover no more than \$500,000 on any claim to which the statutory tort limits apply. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would be limited to \$1,500,000. These statutory tort limits would apply regardless of whether the member purchases the optional LMCIT excess liability coverage.
- *If the member waives the statutory tort limits and does not purchase excess liability coverage*, a single claimant could recover up to \$2,000,000 for a single occurrence (under the waive option, the tort cap liability limits are only waived to the extent of the member's liability coverage limits, and the LMCIT per occurrence limit is \$2,000,000). The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to \$2,000,000, regardless of the number of claimants.
- *If the member waives the statutory tort limits and purchases excess liability coverage*, a single claimant could potentially recover an amount up to the limit of the coverage purchased. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to the amount of coverage purchased, regardless of the number of claimants.

Claims to which the statutory municipal tort limits do not apply are not affected by this decision.

LMCIT Member Name:

Elm Creek Watershed Management Commission

Check one:

☒ The member **DOES NOT WAIVE** the monetary limits on municipal tort liability established by Minn. Stat. § 466.04.

☐ The member **WAIVES** the monetary limits on municipal tort liability established by Minn. Stat. § 466.04, to the extent of the limits of the liability coverage obtained from LMCIT.

Date of member's governing body meeting: January 13, 2021

Signature: _____

[Handwritten Signature]

Position: _____

Admin

elm creek

Watershed Management Commission

DRAFT 2

January 7, 2021

2020 WORK PLAN IN REVIEW

Minnesota Rule 8410.0150 requires the Commission to submit to the Board of Water and Soil Resources a financial report, activity report and audit report for the preceding fiscal year. 8410.0150 Subp. 3 outlines the required content of the annual activity report. It includes an assessment of the previous year's annual work plan and development of a projected work plan for the following year.

The Commission's Third Generation Watershed Management Plan identifies issues, priorities, and goals for the ten-year period 2015-2024.

1. Continue to review local development/redevelopment plans for conformance with the standards outlined in the Commission's Third Generation Watershed Management Plan.

a. *Review the current project review fee schedule for fiscal conformity. The Technical Advisory Committee (TAC) reviewed the current project review fee schedule. The members of the TAC compared the fees collected by the Commission for development review projects to the expenses incurred for the review of these projects with the goal of collecting appropriate fees to cover the cost of reviewing projects for compliance with watershed rules. The TAC recommended to the Commission, and the Commission approved on September 9, 2020, the following changes to the project review fees structure:*

1) *Move from the current fee structure to a more flexible escrow structure where applicants will be required to fund the cost of the review in full.*

2) *Collect a 10% administration fee and a 15% technical service fee to help offset the cost of administrative needs and questions submitted to the Commission prior to a formal application.*

3) *Limit the amount of time Commission technical advisors spend on pre-project Q & A to two hours.*

The revised fee schedule, along with its Policy on Project Review Fees, which was also approved on September 9, 2020, were transmitted to the member cities by the Commission on September 18, 2020

b. *Review local development/redevelopment plans for conformance with the standards outlined in the Commission's Third Generation Watershed Management Plan. Forty-two projects, along with six carry-over projects, were reviewed by the Commission in 2020. The Commission does not have a permit program.*

2. Continue to partner with the Three Rivers Park District (TRPD) to share in the costs of conducting lake and stream monitoring in the watershed. Under a five-year cooperative agreement approved in 2018 TRPD will be responsible for monitoring three of twelve sampling stations every year for continuous flow and monitor water quality nutrient data. TRPD will also be responsible for monitoring four of fifteen lakes in the Elm Creek watershed annually plus other specific lakes that have been approved for monitoring by the Commission. In addition, under the cooperative agreement, the Commission and the Park District will provide financial support to assist the monitoring efforts of the USGS stream gauging station on Elm Creek. *In 2020 the Park District monitored Diamond Creek (DC), Rush Creek main stem (RT), and Elm Creek above Rice Lake (EC77). In addition TRPD monitored Diamond, Fish, and Weaver lakes and the main basin of Rice Lake and continued its support of the USGS stream gauging station in Champlin.*

3. Fund the monitoring of one lake through Metropolitan Council's Citizen Assisted Monitoring Program (CAMP). *Teal Lake in Maple Grove was monitored by members of the Teal Lake Conservation Association in 2020. Results of the 2020 monitoring will be provided in the 2020 CAMP Report, available in 2021 at <https://metro council.org/Wastewater-Water/Services/Water-Quality-Management/Lake-Monitoring-Analysis/Citizen-Assisted-Monitoring-Program.aspx>.*
4. Continue to operate the monitoring station in Champlin in cooperation with the United States Geological Survey (USGS). *Both grab samples and storm runoff samples were collected and analyzed for various parameters. Real time data from the monitoring station is available on the Internet at http://waterdata.usgs.gov/mn/nwis/uv/?site_no=05287890&PARAMeter_cd=00065,00060.*
5. Promote river stewardship through Hennepin County's RiverWatch program with three sites in 2020. *Due to the COVID-19 pandemic, volunteer macroinvertebrate monitoring was not conducted in 2020.*
6. Participate in the MN Wetland Health Evaluation Program (WHEP) with four wetlands in 2020. *Likewise, citizen volunteers were not recruited for wetland monitoring in 2020 due to the pandemic.*
7. Conduct the biennial solicitation of interest proposals for administrative, legal, technical and wetland consultants. *This process will be repeated in January 2021.*
8. Continue as a member of the West Metro Water Alliance (WMWA). *The Commission continued its membership in WMWA. Dayton representative and Commission Chairman Doug Baines represented the Commission at WMWA's monthly meetings and Plymouth Commissioner Catherine Cesnik served as the Alliance's Project Coordinator.*
9. Promote "Lawns to Legumes," a program for residents to seed their lawns with a bee lawn mix, targeting habitat for the Rusty-patched bumblebee, an endangered species. The Board of Water and Soil Resources (BWSR) will run the program with funding coming to Hennepin County serving as a Conservation District. *(See 10., below.)*
10. Sponsor workshops as part of the Commission's Education and Public Outreach Program. The workshops are presented by Metro Blooms. *Champlin hosted a Resilient Yard/Turf Alternatives Workshop on April 14, 2020. The workshop introduced the audience to the four planting types promoted through the Lawns to Legumes Program. Due to the pandemic, content was presented through an online platform. While only five attendees were from the Champlin area, the workshop reached 37 residents from across the metro area and two folks from Brainerd and Winona were also among the attendees. The City intends to continue replaying the workshop on QCTV for Champlin residents. Attendees rated this new format as "above-average" or excellent. Eighty percent indicated they are likely to install pollinator habitat within a year; 39% responded that they are likely/very likely to install a raingarden within two years; and 93% indicated they were likely/very likely to install native plants in their yards this year.*
11. Continue as a member of Blue Thumb and WaterShed Partners and a partner in the NEMO (Nonpoint Education for Municipal Officials) program. *While the Commission continued its membership in Blue Thumb and WaterShed Partners, the NEMO program was inactive in 2020.*
12. Continue to work in partnership with the University of Minnesota's agriculture specialist to help build relationships with the agricultural community in the watershed in order to achieve TMDL load reductions. *COVID-19 also limited the work of the U of M ag specialist within the watershed. No projects were completed in 2020.*
13. Work with the Hennepin County Rural Conservation Specialist. Assist landowners in identifying BMPs for implementation throughout the watershed. Work with member cities to identify projects that will result in TMDL load reductions. The following projects were identified in 2020:

- a. *A large project taking place west of Jubert Lake in Corcoran involves multiple components and landowners. Several grassed waterways, a sediment basin, and a water control structure are being designed in partnership with the landowners, with implementation expected in 2020-2021.*
- b. *A second project in Corcoran is currently under review by the city's WCA consultant for feasibility.*
- c. *Exclusion fencing and rotational grazing plan are being developed for a landowner in Corcoran to keep horses/goats out of an ephemeral wetland area during wet seasons. Some pasture improvements/refreshing will also be undertaken in the rest of the pasture.*
- d. *A project just north of Diamond Lake has been identified to reduce manure runoff downhill into a wetland that feeds directly into the lake in Dayton.*
- e. *Inspection of County Ditches 3 and 16 in Corcoran/Maple Grove will occur to determine their baseline condition prior to remedial working being performed.*

14. Send call out to member cities, requesting them to provide updates to the projects already included on the Commission's Capital Improvement Program (CIP) as well as inform the Commission of new projects that they would like to have considered for inclusion on the CIP. Hold public meeting, adopt amendment to the Third Generation Watershed Management Plan, conduct public hearing, and certify levy to Hennepin County. *Three projects, (1) the Elm Road Area Stream Restoration project in Champlin, (2) the Corcoran City Hall Parking Lot project, and (3) the Elm Creek Stream Restoration Phase IV Hayden Lake Outfall project in Champlin, were added to the CIP in 2020. The Rush Creek South Improvement project in Maple Grove, was removed from the CIP and the timing for the Fox Creek South Pointe project in Rogers was shifted from 2019 to 2021. In addition, more specificity was added to two projects, (1) Livestock Exclusions, Buffers, and Stabilizations and (2) Agricultural BMPs Cost Share, both in the Rush Creek Subwatershed. The Minor Plan Amendment to make these updates was adopted by the Commission at a public meeting held on June 10, 2020.(Also see 16, below.)*

15. Undertake high priority projects identified in the Rush Creek Headwaters Subwatershed Assessment. *2020 proposed activity could include grassed waterways, alternate/closed tile intakes, manure management projects, grazing plans and exclusion fencing. (See 13, above.)*

16. Continue to support City-sponsored projects using the ad valorem funding mechanism. Conduct public hearing for identified projects. *A public hearing was held on September 9, 2020, whereat the following projects were certified for County ad valorem levy: Project 2020-01 Livestock Exclusions, Buffers, Stabilizations in the cities of Corcoran and Rogers; Project 2020-02 Agricultural Best Management Practices Cost-Share in the cities of Corcoran and Rogers; and Project 2020-03 Enhanced Street Sweeper in the City of Plymouth. The total amount of the levy was \$137,562.*

17. Adopt a 2021 operating budget. *At its June 10, 2020 regular meeting the Commission approved a 2021 operating budget totaling \$700,510. To fund this budget, the Commission approved member assessments of \$237,300, a zero increase over the current year's assessments.*

18. Continue to populate and maintain the Commission's website www.elmcreekwatershed.org to provide news to residents, students, developers and other individuals interested in the water resources of the watershed. *The website analytics for 2020 are included with this document.*

19. Publish an annual activity report summarizing the Commission's yearly activities and financial reporting. *The Commission's 2019 Annual Activity Report was accepted by the Commission at its April 8, 2020 meeting and submitted to the Board of Water and Soil Resources (BWSR) as prescribed by MN Rules. The Commission's 2019 Annual Audit Report was accepted by the Commission at its June 10, 2020 meeting and submitted to the State Auditor online per compliance guidelines.*

20. For the 2020-2021 biennium of the Watershed-Based funding program BWSR decided to allocate the funds based on major watershed divides. *Elm Creek is in the Mississippi West Major Watershed (MWW) which will be allocated \$874,153. A partnership must be developed consisting of at least one representative from each*

watershed district, watershed management organization, soil and water conservation district, county and at least two municipalities within the MWW. The partnership will coordinate development of a watershed-based budget for submittal to BWSR for approval. Funds become available July 1, 2020. Grants from these funds expire December 31, 2023. *The Commission submitted two projects, Rush Creek Restoration and Elm Creek Restoration with requests of \$200,000 and \$300,000, respectively. The Commission was awarded a total of \$281,996.20.*

21. Continue to update the Special Flood Hazard Areas on the FEMA Floodplain maps located within the watershed into current modeling packages. *The total budget for this project in Elm Creek is \$92,772.45 and does not require a local match. The term of the contract extends into the year 2020. Work on this project was initiated by Hennepin County Environment and Energy. As a result of a change in personnel at HCEE, the Commission contracted with Barr Engineering to complete the project. As work progressed, it was determined that the budget for this project would be overspent and work was suspended pending resolution of this issue. By year-end, the funding issue had been resolved and work resumed. A second amendment to the agreement between the Commission and the Department of Natural Resources (DNR) is being drafted to cover the revised contract amount.*

22. Support the City of Maple Grove and its partners as they undertake a subwatershed assessment for Weaver Lake. *The City of Maple Grove applied and was approved for funding in February 2020 by the Commission for an assessment of the subwatershed draining to Weaver Lake, to be completed by WSB at a total cost of \$30,000. The Commission will pay 25% (\$7,500), with the City paying the remainder. A draft of the assessment has been completed and is out for review by the Weaver Lake Improvement Association. Comments are expected back in January 2021.*

23. Support the City of Corcoran and its partners as they undertake a subwatershed assessment for the South Fork of Rush Creek. *A small portion of the South Fork also flows through the cities of Maple Grove and Medina. The City of Corcoran applied and was approved for funding in February 2020 by Commission for an assessment of the subwatershed draining to the South Fork of Rush Creek, to be completed by Wenck Associates at a total cost of \$58,800. The Commission will pay 14% (\$8,820), with the proceeds from a Clean Water Fund Grant (or similar) and the cities of Corcoran, Medina, and Maple Grove paying the remainder. City Staff recognize a need to generate local funds and have discussed a stormwater utility as development expands into the MUSA area as well as considerations for rural Corcoran. Council level discussions are likely to occur in 2021.*

24. Support the City of Dayton and its partners to continue efforts for completion of the Diamond Lake subwatershed assessment. *The City of Dayton applied and was approved for funding by the Commission in August 2019 for an assessment of the subwatershed draining to Diamond Lake, to be completed by Wenck Associates at a total cost of \$59,000. The Commission will pay 25% (\$14,750), with the City of Dayton paying the remainder, \$45,250. Three Rivers Park District, City of Rogers, and the City of Champlin are all project partners but aren't contributing any funds to the project. The project will be completed in early 2021.*

25. Minnesota's New Buffer Initiative requires public waters in the state - lakes, rivers and streams - to be surrounded by vegetated buffers 50-feet wide (on average) and public ditches to have 16.5-foot wide buffers as well. *Buffer review will be completed for Champlin, Dayton, Maple Grove, and Plymouth in 2020. At year-end, all properties in these four cities were in compliance.*

Audience Overview

SAVEEXPORTSHAREINSIGHTS

All Users
100.00% Users

+ Add Segment

Jan 1, 2020 - Dec 31, 2020

Overview

Users

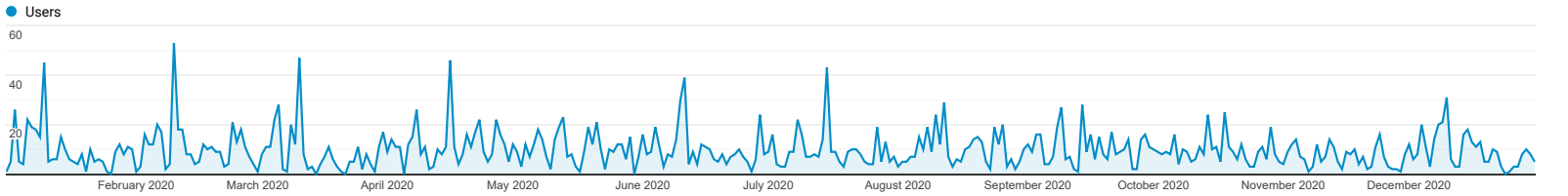
VS. [Select a metric](#)

Hourly

Day

Week

Month



Users
2,626

New Users
2,577

Sessions
3,958

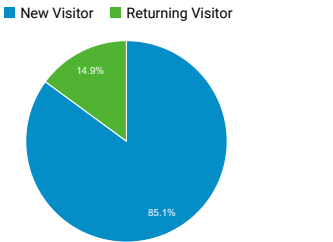
Number of Sessions per User
1.51

Pageviews
8,174

Pages / Session
2.07

Avg. Session Duration
00:01:38

Bounce Rate
57.18%



Demographics		Language		Users		% Users	
Language		1. en-us		2,368		89.94%	
Country		2. en		244		9.27%	
City		3. en-gb		8		0.30%	
System		4. en-ca		5		0.19%	
Browser		5. en-us		2		0.11%	

Pages

SAVE EXPORT SHARE INSIGHTS

Jan 1, 2020 - Dec 31, 2020



All Users
100.00% Pageviews



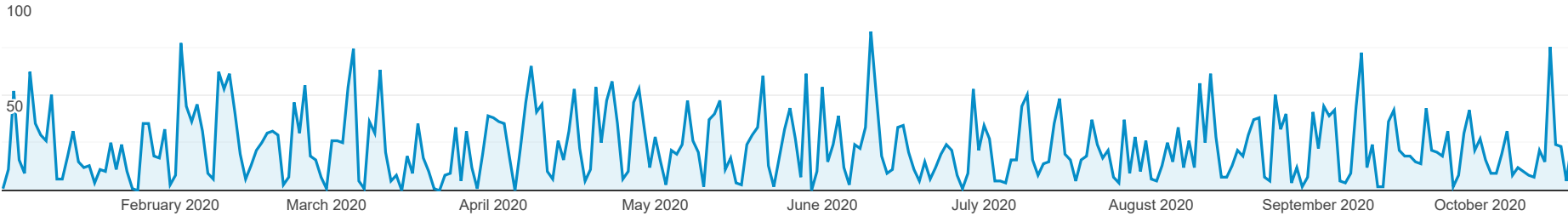
+ Add Segment

Explorer Navigation Summary

Pageviews vs. Select a metric

Day Week Month

Pageviews



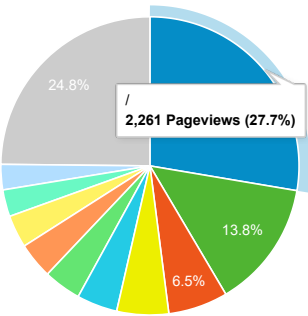
Primary Dimension: Page Page Title Other


























Plot Rows Secondary dimension Sort Type: Default

advanced









<input type="checkbox"/>	Page	Pageviews	Pageviews
		8,174 % of Total: 100.00% (8,174)	8,174 % of Total: 100.00% (8,174)
<input type="checkbox"/>	1. /	2,261	27.66%
<input type="checkbox"/>	2. /minutes--meeting-packets.html	1,131	13.84%
<input type="checkbox"/>	3. /lakes.html	529	6.47%
<input type="checkbox"/>	4. /application-requirements.html	459	5.62%
<input type="checkbox"/>	5. /locations-and-maps.html	360	4.40%
<input type="checkbox"/>	6. /project-reviews-overview.html	333	4.07%
<input type="checkbox"/>	7. /staff.html	319	3.90%
<input type="checkbox"/>	8. /meetings.html	289	3.54%
<input type="checkbox"/>	9. /history.html	238	2.91%
<input type="checkbox"/>	10. /contact-us.html	225	2.75%

Contribution to total: Pageviews



<input type="checkbox"/>	Page	Pageviews ▼	Pageviews
		8,174 % of Total: 100.00% (8,174)	8,174 % of Total: 100.00% (8,174)
<input type="checkbox"/>	11.  /third-generation-plan.html	196	2.40%
<input type="checkbox"/>	12.  /elm-creek-projects.html	175	2.14%
<input type="checkbox"/>	13.  /annual-reports.html	122	1.49%
<input type="checkbox"/>	14.  /commissioners.html	119	1.46%
<input type="checkbox"/>	15.  /technical-advisory-committee.html	119	1.46%
<input type="checkbox"/>	16.  /commission.html	112	1.37%
<input type="checkbox"/>	17.  /project-reviews.html	105	1.28%
<input type="checkbox"/>	18.  /rush-creek-swa.html	103	1.26%
<input type="checkbox"/>	19.  /management-plan.html	92	1.13%
<input type="checkbox"/>	20.  /streams.html	91	1.11%
<input type="checkbox"/>	21.  /buffers.html	90	1.10%
<input type="checkbox"/>	22.  /wetlands.html	83	1.02%
<input type="checkbox"/>	23.  /water-quality-overview.html	80	0.98%
<input type="checkbox"/>	24.  /commission-overview.html	79	0.97%
<input type="checkbox"/>	25.  /education-materials.html	48	0.59%
<input type="checkbox"/>	26.  /links.html	48	0.59%
<input type="checkbox"/>	27.  /mids.html	48	0.59%
<input type="checkbox"/>	28.  /tmdls.html	47	0.57%
<input type="checkbox"/>	29.  /water-quality.html	47	0.57%
<input type="checkbox"/>	30.  /wmwa.html	44	0.54%
<input type="checkbox"/>	31.  /volunteer.html	38	0.46%
<input type="checkbox"/>	32.  /budget.html	34	0.42%
<input type="checkbox"/>	33.  /education-grants.html	31	0.38%
<input type="checkbox"/>	34.  /get-involved.html	27	0.33%
<input type="checkbox"/>	35.  /green-yard-and-raingarden-workshops.html	24	0.29%

Contribution to total: Pageviews ▼

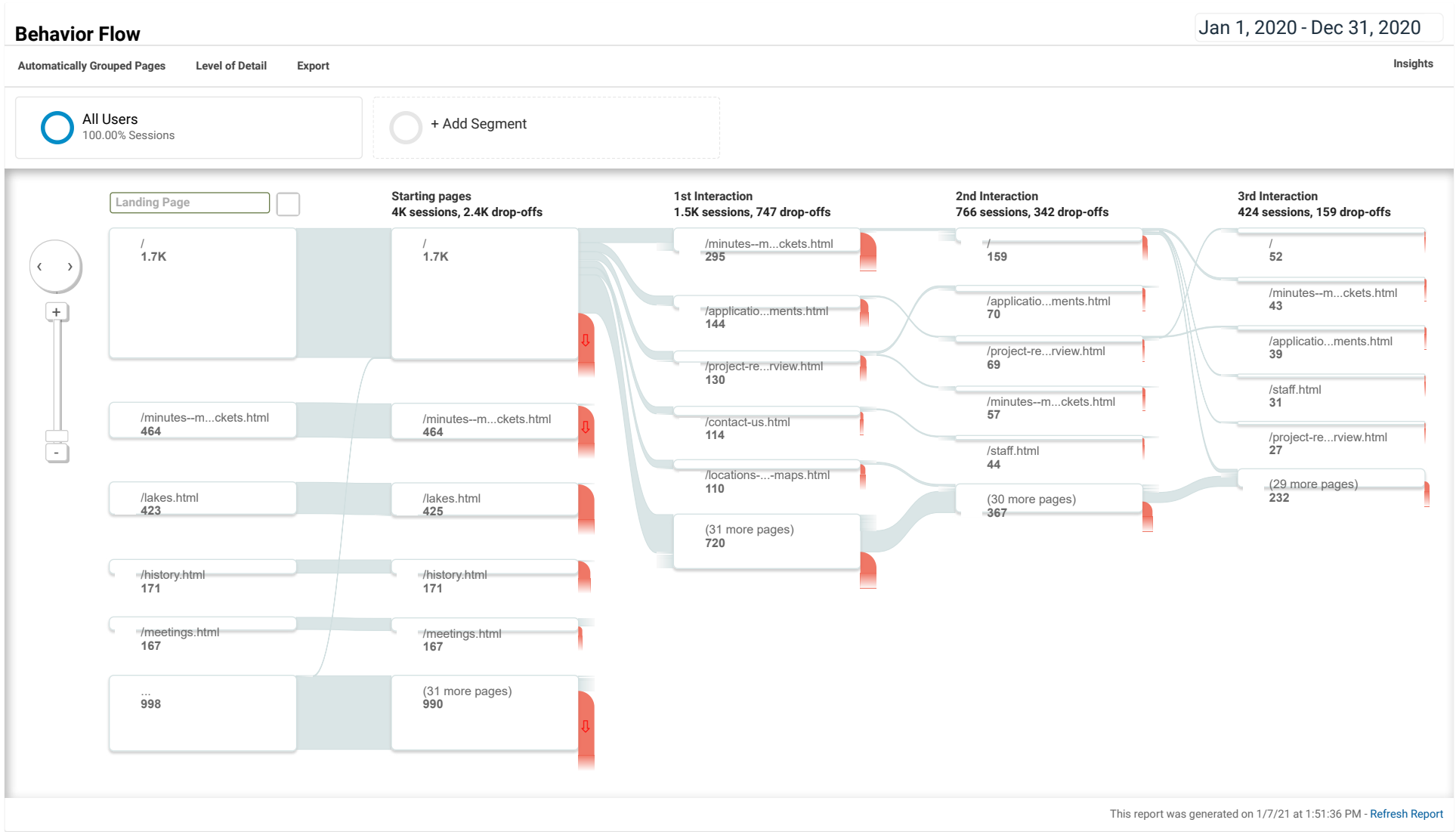
<input type="checkbox"/>	Page	Pageviews	Pageviews	Contribution to total: Pageviews
		8,174 % of Total: 100.00% (8,174)	8,174 % of Total: 100.00% (8,174)	
<input type="checkbox"/>	36.  /citizens-advisory-committee.html	20	0.24%	
<input type="checkbox"/>	37.  /lakes.html?back=https://www.google.com/search?client=safari&as_qdr=all&as_occt=any&safe=active&as_q=how+much+is+the+average+Hassan+Minnesota+lakes&channel=aplab&source=a-app1&hl=en	2	0.02%	
<input type="checkbox"/>	38.  /?fbclid=IwAR1N9siodbAnmQzqXI4xJOk1Ty4_xjEPQ7qQf9xD8_ITc03dSampek-XS9A	1	0.01%	
<input type="checkbox"/>	39.  /?fbclid=IwAR3uRY_ZTBHfbiajEn77crl8G8P_RgLNHI6nbOsO4GC4IVYF34kZGdDh_7Q	1	0.01%	
<input type="checkbox"/>	40.  /?reqp=1&reqr=	1	0.01%	
<input type="checkbox"/>	41.  /?semalt.com/11=	1	0.01%	
<input type="checkbox"/>	42.  /?semalt.com/23=	1	0.01%	
<input type="checkbox"/>	43.  /?semalt.com/27=	1	0.01%	

Show rows: 50

Go to: 1

1 - 43 of 43

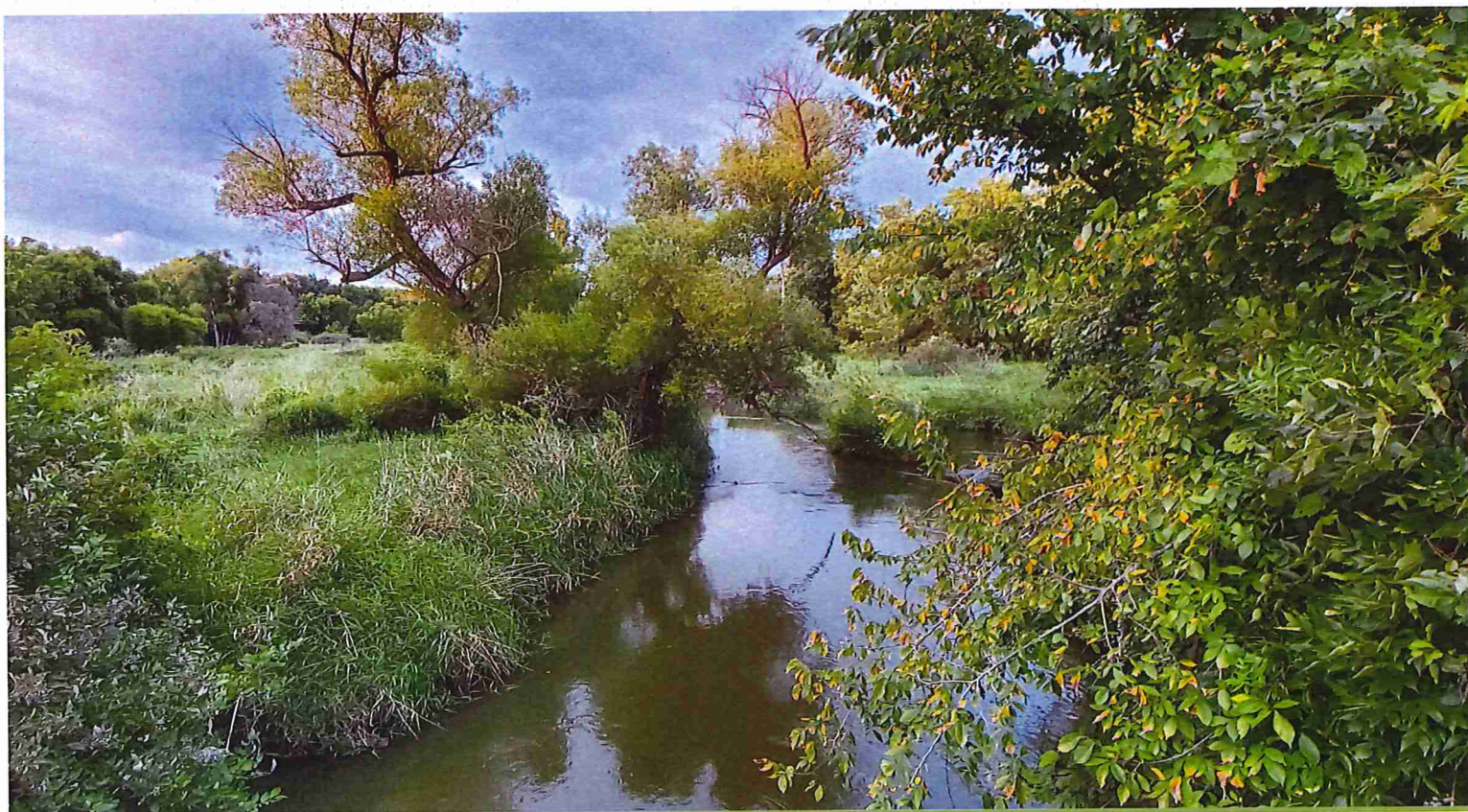
This report was generated on 1/7/21 at 2:03:50 PM - [Refresh Report](#)



[illegible]

letter of interest to provide
technical consulting services for 2021 & 2022

prepared for
Elm Creek Watershed Management Commission



resourceful. naturally.
engineering and environmental consultants



January 5, 2021

Mr. Doug Baines, Chair
Elm Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth, Minnesota 55447

Re: letter of interest to provide technical consulting services for 2021 & 2022

Dear Mr. Baines:

Barr Engineering Co. and Surface Water Solutions, LLC (Jim Kujawa) are pleased to submit this proposal to continue to serve the Elm Creek Watershed Management Commission. This letter of interest highlights our qualifications to evaluate development-proposal site designs for compliance with the Commission's *Third-Generation Watershed Management Plan* and perform other technical tasks as directed by the Commission. In a trusted-partner capacity, Barr has been providing similar services to watershed management organizations for more than 50 years, including evaluating, planning, and developing plans and designs related to drainage, hydrologic and water quality requirements, stormwater management, erosion and sediment controls, floodplain, wetlands, shoreland, and natural-resource preservation issues.

Some of the benefits Barr has to offer include:

- **Familiarity.** Through our work with the Commission and Hennepin County Environment and Energy over the past 15 years, we have become familiar with your approach to watershed management. We understand your organization's goals, procedures, and rules. In addition, Barr is not a city engineer for any of the member communities, so we are dedicated solely to the interests of the Commission.
- **Continuity.** Over the past year, Barr staff have worked closely with the Commission to navigate the transition from Hennepin County to Barr as the Commission's lead technical services provider. Barr included Jim Kujawa on our team to facilitate a smooth transition. We will continue to leverage Jim's extensive knowledge of the watershed to efficiently deliver project reviews, wetland services, and other technical services, as requested by the Commission. In 2020, Barr assisted the Technical Advisory Committee with the development of a new escrow-based fee schedule for project reviews. We are poised to support the administrator with the documentation and tracking necessary to implement the new fee system.
- **Credibility.** Our depth and breadth of staff allows us to offer comprehensive water-resources management services. We have established a reputation as experts in water-resources management, including development review, stormwater and water quality management, and site design for several major watershed management organizations in the Twin Cities metro area.

We look forward to continuing our successful working relationship. If you have any questions, please contact me (952-832-2784, jherbert@barr.com) or Joe (952-832-2984, jwaln@barr.com).

Sincerely,

A handwritten signature in blue ink that reads "Jim Herbert".

Jim Herbert, PE
Vice President, Principal in Charge

A handwritten signature in blue ink that reads "Joseph J. Waln".

Joseph J. Waln, PE, CFM
Project Manager

contents

company description	1
project team.....	4
Barr's watershed management services	8

Attachment A: project experience

Attachment B: 2021 fee schedule

WR03P196.20

company description

our origins

Barr's roots extend back to the early 1900s with Adolph Meyer, one of the first hydrologists in the United States. Doug Barr began work with Mr. Meyer in the 1950s and built a practice of his own while learning from this skilled hydrologist. By the time the company was incorporated as an employee-owned firm in 1966, it had 16 employees. Today, Barr Engineering Co. has nearly 900 employees located in Minnesota, North Dakota, Missouri, Michigan, Colorado, Utah, and Alberta.

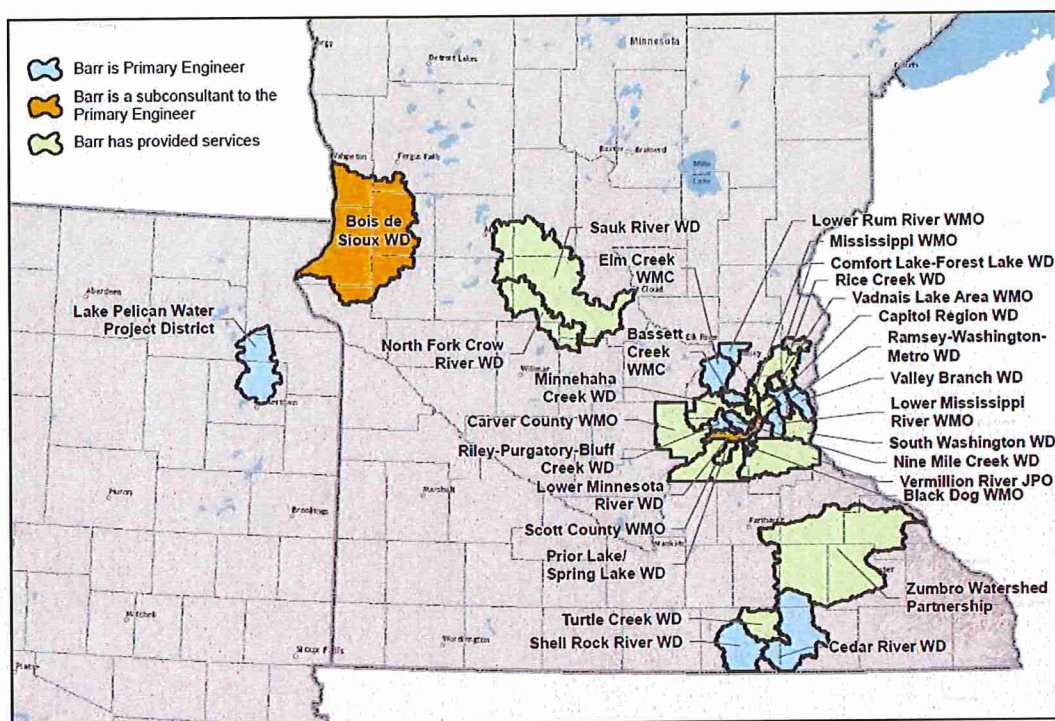
a focus on water resources

Our commitment to water resources remains strong. More than 125 of our 475 Minneapolis-based engineers, scientists, and support specialists are engaged in water-resources engineering and design, stormwater management, wetland management, limnology, and landscape ecology. Our breadth and depth of experience means that we can provide an innovative solution to any water resources challenge you encounter. Our areas of expertise in water resources include:

- evaluating site designs for development proposals
 - including review of erosion and sediment control plans
- stormwater management and BMP design
 - including hydrologic and hydraulic modeling
- wetlands and Wetland Conservation Act administration
- watershed and water-resources management planning
 - including grant applications
- water quality management
 - including aquatic invasive species management
- ecosystem planning, landscape ecology, and landscape architecture
 - including natural resources preservation
- river, stream, and shoreline restoration
- floodplain management
- groundwater and hydrogeology

Barr has been working with the Elm Creek Watershed Management Commission since 2005 and has developed a thorough understanding of the watershed and its characteristics. Our services to the Commission have included:

- project and development reviews to verify compliance with Commission rules and recommendations to the Commission regarding approvals
- reviews of local water-management plans for compliance and consistency with watershed goals and policies
- participation in technical advisor committee meetings
- ongoing monitoring of wetland mitigation sites and preparation of annual reports
- participation in technical evaluation panels on behalf of the Commission



Barr offers services to many watershed management organizations.

We also serve as the primary engineer for 12 other watershed management organizations and watershed districts (see the illustration above), providing a wide range of expertise to watershed organizations across Minnesota. The table on the following page illustrates the services areas we have provided to the Commission, as well as those for the watershed organizations with whom we have long-term working relationships.

2020 Elm Creek accomplishments

For Elm Creek Watershed Management Commission, 2020 was a year of transformation—not only did the Commission transition its technical services from Hennepin County to Barr (a privately held, employee-owned company), it had to adapt to pandemic restrictions that prevented in-person meetings. The Commission, TAC, and Barr (along with our partner Jim Kujawa) quickly adjusted to the challenges and carried on with our important work. Following are a few noteworthy accomplishments:

- Received 42 development review applications. About three quarters have been approved, and several more will be recommended for approval at the Commission's next meeting.
- Karen Wold and Jim Kujawa represented the Commission at several Technical Evaluation Panel (TEP) meetings, explaining how the Commission is meeting its responsibility in accordance with the Wetland Conservation Act.
- Provided guidance to the technical advisory committee (TAC) on how other WMOs manage development reviews and fee schedules. We helped the administrator track spending on development reviews to inform the TAC as they considered alternative fee schedules.
- Attended 12 regular Commission meetings and 7 TAC meetings with 2 TAC subcommittee meetings (budget discussion and fee schedule discussion).

- Participated in TAC and other technical discussions focused on CIP updates and adopting the minor plan amendment to the Watershed Management Plan.
- Represented the Commission on the Manufactured Treatment Device (MTD) work group led by the MPCA and split costs with the Bassett Creek Watershed Management Commission, saving money for both organizations.
- Assisted with the drafting of policies for: a) cost share on non-structural practices and b) development of a new escrow-based fee schedule for project reviews
- Fulfilling a separate contract to provide updated flood risk mapping for the watershed. Negotiated with DNR to support a more comprehensive hydrologic analysis to provide better flow frequency data for streams within the watershed.

Barr's services to watershed organizations

watershed organization	review of development and erosion/sediment control plans	watershed management planning, and grant applications	stormwater management and BMP design	river, stream, and shoreline restoration	stream and lake monitoring	water-quality studies and implementation	aquatic plant management	capital improvement program assistance	innovative stormwater and flood design services	Federal, state, and local rules and NPDES permitting	wetland services
Bassett Creek WMC	•	•	•	•	•	•	•	•	•	•	•
Black Dog WMO		•	•		•	•	•	•	•		•
Capitol Region WD	•	•	•	•	•	•		•	•	•	•
Carver County WMO		•	•			•			•		•
Cedar River WD	•	•	•		•	•	•	•	•	•	•
Elm Creek WMC ¹	•	•	•		•	•		•	•	•	•
Lake Pelican WPD		•	•			•		•	•		
Lower Mississippi River WMO		•	•	•	•	•	•				•
Lower Rum River WMO		•	•	•		•		•		•	•
Mississippi WMO		•	•	•		•		•	•	•	•
Nine Mile Creek WD	•	•	•	•	•	•	•	•	•	•	•
North Fork Crow River WD		•	•	•	•						•
Ramsey-Washington WD	•	•	•	•	•	•	•	•	•	•	•
Prior Lake-Spring Lake WD		•	•		•	•				•	•
Riley-Purgatory-Bluff Creek WD	•	•	•	•	•	•		•	•	•	•
Sauk River WD		•	•	•	•	•	•	•			•
Scott WMO		•	•	•	•	•		•	•		•
Shell Rock River WD	•	•	•	•	•	•	•	•	•	•	•
Turtle Creek WD		•	•		•	•					
Valley Branch WD	•	•	•	•	•	•	•	•	•	•	•
Zumbro WP				•	•	•		•			

¹Including services provided by Surface Water Solutions, LLC (Jim Kujawa)

project team

Barr will continue to partner with Surface Water Solutions, LLC (Jim Kujawa), former Hennepin County technical advisor for the WMC. Barr values long-term relationships with our clients. For that reason, we strive to provide you with high-quality, consistent service. The following pages include brief biographies of the Barr staff members who are currently working on the Elm Creek Watershed Management Commission's projects or who have served the Commission in the past. These same team members will continue to provide the Commission with the high level of service you have come to expect from Barr and Mr. Kujawa.

Barr uses a project team approach that matches our expertise with the unique requirements of each project and client. Directed by Jim Herbert and Joe Waln, our team has been created specifically to meet the needs of the Commission in 2021 and beyond. In addition to the staff members listed here, you can expect Barr to access its deep bench of water-resources staff members and design engineers to provide you with comprehensive services.



2021 billing rate:
\$200

Jim Herbert, PE
Vice President, Senior Civil Engineer, Principal in Charge
BS, Civil Engineering

Jim will continue to serve as principal in charge for Barr's work with the Commission. Having also served the Bassett Creek Watershed Management Commission since 1986 and the Capitol Region Watershed District since 2005, he is very familiar with the goals and needs of watershed management organizations. He will be responsible for Barr's overall work and will support Joe Waln and Jim Kujawa as they manage technical and wetland services to the Commission. Jim's watershed work has included:

- Reviewing development proposals for conformance with water quality standards, floodplain mitigation criteria, erosion control, and other policies.
- Coordinating and participating in Bassett Creek Watershed Management Commission flood control project inspections, including inspection of the Bassett Creek double box culvert and deep tunnel located beneath the city of Minneapolis.
- Completing engineering studies and design of hydraulic structures and preparing permits.
- Designing and constructing large infrastructure rehabilitation projects.
- Managing lake-level and stream monitoring programs.



2021 billing rate:
\$160

Joe Waln, PE, CFM
Senior Water Resources Engineer, Project Manager
BS, Civil Engineering

Joe will continue to serve as the project manager and lead reviewer for Barr's work with the Commission. Joe has more than 17 years of experience in civil and water resources engineering. His project work frequently involves floodplain management design and analysis, detailed hydraulic and hydrologic modeling, scour analysis, mine water management, dam breach analysis, stormwater management, watershed best management practice (BMP) studies, cost estimating, and preparation of plans and specifications. Joe is a certified floodplain manager. Joe's watershed work has included:

- Reviewing development proposals for conformance with water quality standards, floodplain mitigation criteria, erosion control, and other policies for Elm Creek Watershed Management Commission and Valley Branch Watershed District.

- Serving as senior advisor for hydrologic modeling, hydraulic modeling, and regulatory floodplain map updates for the Elm Creek watershed.
- Managing design of a stormwater pond expansion in Apple Valley, Minnesota, to provide extended detention that helps the city reach phosphorous and total-suspended-solids removal targets for a watershed.



2019 billing rate:
\$100

James C. Kujawa

Water Resources Specialist

AAS, Soils/Chemical Technology, with an emphasis in Natural Resources Conservation

Jim has 40 years of experience providing technical assistance with services related to water resources, drainage, wetlands, and floodplains to watershed management organizations, the public, townships, cities, counties, and state and federal governmental agencies. Jim has expertise in developing, designing, and constructing best management practices for the protection of natural resources. His work has included:

- Providing lead technical assistance to the Elm Creek Watershed Management Commission for the past 15 years.
- Providing primary technical support to the Pioneer-Sarah Creek Watershed Management Commission for 15 years.
- Serving as a water resources specialist for the Hennepin County Department of Environment and Energy for 15 years.
- Serving as a water resources specialist for the City of Maple Grove for 12 years.



2021 billing rate:
\$120

Heather Hlavaty

Water Resources Engineer

MS, Civil Engineering

Heather has four years of experience in hydrologic and hydraulic modeling, floodplain modeling and permitting, and water quality management. She has developed and updated several PCSWMM, XP-SWMM, and HEC-RAS models, which have been used to determine flooding impacts, establish storm-sewer network deficiencies, redesign culvert crossings, and evaluate lake-level flood elevations. Heather also works on projects addressing stormwater treatment and reuse. Employing Minnesota minimal impact design standards (MIDS), she has designed and sized best management practices such as bioretention basins (rain gardens) and underground storage and reuse structures using AutoCAD Civil 3D. Examples of Heather's work include:

- Conducting stormwater permit reviews for the Elm Creek Watershed Management Commission and Valley Branch Watershed District.
- Conducting feasibility studies and detailed designs of filtration best management practices using AutoCAD, P8, and XP-SWMM in the Valley Branch Watershed District and Riley-Purgatory-Bluff Creek Watershed District.
- Updating an existing detailed PCSWMM model for the Riley-Purgatory-Bluff Creek Watershed District in largely urbanized areas.
- Developing an XP-SWMM model near Downs Lake for the Valley Branch Watershed District, which was used to summarize and evaluate existing lake-level flood elevations.
- Developing XP-SWMM models of the north and southeast regions of Minneapolis, which will be used to evaluate future stormwater planning and development.



2021 billing rate:
\$140

Karen Wold, Certified Wetland Delineator

Senior Environmental Scientist

BA, Environmental Studies

Karen has nearly 20 years of experience in wetland delineations, monitoring, and functional assessments. She has conducted wetland investigations and evaluations for many Minnesota watershed management organizations as well as municipal, county, industry, and commercial clients. Karen prepares mitigation monitoring reports on wetland development, documents compliance with permit conditions, and makes recommendations for management needs. Her work also involves preparing Section 404 permit applications and Wetland Conservation Act wetland replacement plans. Karen's watershed and local government unit work has included:

- Conducting wetland mitigation monitoring services for the Commission since 2006 and other local government units including Nine Mile Creek Watershed District and Riley-Purgatory-Bluff Creek Watershed District.
- Serving on the technical evaluation panel for the Valley Branch Watershed District, Nine Mile Creek Watershed District, Bassett Creek Watershed Management Commission, and Lower Rum River Watershed Management Organization for administration of the Wetland Conservation Act.
- Conducting and reviewing wetland delineations, Minnesota Routine Assessment Method assessments, and permit applications for watershed and other local government unit clients, including the Bassett Creek Watershed Management Commission, Ramsey-Washington Metro Watershed District, Riley-Purgatory-Bluff Creek Watershed District, City of Eden Prairie, City of Minneapolis, City of Crystal, Nine Mile Creek Watershed District, and Valley Branch Watershed District.



2021 billing rate:
\$115

Brian Burgner

Senior Ecologist

BS, Natural Resources and Environmental Studies

Brian has nearly 17 years of experience. He has contributed to more than 200 wetland delineation projects in Minnesota and Wisconsin. As a certified wetland delineator, Brian is proficient in mitigation monitoring, soil profile analysis, plant identification, aerial photo interpretation, installation of monitoring wells, hydrology data collection, and global-positioning-system data collection. He is also skilled in wetland permitting, environmental resource reviews using the Natural Heritage Information System, and geographic-information-system analysis. Brian's work includes:

- Conducting functional assessments of wetlands using the Minnesota Routine Assessment Method methodology.
- Performing aerial photo reviews and employing procedures for wetland mapping.
- Creating vegetation management and restoration plans for mitigation wetlands and adjacent upland buffer areas.
- Monitoring mitigation wetlands and developing annual reports that describe mitigation development and management recommendations.



2021 billing rate:
\$115

Lulu Fang

Water Resources Engineer

MS, Civil Engineering; MS, Environmental Science and Engineering

Lulu has more than five years of consulting experience in water resources and environmental engineering. Her focus areas include hydrology and hydraulic modeling, hydraulic structure design and analysis, flood risk assessment, water balance and water quality analysis, contaminant transportation and modeling, and pollution prevention plan design. Lulu's work includes:

- Developing an urbanized detailed XP-SWMM model for the Bassett Creek Watershed Management Commission to determine flood risk and soil erosion.

- Developing five urbanized detailed XP-SWMM models for the City of St. Peters, Missouri, to evaluate current flood conditions and develop channel stabilization design, detention pond extensions, and outlet structure retrofits.
- Modifying and analyzing the City of Edina's XP-SWMM model for Pentagon Park development alternatives.
- Developing a flood damage assessment model for the Mouse River enhanced flood protection project to analyze the flood risk condition before, during, and after proposed hydraulic structure construction.
- Modifying and analyzing an urbanized detailed XP-SWMM model for the I-35W tunnel system in Minneapolis to help determine system efficiency and design proposed underground storage.



2021 billing rate:
\$110

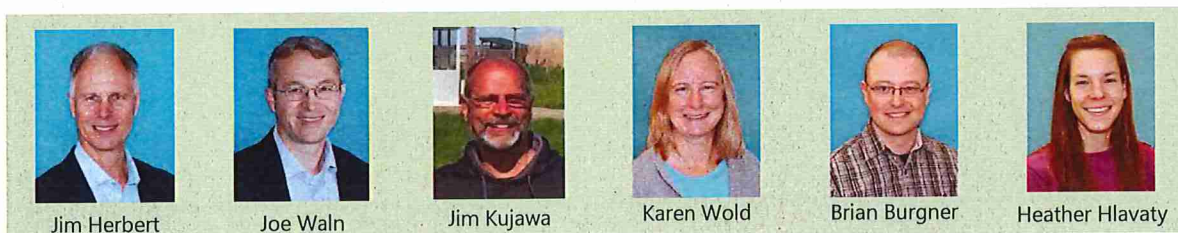
Andrew Austin-Petersen
Water Resources Engineer
MS, Environmental Engineering

Adam has more than four years of experience on projects involving civil engineering and hydrologic and hydraulic analysis. His work at Barr includes:

- Assisting with stormwater planning and watershed management.
- Performing hydrologic and hydraulic modeling and analysis for open-channel and pipe-flow design and design of infrastructure (water control structures, pipes, and pumps).
- Conducting water balance analysis.
- Developing reports, plans and specifications, cost estimates, grading plans, erosion protection plans, and earthwork balance calculations.
- Conducting fieldwork, including construction observation, surveying, collection of hydrologic and water quality measurements, and materials testing.
- Communicating with permitting agencies and public officials.

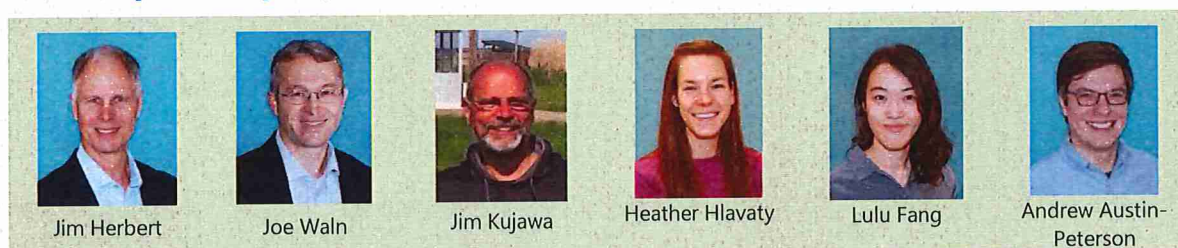
Barr's watershed management services

key team members



As the key project team members, we will address the specific needs of your project, and we will also have access to Barr's nearly 900 engineers, scientists, and support staff. Barr's related project experience is included in Attachment A.

development proposal reviews



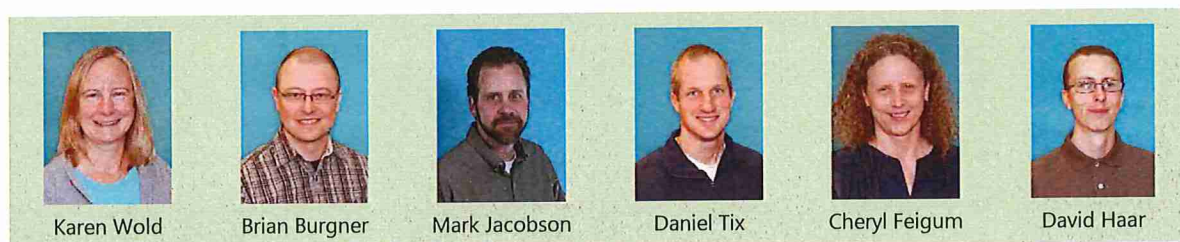
Permitting programs for land alteration activities are one of the ways watershed organizations—and the cities, townships, and counties within their boundaries—can help verify that their water and natural resources are protected and ensure that those aspects of long-term goals and initiatives are implemented. Each year, Barr reviews hundreds of water-resource permits for watershed organizations, counties, and municipalities for compliance with their ordinances and policies and with state requirements.

We also help our governmental clients develop permitting programs for construction projects and land development or redevelopment and regularly review and update these programs so that they provide the needed level of regulatory guidance to be effective, manageable, and enforceable. We are currently assisting with water-resource permitting reviews for the following water management organizations and municipalities:

- Bassett Creek WMC*
- Capitol Region WD
- Cedar River WD*
- **Elm Creek WMC**
- Lower Rum River WMO
- Mississippi WMO
- Nine Mile Creek WD*
- Ramsey-Washington Metro WD*
- Riley-Purgatory-Bluff Creek WD*
- Sauk River WD
- Valley Branch WD*
- City of Blaine
- City of Hastings*
- City of Minnetonka
- City of Willmar*

** Includes assistance with initiating permitting programs*

wetlands and Wetland Conservation Act administration



Wetland management and monitoring is an important issue, and Barr provides this service for many watershed management organizations, municipalities, and developers. We've been involved in Wetland Conservation Act administration since its inception (1991)—acquiring an in-depth knowledge of the law and subsequent amendments.

Barr conducts Wetland Conservation Act administration for the Nine Mile Creek Watershed District, Valley Branch Watershed District, Bassett Creek Watershed Management Commission, Lower Rum River Watershed Management Organization, and City of Crystal. In addition, we provide regulatory review services for the Riley-Purgatory-Bluff Creek Watershed District, City of Minneapolis, and City of Eden Prairie.

services we offer:

- delineation
- classification
- mitigation
- restoration
- functional assessment
- monitoring and reporting
- permitting
- protection and management
- H&H modeling

wetland monitoring

Barr performs wetland mitigation annual monitoring services for the Elm Creek Watershed Management Commission and many public- and private-sector clients, including Nine Mile Creek Watershed District, Riley-Purgatory-Bluff Creek Watershed District, Owatonna Country Club, Willmar Airport, Enbridge Energy, Southern Minnesota Beet Sugar Cooperative, Edward Kraemer and Sons, a Habitat for Humanity housing development in Hugo, and several northern Minnesota mining companies.

additional wetland services

Barr provides other technical wetland expertise for:

- Bassett Creek Watershed Management Commission
- Black Dog Watershed Management Organization
- Capitol Region Watershed District
- Ramsey-Washington Metro Watershed District
- City of Alvarado
- City of Burnsville
- City of Golden Valley
- City of Oslo
- City of Minnetonka
- City of Minneapolis
- City of St. Louis Park
- Scott County
- numerous private-sector clients

watershed and water-resources management planning



Jim Herbert



Joe Waln



Karen Chandler



Greg Williams



Karen Wold



Greg Wilson

services we offer:

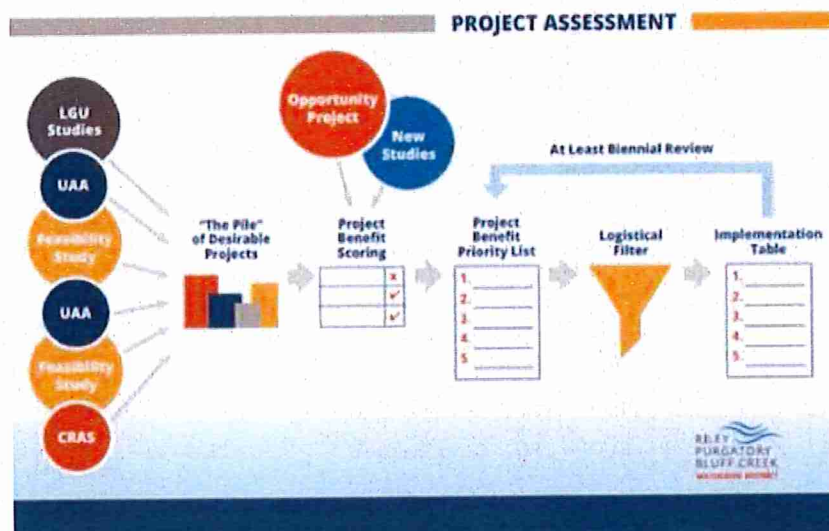
- watershed management planning
- rules and regulations preparation
- governmental agency coordination
- permit review
- stakeholder involvement
- administrative support

Barr has provided engineering expertise to watershed management organizations as well as federal, state, and municipal clients for more than 50 years. Whether a client has a single concern or needs help with multiple complex watershed issues, we can provide workable, affordable, and ecologically friendly solutions. We've written dozens of watershed management plans and updates including first-, second-, third-, and fourth-generation plans (e.g., the RPBCWD, Bassett Creek Watershed Management Commission, Nine Mile Creek Watershed District, Ramsey-Washington Metro Watershed District, Valley Branch Watershed District, Capitol Region Watershed District,

Cedar River 1W1P Partnership, and many more) and have also helped more than 50 cities develop local water-management plans (e.g., Bloomington, Minnetonka, Apple Valley, Farmington, and Lakeville, among others).

We can also help secure grants to fund projects, including brownfields redevelopment, watershed and stormwater management, and flood control projects. We have helped prepare winning applications for public and private clients, with awards ranging from \$10,000 to \$10 million.

Barr helps water management organizations educate their boards and stakeholders about water-related issues. Whether it's facilitating a public meeting about policies or plans, making presentations to boards, or conducting BMP "how-to" workshops, we can employ education as a component of design projects or as an independent service. We use a community-based approach that is inclusive, transparent, and open—providing everyone an opportunity to listen, learn, and participate. We understand that the best solutions often come from stakeholders, which also leads to greater acceptance and buy-in.



As part of assisting the RPBCWD in developing its 10-year plan for 2018 to 2028, Barr helped the district create a quantitative prioritization process to identify projects across varying water resources types throughout the watershed.

stormwater management and BMP design



Jim Herbert



Joe Waln



Heather Hlavaty



Lulu Fang



Andrew Austin-Peterson

Barr takes a green-infrastructure approach to stormwater-management and best management practices design, which highlights the importance of the natural environment in decisions about engineering and land-use planning. Designs created using this approach rely on the life-support functions provided by natural ecosystems, with an emphasis on long-term sustainability. Rooted in ecology, our site designs are community defining, enduring, technically sound, beautiful, and innovative.

We understand that your constituents want to get as much value as possible for their financial contributions to the district. Their goals (besides enhanced water quality) often include improved community health, livability, and economic development. We form interdisciplinary teams of engineers, hydrologists, landscape architects, and ecologists to develop stormwater solutions that look great, accommodate people, and supports ecological function. By addressing economic, social, and environment issues in our designs, we add depth to water management projects.

services we offer:

- review of compliance with watershed policies and design standards
- green infrastructure and low-impact development design
- application of minimum impact design standards (MIDS)
- infiltration and filtration systems
- hydrologic and hydraulic modeling
- stormwater utility design
- National Pollutant Discharge Elimination System permitting
- flood and erosion control
- infrastructure inventory and assessment

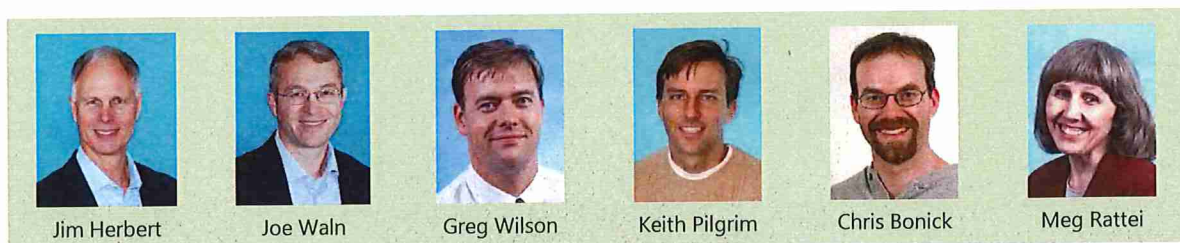
Local and state regulatory agencies have increased their regulation of stormwater, resulting in increased focus on stormwater BMPs that reduce the rate and volume of runoff and the associated pollutant loading. Our knowledge of and experience with alternative and innovative stormwater practices allow us to suggest creative solutions to stormwater problems on challenging sites.

When it comes to urban stormwater BMPs, we wrote the book—the Metropolitan Council's *Minnesota Urban Small Sites BMP Manual*. Barr developed this manual in 2001. It served as a model for the *Minnesota Stormwater Manual*, published by the MPCA in 2005 and last revised in 2019.

From 2010 to 2014, Barr was the primary consultant to the MPCA for the MIDS project, a low-impact development approach to stormwater management that mimics a site's natural hydrology as the landscape is developed. Barr's work on the project included developing and providing

scientific support for volume-based stormwater performance standards, developing stormwater "crediting" methods for innovative stormwater-management techniques, and creating a BMP credit calculator to promote the implementation of low-impact development.

water quality management



Barr provides a number of services to identify and address water quality issues:

modeling: With increased regulation of stormwater and TMDLs to address impaired water bodies, many watershed districts, WMOs, and municipalities are working to implement BMPs and need to know whether their efforts are having the desired results. Using software such as P8, Barr has modeled the effectiveness of BMPs for more than 15 years. We also developed a proprietary software program, SHSAM, to predict the pollutant removal from underground stormwater treatment structures and sump manholes.

monitoring and field services: We conduct water quality monitoring and hydrologic gauging and are equipped with modern sampling gear for lakes, streams, sediments, and groundwater. Our work ranges from routine grab sampling to sophisticated runoff-triggered, flow-paced monitoring (such as continuous monitoring stations).

lake studies: We routinely conduct TMDL analyses, use attainability analyses, and diagnostic feasibility studies for urban lakes. TMDL studies performed for local watersheds include:

- Bassett Creek Watershed Management Commission (Sweeney, Parkers Lake, and Medicine lake)
- Black Dog Watershed Management Organization (Crystal, Keller, Earley, and Lee lakes)
- Nine Mile Creek Watershed District (Nine Mile Creek)
- Ramsey-Washington Metro Watershed District (Kohlman, Keller, and Beaver lakes)
- Riley-Purgatory-Bluff Creek Watershed District (Ann, Lucy, Susan, Riley, Rice, Marsh, Staring, Round, Mitchel, and Red Rock lakes)
- Sauk River Watershed District (Sauk Lake)

services we offer:

- lake studies and restoration
- lake and stream water-quality monitoring
- watershed runoff treatment
- shoreland restoration
- hydrologic and hydraulic modeling
- ecological use classification
- wastewater impact statements
- aquatic invasive species management

monitoring plan development: With four decades of water quality monitoring experience, we can quickly determine the appropriate level of monitoring needed for a cost-effective determination of whether water quality standards and goals have been met or to address other issues.

lab analysis: In circumstances where commercial laboratories do not provide the accuracy and precision required, we use our own lab to analyze monitoring samples. Our lab can analyze phosphorous and nitrogen compounds and biological specimens and perform specialty experiments in support of lake and stream diagnostic-feasibility studies.

existing data compilation review: With expertise in physical, biological, hydrologic, and water chemistry, Barr can analyze, interpret, and summarize data relevant to water quality. Our long Minnesota history also gives us an awareness

ecosystem planning, landscape ecology, & landscape architecture



Fred Rozumalski



Brendan Dougherty



Matt Kumka



Kurt Leuthold



Erin Anderson
Wenz



Michelle Kimble

services we offer:

- rain gardens
- ecosystem restoration
- native plant communities
- master planning
- site design
- restorative landscaping
- lakescaping
- natural resource inventories
- greenway planning
- fish and wildlife management
- education and interpretive planning
- environmental review

We understand that when a project looks good and functions in sync with nature—providing wildlife habitat and an ecologically stable landscape—citizens and public officials are satisfied. We've successfully completed sustainable landscape design projects for a variety of clients ranging from watershed districts and cities to mining companies. Our goal for these projects is to improve environmental quality while creating great outdoor places for people to experience.

Barr has also been planning and designing sustainable landscape design projects for more than 20 years for cities, watershed districts, and industrial clients. We focus on creating multi-use landscape and stormwater management systems to improve environmental quality while creating great outdoor places. We work in concert with nature to design beautiful landscapes that require minimal maintenance. Some of our services include community

planning, natural resources preservation, native plant restoration, sustainable landscape design, and park and trail design. Barr is at the forefront of low-impact site development, taking a green infrastructure approach to stormwater management and BMP design.

river, stream, and shoreline restoration



Joe Waln



Miguel Wong



Tom MacDonald



Briana Drake



Ron Koth



Jessica Olson

Barr has been a leader in implementing ecological methods for stream and river restoration, habitat preservation, and erosion control. Our restoration efforts are informed by the hydrology, geomorphology, biology, water quality, and connectivity of each stream—enabling our engineering solutions to align with the function and character of the stream corridor. We gather data from a variety of sources and then identify problem sources and cost-effective alternatives so that decision makers can make informed, justifiable choices with a full understanding of the expected outcomes. Our restoration projects include work on portions of the following streams:

- Riley Creek
- Bluff Creek
- Battle Creek
- Farney Creek
- Fish Creek
- Nine Mile Creek
- Purgatory Creek
- Raleigh Creek
- Bassett Creek
- Valley Creek
- Minnehaha Creek

services we offer:

- fluvial geomorphology, channel monitoring, and classification
- erosion protection
- streambank stabilization and bioengineering
- sediment transport
- project reviews

floodplain management



Nathan Campeau



Joe Waln



Heather Hlavaty



Scott Sobiech



Andrew Austin-Peterson



Anthony Vecchi

services we offer:

- hydrologic and hydraulic modeling
- flood insurance studies
- floodplain mapping and map revisions
- floodplain permitting
- dam failure analyses
- flood control structures

Since the 1970s, we have worked with FEMA, the U.S. Army Corps of Engineers, and state agencies on floodplain-related projects ranging from small-watershed streams and lakes to large, complex river and basin studies. Our knowledge of agency practices and preferences, along with the relationships we've built, help us shepherd projects successfully through the regulatory process. Our certified floodplain managers specialize in resolving regulatory tangles and modeling issues.

As governments, municipalities, and water management organizations continue to face new flood-management challenges (such as changing climate and precipitation estimates), we continue to provide the tools and expertise necessary to meet changing

needs. Projects frequently include analyzing and designing flooding vulnerability assessments and mapping, flood-risk reduction systems, floodplain-management plans and insurance studies, stormwater management systems, erosion control measures, dam and hydropower facilities, spillway design, structural flood proofing, and water supply and water treatment systems.

groundwater and hydrogeology



Ray Wuolo



Brian LeMon



John Greer



Evan Christianson



Tina Pint

Barr's water system specialists develop and analyze all aspects of water systems, including supply, treatment, storage, and distribution. We have experience with water treatment plants, surface and groundwater, wells and well houses, and associated pumping systems and pipelines. We also have experience navigating the complexity associated with planning and permitting new groundwater and surface-water supplies.

services we offer:

- groundwater modeling and groundwater/surface-water connection analysis
- contaminant transport
- wellhead protection and well design

To be effective, water supply systems need to take into consideration multiple demand-side factors, including population growth projections, land and water use data, per-capita demand, current water systems, hydrology, and conservation concerns. These factors establish the boundaries of how much water will be needed in the present and the future. An area's natural characteristics such as hydrology, geology, hydrogeology, protected natural resources, or the presence of potential sources of contamination, also need to be considered.

Finally, effective systems need to comply with rules and regulations imposed by governing authorities. Barr understands all sides of the equation so we can help you plan and design a system that meets your needs, is feasible within the natural system, and complies with the regulatory world (including wellhead protection requirements). We take this comprehensive approach to provide solutions that are economical and meet U.S. Environmental Protection Agency Safe Drinking Water Act requirements.

Barr's hydrogeologists use groundwater modeling for a variety of different projects, including wellhead protection, water supply studies, groundwater contamination investigations, surface-water/groundwater interface analysis, and geotechnical evaluations. We have been using and developing groundwater flow models since the early 1970s. Our clients appreciate our focus on selecting the right models to control project costs; technical credibility with regulators to facilitate complex negotiations; and ability to explain complicated models to gain public understanding and support.

Attachment A: project experience

watershed management commission project review process

client: Elm Creek WMC

For over 15 years, Barr has supported the Elm Creek Watershed Management Commission's project review process, providing oversight for a range of environmental management activities to ensure that the development plans comply with the Commission's Third Generation Watershed Management Plan. In 2020, Barr replaced Hennepin County as technical staff for the Commission, reviewing all proposed land development and redevelopment projects. Barr partners with Jim Kujawa, Surface Water Solutions, to provide continuity and knowledge sharing from his years of service to the Commission while at the county. The Barr team reviewed over 40 applications in 2020 for:



- development plan reviews
- floodplain management
- wetlands management
- stormwater management
- erosion and sediment control
- water-body crossings or structures
- shoreline and stream-bank improvements

watershed district permit administration

client: Valley Branch Watershed District



As technical advisors to the Valley Branch Watershed District managers, Barr reviews approximately 20 to 40 permits per year for conformance to the district's rules and regulations and the Minnesota WCA. Some of the review items include stormwater rate, volume, and quality; sediment and erosion control; wetland hydrology, impacts, and buffers; and flood levels and associated minimum floor elevations. Barr works with permit applicants to achieve each project's goals while still conforming to the district's rules and regulations. We prepare permit review memoranda and forward them to the permit applicant and officials of the community where the proposal lies, present

the permit application to the managers, and process the approved permit. While the managers have their own inspector who handles the day-to-day inspections of permitted activities, at the direction of the managers, Barr inspects projects that could impact wetlands and performs other inspections as needed.

watershed district permitting program

client: Nine Mile Creek Watershed District



Among other services, Barr provides wetland reviews, monitoring, and recommendations for the NMCWD.

Since 1973, Barr has administered the Nine Mile Creek Watershed District's permitting program, which provides oversight for a range of environmental management activities to help verify compliance with district regulations and the Minnesota WCA. In 2008, Barr helped the district implement revisions to its program based on the district's rule revisions.

Over that five-year period, we have reviewed an average of 65 permits per year. Barr reviews permit applications for:

- floodplain management
- wetlands management
- stormwater management
- erosion and sediment control
- water-body crossings or structures
- shoreline and stream-bank improvements
- sediment removal
- appropriation of public surface waters

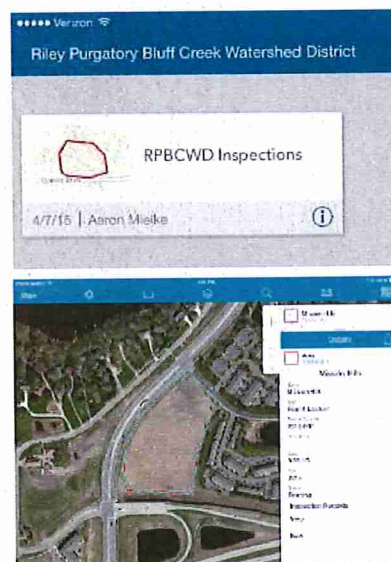
As the district's technical advisor, Barr helps permit applicants meet their project goals within the confines of the district's regulations. We shepherd applicants through the permitting process, including preparing and distributing review memoranda and presenting the application materials to district managers. In addition to permitting assistance, Barr handles day-to-day inspections of permitted activities and assists district managers and staff with evaluating requests for permit variances.

watershed district regulatory program

client: Riley-Purgatory-Bluff Creek Watershed District

In 2014, Barr helped the RPBCWD reinstate the regulatory program based on the district's rule revisions, and since January 1, 2015, we have reviewed permit applications for the district. As the district's technical advisor, Barr assists permit applicants in meeting their project goals within the confines of the district's regulations and helps district managers and staff with evaluating requests for permit variances, financial assurances, and maintenance agreements. We guide applicants through the permitting process, including preparing and distributing review memoranda and presenting the application materials to district managers. Barr reviews permit applications for:

- floodplain management and drainage alterations
- erosion and sediment control
- wetland and creek buffers
- dredging and sediment removal
- shoreline and stream-bank stabilization
- water-body crossings and structures
- appropriation of public waters and groundwater
- stormwater management



Inspection information is collected using the iPad and digital inspection form.

wetland mitigation annual monitoring services

client: Elm Creek Watershed Management Commission



Barr has provided wetland replacement and mitigation monitoring services for the ECWMC since 2006 and has completed the annual monitoring services for several wetland replacement and mitigation sites, which have been certified and complete. We are currently conducting annual monitoring services for one active site. Wetland monitoring services include vegetation and hydrology monitoring throughout the growing season to document compliance with U.S.

Army Corps of Engineers Section 404 permit conditions of project specific wetland mitigation requirements and Minnesota Wetland Conservation Act wetland replacement plan approval requirements and performance standards. We work with the ECWMC, permittee, and vegetation management company by providing recommendations for vegetation management and hydrology adjustments as needed during the growing season. We prepare annual monitoring reports documenting the site status and future work needed to comply with requirements for completion.

Elm Creek floodplain modeling and mapping

client: Elm Creek Watershed Management Commission

The Minnesota Department of Natural Resources obtained a FEMA grant to update regulatory floodplain maps in the Elm Creek watershed. The current maps were created in 1975. The Elm Creek Watershed Management Commission hired Barr to complete the technical services required in the grant agreement. Barr created a new HEC-HMS hydrologic model of the watershed to calculate peak flows for a range of recurrence intervals ranging from the 10-year storm to the 500-year storm. The hydrologic model incorporates NOAA Atlas 14 hydrologic data which replaced the previous standard for hydrology published in 1961. Barr is in the process of using flows from the HEC-HMS model to develop hydraulic models of streams within the watershed. The resulting water surface profiles will be used to map flood inundation extents for the 100-year and 500-year floodplains. The new models and updated mapping will be valuable tools members of the watershed management commission will be able to use to better manage development in the floodplain.

development/redevelopment project reviews

client: Bassett Creek Watershed Management Commission

Since the 1970s, Barr has performed development and redevelopment reviews on behalf of the BCWMC for proposed projects in the Bassett Creek watershed. These reviews help the commission meet its goals of managing the watershed's surface water resources to meet or exceed state water quality standards, reduce stormwater runoff volume to improve water quality, and protect against flood risks along the Bassett Creek trunk system.



This work includes review of erosion and sediment control, rate control, and water-quality treatment; floodplain alterations; surface-water diversions; land-use changes and appropriations; utility crossings and bridges; and Minnesota Department of Natural Resources permit applications. Submittals are also reviewed to confirm that minimal impact design standards (MIDS) are incorporated into the development/redevelopment proposals and make sure any drainage modifications to the Bassett Creek tunnel are properly analyzed. Barr reviews approximately 30 to 40 applications per year.

Attachment B: **2021 fee schedule**



Fee Schedule—2021

Rev. 12/26/2020

Description	Rate* (U.S. dollars)
-------------	-------------------------

Principal	\$160-295
Consultant/Advisor	\$185-250
Engineer/Scientist/Specialist IV	\$155-180
Engineer/Scientist/Specialist III	\$125-150
Engineer/Scientist/Specialist II	\$95-120
Engineer/Scientist/Specialist I	\$65-90
Technician IV	\$155-180
Technician III	\$125-150
Technician II	\$95-120
Technician I	\$65-90
Support Personnel III	\$155-180
Support Personnel II	\$95-150
Support Personnel I	\$65-90

Rates for litigation support services will include a 30% surcharge.

A ten percent (10%) markup will be added to subcontracts for professional support and construction services to cover overhead and insurance surcharge expenses.

Invoices are payable within 30 days of the date of the invoice. Any amount not paid within 30 days shall bear interest from the date 10 days after the date of the invoice at a rate equal to the lesser of 18 percent per annum or the highest rate allowed by applicable law.

For travel destinations within the continental U.S. (CONUS) and Canada, meals will be reimbursed on a per diem basis. The per diem rate will be as published by the U.S. Internal Revenue Service (IRS) based on the High-Low method. Full day per diem rates will be pro-rated on travel days. For travel destinations outside the continental U.S. (CONUS) and Canada, meals will be reimbursed based on actual expenses incurred.

All other reimbursable expenses including, but not limited to, costs of transportation, lodging, parking, postage, shipping and incidental charges will be billed at actual reasonable cost. Mileage will be billed at the IRS-allowable rate.

Materials and supplies charges, printing charges, and equipment rental charges will be billed in accordance with Barr's standard rate schedules.

Principal category includes consultants, advisors, engineers, scientists, and specialists who are officers of the company.

Consultant/Advisor category includes experienced personnel in a variety of fields. These professionals typically have advanced background in their areas of practice and include engineers, engineering specialists, scientists, related technical professionals, and professionals in complementary service areas such as communications and public affairs.

Engineer/Scientist/Specialist categories include registered professionals and professionals in training (e.g. engineers, geologists, and landscape architects), and graduates of engineering and science degree programs.

Technician category includes CADD operators, construction observers, cost estimators, data management technicians, designers, drafters, engineering technicians, interns, safety technicians, surveyors, and water, air, and waste samplers.

Support Personnel category includes information management, project accounting, report production, word processing, and other project support personnel.

*Rates do not include sales tax on services that may be required in some jurisdictions.

January 5, 2021

Mr. Doug Baines, chair
Elm Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

RE: Proposal for Professional Technical Engineering Services, 2021-2022

Mr. Baines,

HZ United, LLC (HZU) is pleased to submit this Letter of Interest to provide Professional Technical Consulting Services to the Elm Creek Watershed Management Commission for 2021 and 2022.

As a minority-owned certified Disadvantaged Business Enterprise (M/DBE), we regularly partner with other design firms to provide specialized water resources engineering design and construction on high profile projects primarily in the Twin Cities. HZU, formed in 2005, is a civil engineering and environmental planning consulting firm well-suited to provide services for capital project feasibility, design, construction documentation, bid process, construction observation, operation and maintenance planning, 2D river modeling, hydrology and hydraulic modeling, water quality modeling, design and implementation of in-pipe continuous monitoring systems, riverbank restoration and slope stabilization.

HZU is a leading consultant for MnDOT for water resources planning, modeling, and construction management projects, providing comprehensive analysis and creative solutions to maximize benefits with minimum expenditures on retrofitting public drainage systems. A recent HZU innovative solution was to save MnDOT over \$200 million on a potential tunneling construction fee on I-494 corridor. HZU utilized alternative design methods and rerouting to achieve approval from FHWA and associated municipalities. In the end, the reduced project scope is effective in meeting drainage goals while saving public expenditures for all stakeholders.

HZU understands that your staff work closely with your member cities on capital improvement projects (Champlin, Corcoran, Dayton, Maple Grove, Medina, Plymouth, Rogers). While many of our projects are located in the Cities of Minneapolis and St. Paul, we are currently working with McCrossan and Michael Baker International on the I94 Unbonded Overlay Design Build Project between Maple Grove and Rogers.

The HZU team can provide specialized water resources technical expertise to work in concert with your staff to develop annual work plans based on your updated implementation actions, goals, and strategies. Our specialized team can lend expertise in developing standards and developing technology solutions for your work. We have designed more than 800 hydraulic systems over streams, along wetlands, and adjacent to lakes. We implement concepts and designs that balance both the water quality and quantity responsibilities, and understand the integration of the environmental, policy, and structural needs through application of sound engineering practice.

Please contact Hugh Zeng at 763-551-3699 with any questions and/or requests for additional information. We appreciate the opportunity to join your pool of consultants and we look forward to working with you over the next two years.

Respectfully submitted,



Hugh Zeng, P.E.
Principal Water Resources Engineer
HZ United, LLC

FIRM PROJECT AND CLIENT EXPERIENCE

The following projects highlight the HZU team's experience in water resources, roadway design, floodplain management, environmental engineering, and traffic planning and design. HZU is a pre-qualified consultant for:

- Hennepin County Department of Public Works
- Minnesota Department of Transportation
- City of Minneapolis Department of Public Works
- Ramsey County - St. Paul Dept. of Public Works

I-94 UBOL Maple Grove to Rogers Design-Build

The Project entails 9 miles of unbonded concrete overlay of the I-94 mainline and ramps between I-494 in Maple Grove and TH 101 in Rogers. The Project adds a lane in each direction between TH 610 and TH 101 and an additional lane in the eastbound direction under the TH 101 bridge, and included reconstruction of the Elm Creek rest area parking lot. The Project is located on I-94 and surrounding streets in Hennepin County in the Cities of Maple Grove, Dayton, and Rogers, MN. HZU is leading the drainage, erosion control, and vegetation design final design tasks, working with MnDOT Metro District, the Cities of Maple Grove, Dayton and Rogers, and the Contractor and their subconsultants.

Hennepin County CSAH 152 Improvements (Webber 44) in City of Minneapolis

HZU provided Drainage, Traffic Signals and Lighting Design for the CSAH 152 and Webber Parkway corridor as part of the HDR design team. Existing impervious surfaces were converted to green space where feasible, stormwater BMPs were incorporated providing additional stormwater storage and infiltration capacity, and improvements were made to the trunk line drainage system. HZU utilized the City of Minneapolis XPSWMM model to develop a proposed 1D/2D XPSWMM model which was used to evaluate design solutions to eliminate historical flooding near Webber Park. HZU facilitated multi-stakeholder coordination between SCWMC, MPRB, City of Minneapolis SWS, and Hennepin County, to review flood risk reduction options, and determine a final design solution.

Ford Parkway (CSAH 46) Drainage and Erosion Improvements for Hennepin County

Ford Parkway Bridge is a historic structure that connects Minneapolis and St. Paul over the Mississippi River. Additional drainage areas and increased flow led to slope failure and

bridge footing undermining on the west side of the riverbank. Hennepin County retained HZU as the prime consultant for preliminary engineering, permit application, final design, and construction management. The project required unconventional solutions: shotcrete for the cavity below the bridge footing, wire-mesh systems over the steep slopes, anchored slope-toe reinforcement, enclosed drainage down rain, gabion mattress below the bridge drip-line, and a gabion energy-dissipation system. The construction limits were kept above the DNR OHWL, simplifying the environmental review process.

HZU assisted the County in obtaining permits and agreements with agencies and stakeholders, including the USACE, DNR, MPCA, Ramsey County, City of Minneapolis, MPRB, MWMO, and MCWD. As the Construction Manager for the project construction phase, HZU managed product review, field alternative, park access, tree clearing, and payment application. HZU negotiated the final agreement with the Contractor.

Currie Park Phase I Improvements – Design Services for MPRB

As part of the MPRB South Service Area Master Plan, Currie Park amenities were updated to maximize inclusivity and offer year-round use. An existing wading pool was replaced with a splash pad, removal of a tennis court, and trail upgrades. Impervious area onsite was reduced and the proposed improvements redirect runoff away from impervious surfaces and existing inlet structures to promote filtration and reduce sediment discharge. HZU performed hydrologic and water quality modeling using HydroCAD and P8, a GIS land use analysis, and provided drainage design complying with the City of Minneapolis permit requirements. HZU provided construction documents including Temporary Sediment and Erosion Control Plan, SWPPP, and Storm Sewer Plan. Design team comprised Stantec, BTR, and HZU.

METRO Green (Central Corridor) Line Light Rail Transit for MCES

HZU provided drainage and utility preliminary and final design services to AECOM for the 11-mile LRT connecting downtown Minneapolis and downtown St. Paul. Extensive utility coordination and relocation was required to accommodate the



proposed LRT to maintain services for more than thirty private and public utility owners. HZU performed a detailed watershed and hydraulic analysis on the corridor and incorporated a permeable paver-infiltration tree trench system along the University Avenue storm sewer system. This was a tight corridor with existing utilities and in close proximity to building foundations, which are protected by an impervious liner on the boulevard side of the infiltration trench. The infiltration pipe doubles as the storm sewer, conveying the 10-year, 24-hr storm and also provides water to the boulevard trees. Each catch basin has a 2-foot sump for pretreatment, and each infiltration run minimizes slope to encourage leaking of water into the surrounding aggregate for storage prior to infiltration to the native soils.

METRO Blue Line (Hiawatha) Light Rail Transit Design Build – MCES

Minnesota's first light rail transit (LRT) line, the METRO Blue Line (Hiawatha Light Rail), connects residents and visitors to several major Twin Cities metro area destinations. The 12-mile line also serves 11 Minneapolis neighborhoods and Minnehaha Falls Regional Park. Granite Construction and McCrossan were hired to design and construct the light rail line. The design team was led by Parsons Transportation Group.

HZU was responsible for coordinating with rail, traction power, and structural design, preparing roadway, station site, civil utility and drainage construction documentation, including civil plans, special provisions, and environmental permit application. HZU provided additional design services during the construction stage, preparing field design change for unforeseen conditions, coordinating with local watershed districts for permit annual updates.

Hydraulic and Hydrologic XP-SWMM Modeling for Saint Anthony Park Sub Watershed for St. Paul Dept. of Public Works

HZU was tasked with developing the Capitol Region Watershed District (CRWD) XP-SWMM model for inclusion of the Bush Avenue and Desoto Street pond expansion in the City of St. Paul. Two proposed scenarios were modeled using varying infiltration rates and pond storage to evaluate the

potential to reduce rates and increase the banked volume credit. The existing pond is part of the CRWD's Trout Brook drainage system. Partnered with Elan Design Lab.

I-494: Airport to Highway 169 for MnDOT

One goal of the proposed improvements to address congestion along the corridor of I-494 from TH 169 to the Minneapolis-St. Paul Airport includes improving drainage systems to reduce localized flooding and reduce runoff into the Minnesota River. The existing MnDOT trunk storm sewer system has insufficient capacity leading to flooding under a 5-year condition. HZU was responsible for the preliminary drainage design and alternative development, conducting a frequency analysis using spatially distributed NEXRAD data and flow sensor monitoring to develop a calibrated XP-SWMM model to better estimate regional flood events with more empirical data.

Preliminary Design and Criteria Development for St. Croix River Crossing Bridge Design Build Project

The St. Croix River Crossing Project comprised a new bridge over the St. Croix River between Minnesota and Wisconsin. The new river crossing alleviates regional traffic congestion, promote social-economic growth, preserve the local historic setting, and protect the St. Croix River which is also a National Wild and Scenic River with invaluable scenic, recreational, and geologic values.

As a subconsultant to PB, HZU provided water resources engineering, environmental compliance, a roadway geometric alternative study, bridge signing preliminary design, and development of final design criteria.

Marquette Avenue and Second Avenue South Transit Project (MARQ2) – City of Minneapolis

As a subconsultant to URS and SEH, HZU provided roadway geometric design for Second Avenue between 1st Street and 12th Street for the downtown Minneapolis transit improvement project. The project created two bus lanes and two traffic lanes, wider sidewalks, new transit shelters, more trees, and more attractive landscape and streetscape.

KEY PERSONNEL QUALIFICATIONS

Team Members	Years Experience	Education	Watershed / Water Resources Planning and Management	Feasibility Studies for Water Quality Improvements	Hydrology, Hydraulic and Water Quality Modeling & Analysis	Urban Stormwater BMP Design and Construction Mgmt	Water Resource Permitting	Geographic Information Systems
Hugh Zeng, PE (MN+)	30	BSCE- Michigan Technological University, 1989 MS - Hydraulics, University of Minnesota, 1997	✓	✓	✓	✓	✓	
Principal Engineer specializing in water resources engineering, stormwater management, water quality improvement, and natural resource protection according to federal, state, and local regulatory standards for transportation and transit projects. Hugh was the Water Resources Task Manager for the Metropolitan Central Corridor Light Rail Project. He led the design effort from planning to final construction documentation and construction management of all drainage utility elements. As the drainage lead for the I-494 project, Hugh is responsible for formulating drainage alternatives and leading the initial analysis.								
Jeremy Ibberson, PE (MN)	13	BSCE – University of Minnesota, 2007	✓	✓	✓	✓	✓	✓
Senior Project Manager and Water Resources Engineer experienced in design and engineering analysis for major transit development projects involving roadway, railway, hydraulics, drainage, sanitary sewer, utility, permitting, and grading design. Proficient with MicroStation, AutoCAD, Sewer CAD, Geopak Drainage, GIS, P8 model, SignCAD, HydroCAD, HY-8, Hydraulic Toolbox, SMS and XPSWMM. Design skills include ADA Ramp Upgrade, Traffic Signal and Signage Design, construction inspection and construction management support related to drainage and erosion control.								
Mark Abrahams, PE (MN)	11	BSEE – Northern Arizona University, 2006 MS – CE, Carnegie Mellon University, 2010	✓	✓	✓	✓	✓	
Senior Engineer experienced in land and watercourse surveying, water and air quality sampling, environmental site assessment, database management, civil site development, building mechanical systems (HVAC), drainage design, turf establishment and erosion control design. Areas of academic focus include and sustainable development and technology policy, sustainable cities design, environmental remediation, green design in engineering and life cycle assessment. Engineering design expertise includes AutoCAD, Civil3D, Microstation, Geopak Drainage, Geopak Site, HydroCAD, HEC-RAS, GIS applications spatial analysis.								
Amanda Bergstrom, PE (MN), CPESC, LEED AP	17	BSGE – University of Minnesota, 2003	✓		✓	✓	✓	✓
Senior Engineer/Project Manager with expertise in hydrologic/hydraulic modeling; stormwater management planning and BMP design; transportation drainage; river and stream hydraulics; bridge scour analysis; LRT bridge and station drainage design, corridor stormwater management and BMP design; EA/EAW; SWPPP; construction observation; ArcGIS, HydroCAD, XPSWMM, HEC-RAS, HY-8, P8, SHSAM; channel capacity and stabilization; regulatory/permitting review of stormwater, erosion control/NPDES permitting, floodplain management/FEMA, and wetland protection/WCA compliance; dam removal; and shoreland/stream restoration.								
Gabe Gubash, EIT	11	BSCE – University of Minnesota, 2004	✓	✓	✓	✓	✓	✓
Senior Transportation Engineer experienced in public infrastructure and transportation improvement projects. He is specialized in Traffic, Water Resources Engineering, Project Management and Intelligent Transportation Systems. Versed in engineering modeling applications and techniques in XPSWMM, GIS, HydroCAD, traffic forecasting modeling programs, and CAD (Microstation, Geopak, AutoCAD). Served as the Project Manager and Design Lead for a MnDOT TH 47 RR crossing feasibility study for Water Quality Improvements, coordinating with the DNR on flood zones from and outlets into the Mississippi River. Lead XP-SWMM modeler for St. Paul H/H Modeling for Saint Anthony Park Subwatershed and I-494: Airport to TH 169 project frequency analysis.								
Chris Erickson, EIT	6	BSCE – University of Minnesota, 2014 BAES – Bethel University, 2011	✓		✓	✓	✓	✓
Project Manager and Senior Water Resources Engineer and with extensive design experience in Water Resources Engineering, handling large-scale modeling and plan development for high-profile Minnesota jobs. Experienced with environmental permitting, water quality modeling, and BMP design. Served as Project Manager and Design Lead for CSAH 152 Improvements, drainage design engineer and hydraulic modeler for I-494: Airport to TH 169 project.								

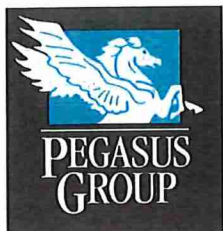
SUMMARY OF RELEVANT PROJECTS

PROJECT NAME	CLIENT / LOCATION / COORDINATION					
	Elm Creek Watershed Management Organization	Hennepin County	Cities of Dayton and Rogers	City of Maple Grove	City of Corcoran	Cities of Champlin, Plymouth, Medina
I-94 UBOL Maple Grove to Rogers Design Build	✓	✓	✓	✓		
Ford Parkway Bridge Drainage and Erosion Improvements		✓				
CSAH 152 (Webber 44) Reconstruction		✓				
Currie Park Phase I Improvements		✓				
METRO Green Line (Central Corridor) LRT		✓				
METRO Blue Line (Hiawatha) LRT		✓				
Grand Avenue Street Traffic Signal and Lighting Design		✓				
METRO D Line BRT		✓				
Final Design of I-35W Stormwater Storage Facility		✓				
10th Avenue SE River Bridge, Historic Bridge Rehabilitation Design Services		✓				
METRO C Line BRT		✓				
METRO Orange Line BRT		✓				
Drainage Design & Stormwater Treatment on I-35W from 43rd Street to I-94		✓				
Stabilize Pier 3, Bridge No. 9 Hydraulic Study		✓				
Lowry Avenue Bridge		✓				
Marquette Avenue and 2nd Avenue South Transit Project (MARQ2)		✓				
Hydraulic & Hydrologic XP-SWMM Modeling for Saint Anthony Park Sub Watershed		✓				
I-494: Airport to TH 169		✓				
TH 36 MNPASS Study						
GEC - TH 94 Design Services						
Saint Paul Storm Sewer Data Acquisition Services						
Cayuga & Maryland Avenue Bridge Replacement – Prelim. and Final Design						

2021-2022 Hourly Rates

Staff	Title/Role	Hourly Fee*
Hugh Zeng, PE	Principal Engineer	\$160/hour
Jeremy Ibberson, PE	Senior Project Manager	\$150/hour
Mark Abrahams, PE	Engineer IV/Project Manager	\$140/hour
Amanda Bergstrom, PE	Engineer IV/Project Manager	\$140/hour
Gabe Gubash, EIT	Engineer III/Senior Engineer	\$124/hour
Chris Erickson, EIT	Engineer III/Senior Engineer	\$124/hour
Kris Manthey, EIT	Engineer II/Project Engineer	\$100/hour
Marcus Lewis, EIT	Engineer II/Project Engineer	\$100/hour
Olivia Crowell, EIT	Engineer II/Project Engineer	\$100/hour
Tim DeCesare, EIT	Engineer I/Graduate Engineer	\$ 87/hour
Sarah Dillon, EIT	Engineer I/Graduate Engineer	\$ 87/hour
Shirley Halejak	CAD Technician IV	\$ 87/hour

*Billing rates subject to a 3% annual increase.



One West Water Street, Suite 280 • St. Paul, MN 55107 • (651) 292-9102 • FAX (651) 292-9107

January 5, 2021

Elm Creek Watershed Management Commission
 Attention: Doug Baines, Chair
 3235 Fernbrook Lane
 Plymouth, MN 55447

Re: Letter of Interest for Administrative, Legal and Technical Consulting Services – FY 2021 and 2022

Dear Mr. Baines,

Pegasus Group provides Owner Representative Services, managing the project planning, design, construction and post-construction processes for Owners. We are very familiar with public project delivery processes, having provided these services to the State of Minnesota and the Minnesota State Colleges and University system for twenty years.

Pegasus Group exclusively works for and represents owners and their interests in the project delivery process. This is a conscious business decision which enables us to have no inherent conflict of interest with the design or construction of a project. Simply put, we are an extension of the Owner's own resources. We focus on the Owner's goals to establish and manage the process of achieving the goals.

We do this by:

- helping the Owner define the project goals. This is done from the typical perspectives of scope, schedule and budget, but also with an eye to the short and long-term objectives of the Owner as well as from a community and political point of view.
- identifying the Owner's project delivery options and steps; assisting the Owner in determining the project delivery method best suited for each situation; identifying team members needed and their roles/responsibilities to the project team.
- ensuring the Owner understands their role and responsibility to the Project Team.
- leading RFP/selection process for project team members (Design Team, Construction Team, other Owner Consultants).
- detailing the Owner's decision-making process.
- representing the Owner. We serve as the information conduit for the Owner to members of the Project Team and outside entities as well as vice versa.
- establishing the Owner reporting requirements to support their organizational processes – budget, schedule, invoice payment, claims, change orders, etc.

We provide Owner's Representative Services through five different phases of a project:

- Conception/Initiation
- Planning/Design
- Execution/Construction
- Monitoring
- Close-out

BUILDING SUCCESS™

www.pegasusgrp.net

The members of our staff that we propose to provide Owner's Representative Services include:

1. Pamela Bader, co-founder and Principal with Pegasus Group. Pam has an extensive background in providing public sector Owner's Representative services through all phases of a project. Prior to starting Pegasus Group, Pam was the Director of Design and Construction Services at the University of Minnesota. Her knowledge and experience with public process is extensive. Earlier in her career Pam became the second female licensed Master Plumber in the State of Minnesota, as such, she brings keen construction insight to the project. Pam recently completed a Plaza Renovation project with a rain garden at Minneapolis Community and Technical College and a Plaza Renovation project at the Minnesota Zoo in Apple Valley.
2. Eric Kruse, DBIA, co-founder and Principal with Pegasus. Eric is a results-oriented professional with extensive experience in the planning and development of projects. Eric was the Owner's Representative for Quinnipiac University's development of a second campus on a two-hundred-acre site. The project required new utilities, roads and civil infrastructure, including a detention pond system with a weir dam and outflow monitoring system. There was a high level of public interest in the project from the surrounding community and neighborhoods and extensive interaction with city officials and agencies. Eric will be your main contact with Pegasus Group and coordinate our team with your service needs.
3. Roger Wolff, Owner's Representative. Roger is a Licensed Building Inspector through the State of Minnesota. Roger has significant experience with project planning, the direct oversight of construction activities and coordination of the on-site inspection/quality assurance program. He will work closely with the Project Team to monitor the project schedule and maintain the project plan. He will ensure that the Commission has current information regarding project progress, issues/concerns and pending decisions. Roger has provided Owner's Representative services on numerous Minnesota State projects. Of particular relevance was Roger's oversight of the construction of Metropolitan State University's Jason R. Carter Science Education Center where the project team coordinated with the City of St. Paul, the Capital Region Watershed District and the MPCA's Petroleum Brownfields Program on project issues including utilities and roads, storm and water runoff management and petroleum contaminated soil cleanup.
4. Pamela Handt, Business Manager: Pam will provide administrative support including project budget/fund accounting and document management assistance.

2021 Hourly Rates

Principal	\$129 per hour
Owner's Representative	\$115 per hour
Business Manager	\$65 per hours

Additionally, Pegasus Group charges for direct project expenses at cost for items such as mileage, parking, copies, delivery services, etc.

Pegasus Group is a Certified Woman Owned Business Enterprise (WBE) and Certified Small Business Enterprise (SBE) that engages in the belief that the principals of diversity, equity and inclusion strengthen and enrich the lives of everyone. We have experience championing contract and workforce goals.

Thank you for the opportunity to provide you with this Letter of Interest, we look forward to the next steps in your selection process.

Sincerely,



Eric Kruse, Principal



Resilience RESOURCES LLC

5 January 2021

Mr. Doug Baines, Chair

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

RE: Letter of Interest to Provide Technical Consulting Services, 2021-2022

Dear Mr. Baines,

Please consider Resilience Resources, LLC to provide Technical Consulting Services for the Elm Creek Watershed Management Commission in 2021 and 2022.

Company Bio:

Resilience Resources, LLC was founded by Rebecca Carlson in 2018. At Resilience Resources, we believe resilience in the natural and built environment is critical to health, well-being and prosperity for all. This belief drives our purpose: to support local, state and federal governments and private clients in cultivating resilience and managing risk through our expertise in planning, facilitation, science and engineering. We help our clients develop and achieve water, natural resource and infrastructure goals, develop partnerships and measure and communicate outcomes across stakeholders for the greater good.

*Services we provide: Water Resources Engineering | Hydrologic and Hydraulic Modeling Solutions |
Water Quality Modeling | Design and Implementation for Water Quality | TMDL /OWOP |
Watershed Planning & Facilitation | Permitting and Development Review*

Why Resilience Resources:

- As a small firm with an expertise in watershed-based organizations, Resilience Resources can provide attentive senior level expertise for a low-cost in alignment with the needs and values of the commission.
- Ms. Carlson has been a watershed engineer for 20 years. She has a depth and breadth of experience in watershed-based management, design, review and implementation that watershed-based organizations need.
- Through our work with other watershed-based organizations, we have a proven track record of authority successful grants for watershed clients, and also of measurable improvements in water quality.

Our Team:

Resilience Resources has a team of engineers and scientists to cost effectively serve the Commission:

Rebecca Carlson, P.E. (MN)**Founder, CEO**

Rebecca has provided engineering services to water and natural resources clients, focusing on watershed districts, for over almost 20 years prior to founding Resilience Resources. She brings her ***proven track record of achieving measurable water quality improvements in lakes and streams*** through design and implementation, as well as her expertise is in planning and implementation. She understands both the big picture and the engineering details. She knows that successful watershed organizations lay the groundwork for success: As the District Engineer for the Clearwater River Watershed District she secured grants to conduct the first watershed-wide TMDL studies in Minnesota after convincing the MCPA that that this was a cost-effective way to achieve water quality goals (now almost all TMDLs are considered on watershed scale based in part on the success of early projects in CRWD). After finalizing TMDLs and implementation plans, she went on to secure over \$3 million in grant dollars for implementation in the past 10 years; she has helped the District complete implementation of their 10-year plan, achieving significant and measurable water quality improvements. She designed the studies and conducted the hydrologic, hydraulic and water quality modeling. She developed each project: translating the raw data into concept plans to reach water resource goals. She authored the grants. She provided final design, construction support and effectiveness evaluations, bringing in and coordinating the critical elements of the team at each stage.

Kristine Jensen,**Senior Project Manager**

Kristine has over 20 years of experience in the field of water resource management. She was a senior project manager for the Vadnais Lakes Area Water Management Organization for 10 years prior to joining Resilience Resources in 2018. She spent 10 years at the DNR prior to that. She brings planning, data analysis, field survey and project management expertise to our team.

Dennis Johnson, P.E.**Senior Engineer**

Dennis is a practical and seasoned senior civil / agricultural engineer with over 30 years of experience. He has worked in the agricultural landscape his entire career and is sought out by name to provide engineering services for drainage and water resources issues. He brings his depth and breadth of experience with municipalities, watershed-based organizations, and agricultural land owners to our team along.

Mike Johnson, P.E.**Engineer**

Mike is a civil structural engineer with 6 years of experience and expertise in civil and water resources engineering. He brings efficient engineering and design to the team.

We are willing to negotiate a monthly retainer with you to provide the services you are currently receiving at a comparable cost to what you pay now. For services outside the retainer, the hourly rates for our team are listed below:

Name	Hourly Rate
Rebecca Carlson, P.E.	\$165
Kristine Jensen	\$115
Dennis Johnson, P.E.	\$165
Mike Johnson, P.E.	\$135
Field Tech	\$100
Drafting	\$120

Thank you for your consideration. Please don't hesitate to call me at 612-408-7515 if you have questions or require further information.

Rebecca Carlson

Rebecca Carlson, P.E. (MN)
 Founder
 Resilience Resources, LLC

Encl.



Resilience
RESOURCES LLC

Rebecca Carlson, PE (MN)

Founder

Areas of Expertise:

Watershed Engineering
Water Quality Data Analysis & Modeling
Hydrologic & Hydraulic Modeling (XP & EPA-SWMM,
Hydrocad, HEC-RAS, HEC- HMS)
Lake and Stream Restoration
Rules Development & Permit Review
TMDL Study Design and Implementation
Groundwater Modeling (MLEAM),
Groundwater/ Surface Water Interaction
Comprehensive Natural Resource Planning

Education:

BS, Geologic Engineering with environmental emphasis;
minor in Geology
PSMJ, Project Manager Boot Camp Training &
Regular Refreshers
ArcView GIS Training
XP-SWMM Hydrologic and Hydraulic Model Training
Analytic Element Groundwater Modeling (MLEAM) Trainin
Dale Carnegie Course, Wenck Public
Speakers Training

Professional Experience:

2018- Present
Resilience Resources, LLC
Founder

2000-2018
Wenck Associates, Inc.
Principal

1998 - 2000
Leggette, Brashears & Graham, Inc.
Environmental Engineer

1997 - 1998
Delta Environmental, Inc.
Environmental Engineer Intern

1995 - 1997
University of Minnesota
Undergraduate Teaching Assistant
Lab Assistant

1993 - 1994
Bay West
Intern

Rebecca Carlson, P.E. (MN) Ms. Carlson has provided water resources engineering services to public and private clients for almost 20 years. She brings her ***proven track record of achieving measurable water quality improvements in lakes and streams*** through design and implementation, as well as her expertise is in planning and implementation.

Rebecca is an experienced hydrologic, hydraulic and water quality modeler, having completed 29 EPA approved TMDLs herself- more than most companies as a whole. Her other areas of expertise include groundwater modeling and hydrogeology. She volunteers her time to develop and participate in public education programs about water resource protection.

Selected Experience

Mississippi River Bluff Stabilization, Coon Rapids, MN Ms. Carlson designed a stabilization project for a 30-foot-high bluff along the Mississippi River in Coon Rapids. The bluff was eroding due to an ill placed storm sewer outlet. The erosion was undercutting the bank on a college campus and was a safety threat to students and nearby structures. Ms. Carlson coordinated difficult construction conditions due to the steep slopes, as well as the regulatory and stakeholder approvals needed. The outcome was a stable bank with access to the shoreland which serves as an outdoor classroom for students.

Minnehaha Creek Bank stabilization, Edina, MN The City of Edina sought out Ms. Carlson to design a bank stabilization for an area in the Mill Pond on Minnehaha Creek adjacent to a roadway. She diagnosed the driver of the erosion: periodic inundation of poor soils causing erosion at the toe of the bank. The design solution needed to meet aesthetic demands of the residents, the infrastructure needs of the City, and the permitting needs of the TEP, the USACE and the local watershed district. Stakeholders with diverse and sometimes competing desires for the project posed a challenge, but the result was protection of Mill Pond and the creek, protection of the infrastructure and roadway, as well as meeting the aesthetic needs of the citizens while still being permitted and constructed.

Lake Augusta Ravine Stabilization, South Haven, MN Ms. Carlson repaired a severely eroded ravine in Annandale, MN. High groundwater saturated the soils in the ravine making the soils unstable, and the construction difficult. That, coupled

Rebecca Carlson

with surface runoff into the ravine was causing severe erosion, threatening a nearby road and delivering excess sediment to a downstream lake. The outcome was a stabilized ravine, reduced erosion, and protection of nearby infrastructure.

Clearwater River Watershed District, Upper Watershed Study, Project Identification and Prioritization. Ms. Carlson and her team conducted a map review, and watershed modeling/ analysis to identify areas on the landscape ideal for project implementation. Nutrient load reductions and cost estimates were then prepared for each project, and the projects were prioritized. This manual/ list of projects has been used by the District to implement projects and authorize cost share to reduce sediment and nutrient loading throughout the upper watershed.

Clearwater River and Kingston Wetland Dissolved Oxygen Restoration, Kingston, Minnesota. Ms. Carlson designed a restoration of the Clearwater River and the adjacent 500-acre wetland in Kingston, Minnesota. The wetland complex was exporting soluble phosphorus do downstream lakes, and depleting oxygen in the Clearwater River due to historical agricultural loads. The restoration of the channel geomorphology maintained and enhanced the wetland's habitat while reducing both oxygen demand and soluble phosphorus export downstream and maintained drainage benefits. The downstream river IBI score improved dramatically post restoration. Multiple years of monitoring results show greatly improved dissolved oxygen concentrations in that section of the Clearwater River compared with pre-project concentrations, as well as reductions in soluble phosphorus downstream.

Iron Enhanced Sand Filter Outlet located within a DNR WMA, Annandale MN. When water quality data showed that a wetland complex within a DNR WMA was exporting soluble phosphorus leading to lake impairments downstream, Ms. Carlson coordinated with DNR, USACE and other regulatory stakeholders to cultivate consensus around an outlet structure which included an iron enhanced sand filter. She conducted hydrologic, hydraulic and water quality modeling to support design. She designed and permitted the project and supported construction activity and post project monitoring and evaluation. The project balanced the natural resources protection needs for the WMA, the downstream water quality needs, as well as the regulatory drainage requirements.

School Section Lake Outlet Modifications. Ms. Carlson supported the repair and retrofit of a landlocked lake outlet to withstand ice damage and also balance operational needs to protect a trout stream receiving water. Rebecca modeled outlet hydraulics and runoff hydrology, evaluated groundwater in the area, prepared the design plans, supported construction, and coordinated with the DNR and other stakeholders on permitting. The project was constructed in 2018 and withstood a heavy ice heave year. She developed and implemented a telemetry monitoring program to align with the DNR operational requirements and support outlet operation that is protective of the trout stream while providing valuable data for a future trout stream restoration.

Shell Rock River Watershed District. Ms. Carlson prepared hydrologic and hydraulic models of the District using HEC-RAS and HEC-HMS to design a new outlet for Albert Lea Lake which drains an agricultural watershed. Ms. Carlson also designed the Shell Rock River Watershed Districts adaptive water quality-monitoring program. She analyzes data and models water quality in District lakes annually to identify opportunities for water quality, ecological, and hydrologic improvements for the District. Data is used to set management goals, design water quality improvement projects and direct CIP dollars efficiently for this newly formed watershed district.

Stormwater Capture and Reuse, Kimball, Minnesota. Ms. Carlson prepared the grant application to secure state funding to design and implement a stormwater capture and re-use facility in the City of Kimball. This small town in central Minnesota is surrounded by agriculture. The city's stormwater drained, untreated, into a trout stream and a chain of nutrient impaired lakes. The resulting project provides a source of irrigation water for an existing highly used baseball field while mitigating drainage and erosion issues in the park. Ms. Carlson went on to author an additional grant to implement Phase II of the project to provide further stormwater BMP retrofits for the City of Kimball to enhance the impact of the first project phase.

Targeted Fertilizer Application Project, Watkins, Minnesota. Ms. Carlson assisted the Clearwater River Watershed District in developing a program through which cost share is provided to farmers to conduct gridded test soils and variable rate fertilizer application. Rebecca authored the grant for the project and assisted in the coordination of the project. Local co-ops market the program with their existing clients to reduce administrative burden on the watershed district, and then provide the data back to the district for analysis. The project won the Environmental Initiative Award in 2014, and Minnesota Association of Watershed District Project of the Year in 2015.

Stearns County Ditches 15, 25, 51, and 11, Freeport, Minnesota. Ms. Carlson assisted the Drainage authority under Minnesota State Statute 103E through repair proceedings on these ditches. Work included field surveys to determine the ACSIC elevation, preparation of Engineers Reports, extensive work with regulators including the Minnesota DNR, USACE, and WCA authorities, coordination with residents, and construction support.

Rebecca Carlson

Sauk River Watershed District Comprehensive Plan, Sauk Centre, Minnesota. Ms. Carlson managed the Sauk River Watershed District comprehensive plan update. Through the planning process, Ms. Carlson helped the staff navigate through a stakeholder intensive process which identified obstacles and presented solutions. The plan lays out a management unit strategy to achieve water quality goals for lakes and streams within the 1,041 square mile agricultural watershed district in central Minnesota.

Clearwater River Watershed District Comprehensive Plan, Annandale Minnesota. Ms. Carlson managed the Clearwater River Watershed District comprehensive plan update. Following completion of its TMDL studies, the District undertook an early, proactive update to its comprehensive plan. The plan guides the District through policy associated with achieving lake and stream water quality goals in the 160 square mile agricultural watershed district in central Minnesota.

Chain of Lakes Improvement Project, Central Minnesota. Ms. Carlson has worked with watershed district staff and residents to isolate the cause of declining water quality in Cedar Lake near Annandale, Minnesota, and formulate a solution. Rebecca modeled water quality in each of the chain of lakes, and designed a suite of BMPs and innovative solutions to restore the ecological habitat of upstream shallow lakes, while protecting the water quality of the downstream water body. The project entailed extensive stakeholder involvement and coordination. The project is ongoing.

Clearwater River Watershed District-Wide TMDL Study. Ms. Carlson is the project manager for the ongoing Clearwater River Watershed District TMDL studies. For that study, Rebecca secured a series of grants for the CRWD to conduct TMDL studies of 14 impairments within the District including three on the Clearwater River and 11 lakes. Rebecca evaluated existing data, prepared the monitoring work plans and implemented monitoring. The project maximizes use of existing data and uses innovative modeling methods to minimize costs. Phase III of the project includes lake and in-stream water quality modeling and setting the TMDL. Ms. Carlson works closely with the Watershed District Administrator, Board of Managers, and MPCA staff to facilitate public meetings and coordinate the project. This project is ongoing.

Long Prairie River TMDL. Through this Clean Water Act study of the Long Prairie River, Wenck assessed the causes, spatial and temporal extent, and severity of dissolved oxygen depletion in the River. The Long Prairie watershed is host to predominantly agricultural land use, as well as some waste water point sources. Ms. Carlson analyzed existing data and identified additional data needs. Rebecca helped to develop a work plan for additional data collection and water quality modeling. She managed Phase II of the Long Prairie River TMDL study, the state's first DO TMDL. She coordinated a project team of local and state governments and implemented a monitoring program to meet data needs for future project phases. The intensive synoptic field studies included a time-of-travel dye study, continuous dissolved oxygen monitoring on the Long Prairie River.

Trout Hatchery, Southern MN. Ms. Carlson modeled hatchery discharge temperatures and recommended hatchery management strategies to protect a trout stream in an agricultural area and prevent pathogens from entering the hatchery.

Other MPCA TMDL Studies. Ms. Carlson is the project manager and senior technical staff for several other TMDL studies including:

- Elk River Watershed Management Organization TMDL studies (two lake nutrient impairments, one bacterium and two turbidity impairment, and three Dissolved oxygen impairments).
- Jessie Lake Nutrient Impairment
- Vadnais Area Lake TMDL for five lake nutrient impairments and Lambert Creek bacteria impairment

Prior Lake Spring Lake Watershed District. In addition to providing technical review of development permit applications for the District, reviewing rules, and drafting new rules, Ms. Carlson completed a study to compare cost and effectiveness of traditional stormwater management designs, high-intensity Low Impact Development (LID), and practical LID Best Management Practices (BMPs) to reduce runoff volumes and pollutant loadings. The findings were used to draft model stormwater management rules to apply to LID, volume management BMPs and nontraditional development and to craft incentive programs that encourage cities and developers to incorporate these techniques into their projects.

Ms. Carlson also uses the District's XP-SWMM models in ongoing design efforts to support the District's Outlet Channel Restoration Project, and also to guide the District's efforts to control runoff volume by evaluating the effect of proposed rules and volume mitigation strategies.

Rebecca Carlson

East Bethel Water Reclamation. Ms. Carlson prepared the conceptual design of groundwater infiltration galleries for the City of East Bethel, MN to infiltrate reclaimed water. The system is designed with a future vision of providing the reclaimed water to end users to conserve the states water resources and avoid simply discharging wastewater into receiving waters.

Minnehaha Creek Watershed District. Through adaptive management of the Minnehaha Creek Watershed District's on-going annual water quality and quantity monitoring program, Ms. Carlson helped the Board of Managers, District staff and residents visualize water quality and hydrologic data to aide in decision-making and design of capital improvements, public outreach and education, and policy making. She also:

- Coordinated the efforts of eight state and local government agencies and a team of Wenck field staff to collect more than 3,000 water quality samples annually
- Designed and managed the MCWD's database, including management of continuously collected data
- Analyzed water quality trends and pollutant loading for lakes and streams
- Modeled water quality
- Compiled data and analysis into annual Hydrologic Data reports for presentation to District staff, Board of Managers, and the public

Other Minnehaha Creek Watershed District Projects

Lake Minnetonka Model. Coordination and oversight of water balance, and water quality Model of Lake Minnetonka

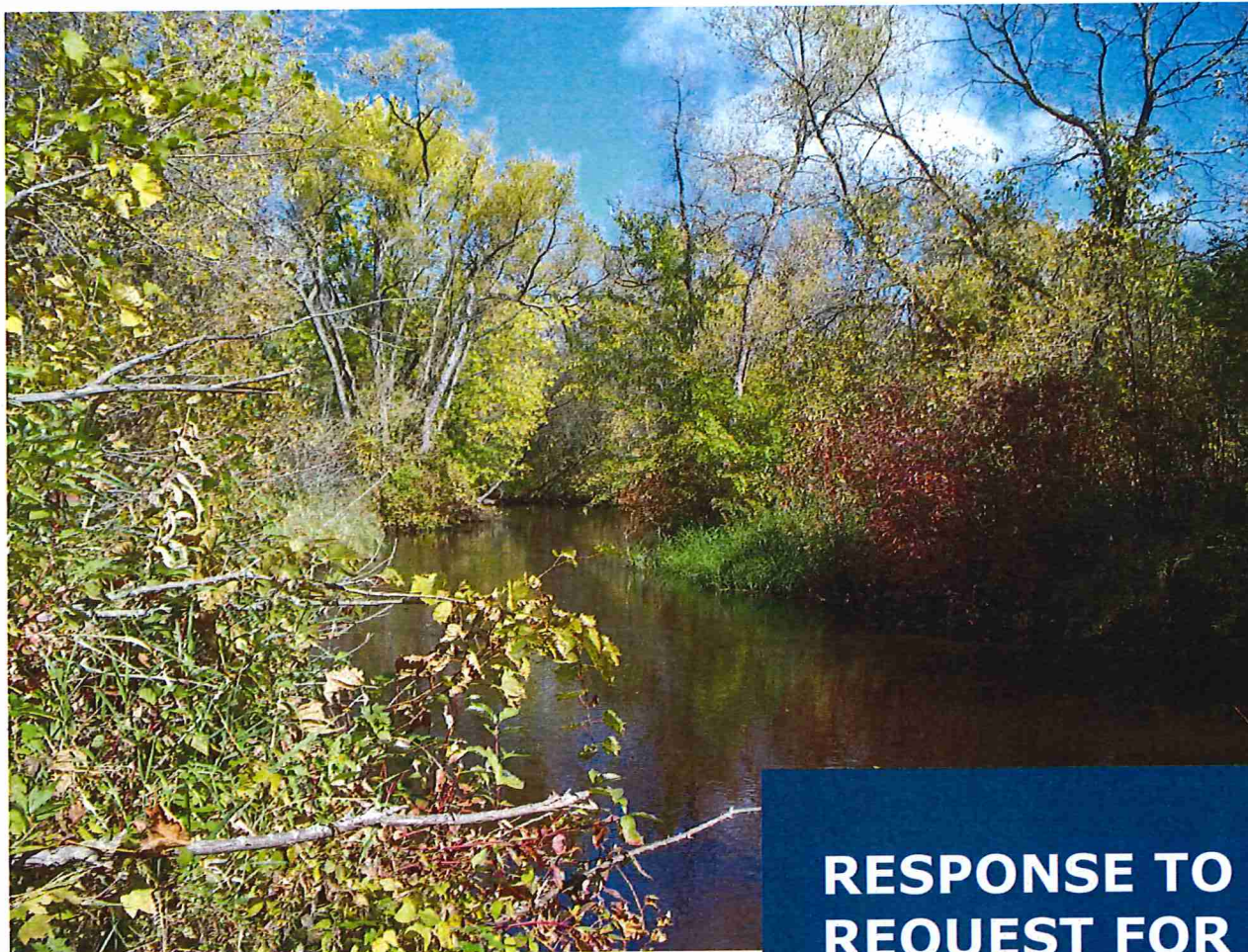
Pathogen Study. Ms. Carlson analyzed the District's existing bacteria data, and prepared a technical memorandum with recommendations that were the scientific basis for the District's Pathogen policy.

Camp Coldwater Spring. Ms. Carlson analyzed hydrologic data including ground-water surface water interaction for the Camp Coldwater Spring case. She coordinated and prepared a technical memorandum presenting findings on Camp Coldwater. Conclusions from this technical memorandum helped the District win legal proceedings.

Aquatic Macrophytes. Ms. Carlson provided the District with technical information on Eurasian water milfoil nutrient cycling in lakes that helped the MCWD allocate funding and set policies on Eurasian water milfoil harvesting programs.

Public Relations, Public Education, Stakeholder Involvement and Facilitation

- Facilitated stakeholder involvement and conducted public meetings for the Clearwater River Watershed District TMDL Study and Cedar Chain of Lakes Improvement
- Close coordination with MCWD Education Coordinator and PR firm to produce press releases, and educational materials to promote water resource education
- Developed Communications Plan for Vadnais Lakes Area WMO



RESPONSE TO REQUEST FOR PROPOSAL

Professional
Services for Legal,
Engineering and
Technical, and
Administrative
Consulting



now part of



January 5, 2021

Prepared for:

Mr. Doug Baines, Chair
Elm Creek Watershed
Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447



now part of



January 5, 2021

Mr. Doug Baines, Chair

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

Dear Mr. Baines:

Wenck is pleased to submit our qualifications to assist the Elm Creek Watershed Management Organization (ECWMO) with professional watershed and water resource engineering/ professional/ technical services. We are committed to providing ECWMO with the highest level of quality and service, helping you achieve your Management Plan objectives and serve the communities within the watershed.

We understand that your primary need is assistance with evaluating site designs for development proposals within the watershed for compliance with your Watershed Management Plan. You also desire to have technical representation at your regular and TAC meetings. You also may have the occasional need for technical assistance in the preparation of your Capital Improvements Program (CIP), hydrologic and hydraulic modeling, grant writing, etc.

We have assembled an exciting team that bring significant experience and knowledge to your table. Our team is led by Ross Mullen, PE, CFM, who will bring his deep experience in watershed and municipal engineering to your service. He will be assisted by Rena Weis EIT and Brady Schmitz, both of whom have considerable experience with project/permit reviews. Wenck also has a deep bench of water resources scientists and engineers, biologists and ecologists, and landscape architects to provide a full suite of services should you have need. Of particular note are Ed Matthiesen, PE, who will provide senior technical oversight, and Diane Spector and Jeff Strom, who can assist with water quality and TMDL implementation.

Wenck and Stantec serve as City Engineer for some cities in the watershed. To avoid conflicts of interest we will not review submitted projects prepared by our own team or where there is otherwise a conflict. We have ongoing relationships with other engineering firms to provide third-party review where necessary.

The enclosed Statement of Qualifications provides an overview of our experience and expertise. We can provide the following unique qualifications to the ECWMO:

Knowledge of Watershed - Wenck has worked with the ECWMO to prepare your Third Generation Watershed Management Plan and with Three Rivers Park District to prepare your TMDLs and WRAPS. We know your watershed. We have also worked with cities in the ECWMO to complete improvement projects, including stream restorations on Elm Creek.

Water Quality Emphasis - Wenck is deeply involved in protecting and improving water resources not only in Minnesota, but nationally. We have completed more TMDLs than any other consultant in Minnesota. More importantly, we have continued to work with our clients as they implement those plans and have helped our clients achieve lake and stream Impaired Waters delistings.

Doug Baines, Chair
Elm Creek Watershed
Management Commission
January 5, 2021



Highly Collaborative Partnership - Our style is highly collaborative – we serve as *your* staff. Effectively communicating with our clients is an essential component of our approach. While we have identified a core team of people to serve you, any one of our nearly 300 team members are available based on your needs. More information about our team is in the attached Statement of Qualifications.

Wenck is committed to providing the ECWMC with outstanding service. You have been a valued client for us and we are committed to assuring that the water resources and stormwater management projects are delivered as planned and yield results in a cost-effective, efficient, and responsive manner.


As you review our proposal, please note that effective January 1, 2021, Wenck has joined Stantec, a community that unites approximately 22,000 employees working in more than 350 locations across 6 continents. Stantec is designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

Our relationship with you is our number one priority. You will see the same people, doing business with you with the same goal: to deliver great design with the highest level of service. Our complementary capabilities, market presence, and cultures will create the opportunity to provide more clients with a broader range of services, worldwide. We are excited to become part of a company that cares about creating communities as much as we do.

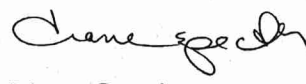
Enclosed are the qualifications of our proposed project team, and information about the types of services we provide. We certainly appreciate the opportunity to respond, as well as the opportunity of working for the SCWMC over the last 30 years. Please feel free to contact Diane Spector at (763) 252-6880 or our Water Resource Group Manager Chris Meehan at (763) 252-6844 if you or the Commissioners have questions or require additional information.

Sincerely,

Wenck, a Stantec Company



Ross Mullen, P.E.
Principal Watershed Engineer



Diane Spector
Senior Water Resources Planner

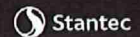
ABOUT US

On January 1, 2021, Wenck joined Stantec, a community of designers, scientists, engineers, and planners who collaborate across disciplines and markets to develop innovative solutions. Together we will work to advance the quality of life in your community and across the globe.

Client relationships have always been our number one priority at Wenck. That will not change as we join Stantec. We understand the ECWMO's mission and strive to be not only a responsive partner but a strategic advisor. While the name of our business will change, you will continue to see the same people delivering your projects. As always, our goal remains to deliver exceptional outcomes on all your projects and constantly exceed your expectations.

Together, Stantec and Wenck will work to deliver innovation and continuous improvement for the long-term. This means bringing you specialized expertise at a price that maintains your competitive advantage. And it means creative and custom solutions that will provide efficient, reliable, and flexible services.

Together, we can do great things.



We're excited to become part of a company that cares about creating communities as much as we do. Through this merger, our local team and reputation for quality watershed management services will remain.

We are a united team of engineers, scientists, and construction professionals prepared to deliver integrated watershed management services. We are known and trusted for our technical excellence, and our experienced team can help manage every aspect of your most complex projects. Working jointly with all stakeholders, we are your responsive partner committed to producing exceptional outcomes for your organization.

WATER IS IN OUR DNA

Our water team members have dedicated their careers to watershed/ natural resource engineering and science for watershed district clients locally and nationally. We bring our experience from all over North America to produce better outcomes for you. Our watershed clients include agricultural watersheds in greater Minnesota, Metro-area urban watersheds, and a watershed in the Boundary Waters Canoe Area Wilderness. Wenck's focus on exceptional outcomes has led to our work being nationally recognized for innovation and value by our peers.



Our focus is to foster strong relationships and develop technical solutions which achieve outcomes that lead to further success in our communities. Through a partnership approach to planning and implementation, our clients see success on the landscape and in their communities. Through this lens, our team has implemented thousands of programs and projects throughout the nation.

We help build healthy, resilient legacies. Not only does the team we have assembled understand watershed management and facilitation, but we also have on-the-ground experience with BMP planning/design, floodplain management, riparian buffers and drainage, stream restoration, lake and wetland management, wastewater management, forest management, groundwater modeling, water supply studies, and subsurface investigations. We have worked with and for local units of government and watershed management organizations around the state and understand their programmatic, organizational and governmental processes.

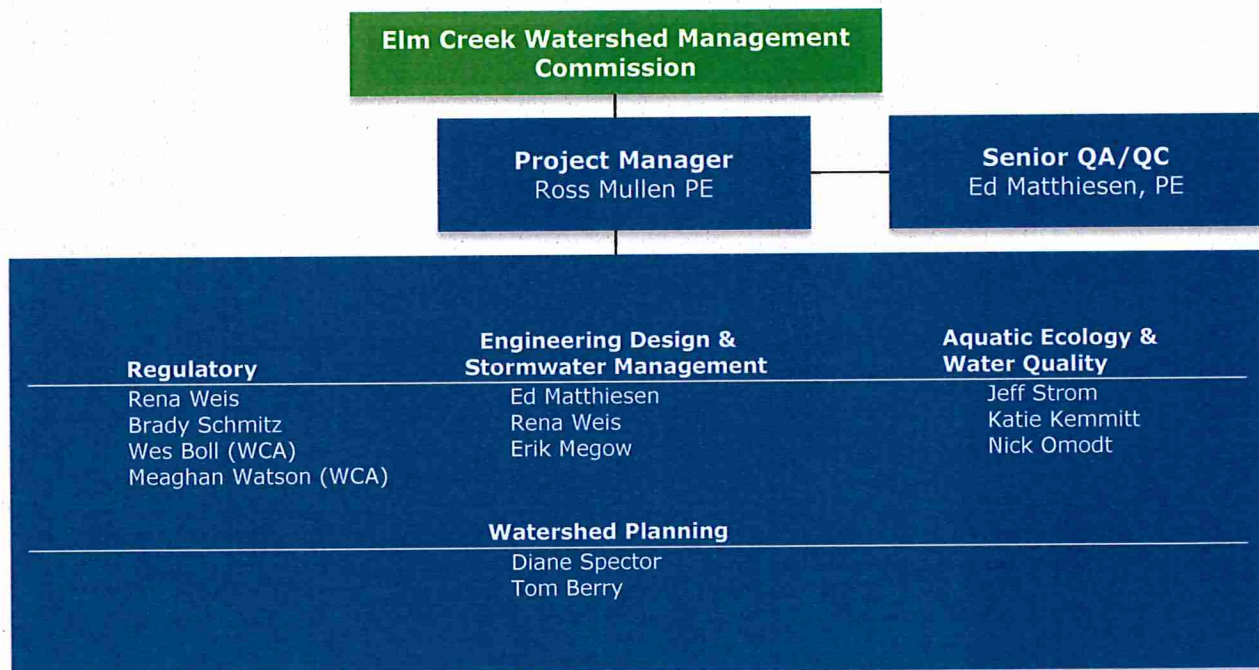
The main point of contact for our team is Ross Mullen.
Mr. Mullen works in the Golden Valley office.

Ross Mullen, PE (MN), CFM
Project Manager
7500 Olson Memorial Hwy Suite 300
Golden Valley, MN 55427
Email: rmullen@wenck.cocm
Phone: 320-390-3473

OUR WATER WHY – Our purpose is to help protect the most important natural resource the world has: its water. Our mission is to collaborate with our clients to protect and improve water quality and availability.

WENCK PROJECT TEAM

The Wenck project team for ECWMC is detailed below. We expect most services to be provided by these staff. However, we have over 60 local water resources staff ready to support you. Primary staff will include Ross Mullen, Ed Matthiesen, Rena Weis, Brady Schmitz, Diane Spector and Jeff Strom. Ross will be your main point of contact and attend your meetings, but you may contact any Wenck staff at any time to ask questions or request other staff's presence at your meetings.



Ross Mullen, PE (MN), CFM Project Manager

- 9 years of experience on water resources projects
- Bachelor's in Civil Engineering
- Specialties include, hydrologic and hydraulic modeling, data analysis, floodplain analysis, LOMRs, and development project reviews, design of hydraulic infrastructure.
- Completed project reviews for the Basset Creek WMO for six years
- His career is focused on protecting people and property from flooding and improving the quality of stormwater runoff.



WENCK PROJECT TEAM (CONT.)

Ed Matthiesen

- Principal Water Resources Engineer**
- 30+ years of experience on water resources and engineering projects.
- District Engineer for three Twin Cities area watershed districts and four Joint Powers Associations.
- Master's in Civil Engineering
- Specialties include engineering design, channel restorations, feasibility studies, review of proposed developments.



Rena Weis, EIT

- Water Resource Engineer**
- 3 years of experience on water resources projects.
- Master's in Civil Engineering
- Specialties include hydrologic and hydraulic modeling, data analysis, construction oversight, and Phase I Environmental Permitting.



Brady Schmitz

- Water Resource Engineer**
- 3 years of experience on water resources projects.
- Bachelor's in Agricultural and Biosystems
- Specialties include hydrologic and hydraulic modeling, watershed permitting, ditch stabilization, construction oversight, and BMP assessment.



Wes Boli, CWD

- Wetland Scientist**
- 19 years of experience providing wetland management, biological inventories, and surface water quality monitoring.
- Bachelor's in Environmental Studies with Biology Emphasis
- Specialties include wetland delineation and functions and values assessments, wetland mitigation planning, and WCA enforcement.



Meaghan Watson Dietrich

- Environmental Scientist**
- 8 years of experience providing environmental permitting and compliance.
- Bachelor's in Environmental Science
- Specialties include wetland delineations, WCA enforcement, and Environmental Site Assessments.



Erik Megow PE

- Project Engineer**
- 8 years of experience on projects including H & H modeling and BMP design and construction oversight
- Bachelor's in Mechanical Engineering, Physics
- Specialties include hydrologic and hydraulic modeling, watershed permitting, and stormwater design.



Diane Spector

- Senior Water Resources Planner**
- 20+ years of experience in project planning and management.
- Master's in Environmental Science and Policy
- Specialties include watershed and local water management plans, stream assessments, stream stressor ID studies, total maximum daily load (TMDL) studies, educational program development, and public participation planning.



Katie Kemmitt

- Water Resource Scientist**
- 5 years of experience in BMP monitoring and assessment.
- Master's in biology.
- Specialties include lake management, BMP assessment, and synthesizing and communicating data.



Tom Berry

- Senior Planner**
- 20+ years of experience in project planning, development, and management in both the public and private sectors.
- Master's in Community and Regional Planning
- Specialties include public process, program administration, hazard mitigation planning, and floodplain management



Nick Omody

- Environmental Scientist**
- 2 years of experience focusing on wildlife monitoring and surveys, both terrestrial and aquatic invasive species management, water quality monitoring and lab analysis.
- Bachelor's in Environmental Science
- Specialties include wildlife surveys, endangered species background permitting, wetland and waterbody delineations, tree surveys, fisheries surveys, water quality monitoring, and aquatic plant surveys.



WENCK QUALIFICATIONS

Wenck and Stantec are full-service engineering and environmental firms. We've highlighted some of our relevant strengths below to illustrate our breadth of experience.

1. Experience with watershed management organizations within the metropolitan area.

Wenck routinely works for many Minnesota watershed districts and organizations, and our water team has worked with nearly all the WMOs in the Metro area in some capacity. More specifically, members of the Wenck team regularly work for:

- Coon Creek WD (general engineering, permit reviews, capital projects);
- Shingle Creek and West Mississippi WMOs (general engineering, project reviews, lake and stream monitoring, capital projects)
- Capitol Region WD (rule writing & revisions, permit reviews, capital projects);
- Minnehaha Creek WD (rule revisions, capital projects, water quality & quantity modeling); and
- Vermillion River WMO (water quality & quantity modeling).



Permitting & Project Review. Wenck has developed a strong reputation with Minnesota watershed organizations for our ability to effectively develop, implement, and oversee water resource permitting and project review programs. Wenck understands the importance of effective regulatory programs, which is why we emphasize timely response to applicants, develop innovative solutions, and effectively communicate with applicants to meet Watershed goals.

We understand the harmony needed to blend economic development and livable communities with protecting natural resources. The Wenck team reviews several hundred developments annually for watershed clients. We understand how municipalities and government entities interact with agencies like watershed management organizations.

While "protecting the resource" is of utmost importance, we are keenly aware of the cost of permit programs and review timeframes. Despite increases in staff billing rates, we have worked more efficiently and refined our review process to keep review costs low. Most of our watershed clients expect reviews to be returned within seven days. We strive for a four-day review period. We do not want Wenck or our client to be the reason a project is delayed!

WCA Administration. Wenck has assisted a number of cities and watersheds with the administration and enforcement of the Wetland Conservation Act (WCA). Wenck works with the MN Board of Water and Soil Resources (BWSR) to administer WCA rules and distribute the necessary Notices for projects in and adjacent to wetlands in each unit of government. Wenck reviews wetland delineations to ensure that they are conducted accurately according to the 1987 Army Corps of Engineers Manual and Regional Supplements. Wenck participates in pre-application discussions to assist applicants with the interpretation of WCA and other wetland regulations. Wenck also coordinates Technical Evaluation Panel (TEP) meetings to facilitate the review and approval of applications.

Watershed and Local Water Management Planning. Wenck has completed over 75 Watershed and Local Water Management Plans in Minnesota, including multiple generations of plans for some clients. Clients have ranged from agricultural watersheds in greater Minnesota, Metro-area urban watersheds, and a watershed in the Boundary Waters Canoe Area Wilderness. We have also completed several Watershed Restoration and Protection Strategy (WRAPS) reports, integrating TMDL results with more detailed protection and restoration implementation plans.

Within the Metro area, we have within the last several years completed watershed and local plans for:

- Minnehaha Creek Watershed District
- Coon Creek Watershed District
- Shingle Creek and West Mississippi WMOs
- Elm Creek WMO
- Pioneer-Sarah Creek WMO
- Eagan-Inver Grove Heights WMO
- Eden Prairie
- Chanhassen
- Inver Grove Heights
- Eagan
- Dayton
- Corcoran

Additionally, Wenck staff has compiled natural resource inventories using state-of-the-art techniques including Indexes of Biological Integrity (IBI's), GIS and MnRAM. Recent examples include natural resource plans for Burnsville, Hanover, Cloquet, Eden Prairie, and St. Cloud, and the Minnehaha Creek Watershed District's innovative Ecosystem Evaluation Program (E-Grade), which formed the backbone of the District's most recent watershed management plan.

Water Quantity & Quality Computer Modeling. Wenck views models as tools to help solve problems and we believe that the bigger the toolbox the better the solution. Our approach to modeling is that there isn't one solution, but there is a right solution for your problem. This is why our team continually looks for improvements to traditional modeling methods, which can help drive better decision-making.

One example of our modeling experience is our use of a 2D PCSWMM model showing the flood mitigation benefit of two underground infiltration systems in the City of Crystal – the Becker Park and Kentucky avenue systems. This model used a GIS overlay to show the potential decrease in extent and depth of flooding.

Communication. Wenck staff have extensive experience communicating effectively with stakeholders at all levels. The Wenck team is acquainted with key agency staff and works regularly with local, state, USACOE, and other agencies to ensure that engineering and permitting solutions meet regulatory requirements.

Effective communication with the public is a must when considering options for protecting and improving water and natural resources that may be literally right outside their back door. We have facilitated public meetings, worked one-on-one with property owners, met with school children, and provided web-based and social media communications. Our work as watershed engineers for several watershed districts as well as our project and permit review work with a variety of watershed, city, and county clients have us regularly communicating with staff, Managers, and attorneys. We are well acquainted with the monthly dash to get agenda items done and assembled into the meeting packet and have considerable experience preparing Board memos, agreements, and other reports.

2. Lake, wetland, and stream restoration and management experience.

The Wenck team has extensive experience in protection and restoration of lakes, wetlands and streams, with a special emphasis on shallow lakes management. Our experience ranges from completing diagnostic studies and TMDLs to routine and special monitoring to designing and permitting improvements and providing construction oversight.

Lake Study, Restoration and Management

Our team thoroughly understands the study and diagnosis of lakes in urban environments, and it excels in recommending appropriate and cost-effective rehabilitation methods to meet stakeholder interests. After analyzing data and completing the final report, many of our clients select Wenck to engineer corrective actions that were recommended in the final report.

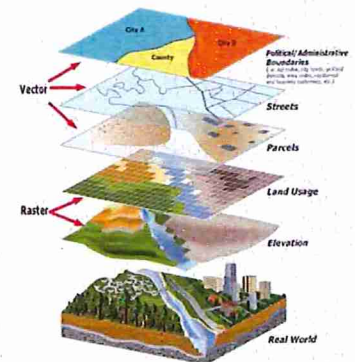
Over the past ten years, Wenck has become the go-to consulting firm for shallow lake studies in Minnesota. Our project team has studied more than 50 shallow lakes from Detroit Lakes to Rochester ranging from protection plans to aggressive improvement plans.



Wenck has worked with the City of Dayton and Three Rivers Park District on an ongoing study of Diamond Lake, evaluating the feasibility of various options to address its nutrient impairment. Our team has also completed an internal load feasibility assessment for the Weaver Lake Conservation Association. We've also completed a subwatershed assessment for the Rush Creek Headwaters that included identifying options to improve Jubert Lake and Lake Henry.

City of Eagan Lakes. We completed TMDLs or diagnostic studies and modeling to develop 14 management plans for priority lakes in the City of Eagan. Through Bathtub and XP-SWMM modelling, we were able to develop a systematic Capital Improvement Plan to guide the City for the next 10 years in a comprehensive plan to improve or protect water quality and biological health, while significantly reducing implementation costs and permitting hurdles by taking a forward-looking approach.

Since development of that plan, we have been implementing practices to achieve goals outlined in the plan. To date, Wenck has assisted the City with construction of three iron-enhanced sand filters, an underground infiltration trench, and a manufactured treatment device.



Como Lake. Two other recent examples include two plans written for Como Lake in St. Paul on behalf of the Capitol Region WD: the Como Lake Aquatic Vegetation Management Plan and the Como Lake Fisheries Management Plan. The goal of the vegetation plan is to establish an adaptive management approach for restoring and enhancing the aquatic vegetation community in Como Lake. The Plan includes tools to manage to multiple potential outcomes.



The goal of the Fishery Management Plan is to manage the lake's resident fish community to complement water quality improvement and vegetation initiatives while enhancing Como Lake's value as an urban recreational fishery. It employs a systematic plan to manage Como Lake and over time shift the lake to a largemouth bass fishery.

Wetland Study, Restoration and Management

Wenck has Professional Soil Scientists, Professional Wetland Scientists and Minnesota Certified Wetland Delineators with over 25 years of combined expertise in wetland delineation, mitigation designs, and permit applications through the Minnesota Wetland Conservation Act and Section 404 of the Clean Water Act. Wenck staff has:

- Delineated thousands of acres of wetland;
- Completed 30+ Wetland mitigation/restoration designs;
- Completed 50+ Wetland Conservation Act and Section 404 Clean Water Act Permit Applications; and
- Provided cost effective strategies for mitigation.

Some of the wetland services we routinely provide our clients include: wetland delineation, wetland mitigation design, wetland permitting, wetland monitoring, wetland functional assessments—MNRAM, GPS mapping to 0.5m, natural resource assessments—MLCCS, comprehensive wetland management plans, FSA wetland WETS analysis, aerial photo interpretation, GIS analysis, hydric soil delineation, regulatory negotiation, and CADD drafting.

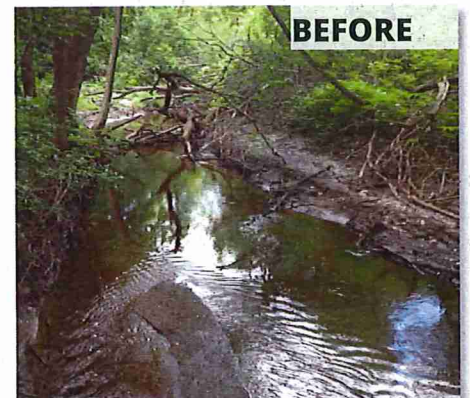
Stream Study, Restoration and Management

Our team thoroughly understands the study and diagnosis of stream water quality and biotic impairments, incised gullies and eroded stream banks, and excels in recommending appropriate and cost-effective rehabilitation methods to meet stakeholder interests and TMDL requirements. Highlights of our bank stabilization experience are presented below.

Elm Creek. Elm Creek behind the Wayzata High School in Plymouth is used by the high school for education with biology class, physical education (high ropes course) and cross country running and skiing sports. Elm Creek is also listed as impaired with a TMDL requiring reductions in phosphorous and total suspended solids and increases in dissolved oxygen. This project started as a feasibility study to see what projects could be done with approximately 5,000 lineal feet of Elm Creek and additional water quality improvements to satisfy the TMDL requirements.

Part of the stabilization strategy was to work with the school and City parks department to establish and program a greenway along Elm Creek, including cross country trails, tree clearing, buffer re-establishment and protection of priority maple-basswood forest plant communities and Threatened and Endangered species (northern long eared bat, Blandings turtle).

Rice Creek. Wenck designed the plans to relocate and remeander Rice Creek as a subcontract to the Twin Cities Army Ammunition Plan (TCAAP) Site Redevelopment Infrastructure Development and Design Project. The selected design relocated Rice Creek from its past location to a new alignment that went around a proposed roundabout and fit within the new roads and bridges. Historically this reach of Rice Creek had been straightened so this project provided the opportunity to return this reach back to a more gentle channel slope, increasing the channel length from approximately 850 feet to 1,350 feet. As an opportunity for ecological restoration a major emphasis of the project in addition the new channel alignment was on integrating habitat features for non-game species of turtles, snakes, fox and birds.



3. Experience with innovative and alternative watershed management approaches that integrate water resources engineering with natural resource management.

We help build healthy, resilient legacies. Development of innovative and collaborative projects requires an understanding of goals and objectives at not only a local but national perspective. Wenck's 35 years of experience working not only with Federal partners (US Army Corp of Engineers, EPA, FEMA) but state partners (Minnesota DNR, MPCA, BWSR) and academia allows projects to have greater impact on the landscape. Bringing together the goals of each of these entities creates synergy which propel projects and programs to launch. Understanding how partner agencies work also unlocks funding for implementation of projects. Wenck has developed a distinguished track record for retaining grant funds for our clients through partner agencies. For the recently announced 2021 Clean Water Fund Grants, we assisted our clients in securing nearly \$2M of the \$11M awarded (18%).

Iron-Enhanced Sand & Biochar. Wenck continues to assist the Coon Creek WD and Shingle Creek WMO with the implementation of iron-enhanced and biochar filters. Biochar added to iron-sand filters has been shown in lab experiments to effectively remove bacteria such as *E. coli* from stormwater; these applications are the first field demonstrations of this new technology in the nation. Wenck's familiarity with cutting-edge science and understanding of the funding criteria resulted in an innovative solution that can be implemented in situations with limited opportunities for reducing bacteria from urban sources.

Drone Technology. Wenck utilizes small Unmanned Aircraft Systems (sUAS, aka "drones") to capture aerial property views, conduct topographic surveys, and collect crop data for agribusiness clients. We deliver high end video and photography presentations to document our findings. Our clients utilize these visuals for marketing and public relations opportunities. The use of sUAS saves time, money, and limits risk, in addition to adding tremendous visual value to our clients' portfolios.

Geographic Information Systems. Wenck utilizes GIS to efficiently manage our projects. Applications range from simple database management and mapping to complex GIS-based hydraulic and water quality modeling. The data we collect allows us to provide a thorough analysis and recommendations that can be readily implemented. In addition, we provide ongoing GIS contract support and database development and have integrated GIS with field data collection devices.

Stormwater Reuse. Wenck has assisted our clients with several stormwater reuse projects. Our team members have intimate knowledge of the reuse systems at Allianz and CHS Fields through the Capitol Region WD permitting process.

Wenck has also designed or assisted with reuse systems connected to stormwater ponds. Perhaps the largest reuse system in the state is one that Wenck designed for an industry in the Twin Cities. The pond collects all runoff up to a 100-year storm and then a pump system sends it to be reused as process water.

Sand Filter Research. Wenck was selected by the Minnesota Stormwater Research Council (MSRC) to assess the performance of underground sand filters. Surface sand filters are well understood and have been used for decades to treat stormwater in areas that have poor or contaminated soils. In urban settings, though, an increasing number of designers opt for underground filtration systems, which are designed with the same principles as surface systems but take up less space. However, they are harder to maintain and therefore tend to be treated with the "out of sight, out-of-mind" principle. This study will investigate if these systems are appropriate to install and if they have similar performance as their above ground counterparts.

MTD Research. Wenck systematically reviewed five manufactured treatment devices (MTDs) with the goal of providing Capitol Region WD with a recommended credit value that could be applied toward their volume management standard. This evaluation process considered phosphorus removal efficiencies, third-party verification, and climate/precipitation data.

MTD performance was evaluated based on pollutant removal efficiencies, with a specific focus on total phosphorus (TP) removal; particulate phosphorus (PP), which is attached to or a component of particulate matter; and dissolved phosphorus (DP) which is soluble. We recommended 55-68% volume credit based on the level of DP removal documented by third-party review agencies.

With Wenck's merger with Stantec, ECWMO will have access to international experts. For example:

Stantec eDNA. Environmental deoxyribonucleic acid (eDNA) is DNA that is naturally shed by organisms into their environment, such as streams, rivers, oceans, soils, even in fecal matter. By sampling the habitat in which species live, we can detect their presence without having to capture, handle, or even see the organisms we are looking for.

From conserving biodiversity to aquaculture monitoring, environmental DNA (eDNA) tools are proving to be reliable, sensitive, species-specific, and safe for the organisms being studied and the habitats in which they live. We have a growing number of DNA laboratory partners so that we can provide eDNA services where you work.

Compared to conventional survey methods involving capture or observation, eDNA tools are more cost-effective, safer for field staff, and can provide rapid results in the field to detect the species being studied, with the potential to shave substantial time off of your project schedule.

4. Engineering design and timely construction management and inspection.

In the ECWMO, for the most part capital projects are completed by the member city or cities in which the project is located. IN other WMOs where we have completed assessment or feasibility studies for the watershed, we have been gratified by the trust of the member cities that have elected to engage Wenck to assist with their projects.

Wenck collaborates with our clients from concept through completion and beyond. We take the time to understand not only your immediate need but your organization's overall goals. In addition to keeping your scope, schedule, and budget in alignment, we also place great emphasis on another critical project component – safety. We know that people are an organization's greatest asset, and our team is mindful of our client, subcontractors, and the general public on every project site. We represent you by working with regulators through the jurisdictional permitting process and with contractors to oversee your project from concept through construction. We offer civil engineering, design, specifications, bidding, and construction management expertise.

One recent project was completed for the City of Crystal, which is now home to one of the largest underground stormwater infiltration systems in the state of Minnesota. A study evaluating ways to add stormwater quality treatment to a fully developed commercial and residential area identified the City's flagship park, Becker Park, as an ideal location for a regional water quality improvement project. The opportunity to house the system underground, aided by \$1.475 million in non-City grant funds, inspired the City to scale up the project and seize the opportunity to redesign the park to better serve the community.



Wenck's multi-disciplinary team was involved throughout the entirety of the project and provided a range of services including project identification, grant writing, surveying, environmental due diligence, design, construction observation, and post-construction system monitoring. The project was retrofit into the City's storm sewer network and diverts stormwater into a 1.45-mile network of 6-foot

diameter perforated pipes beneath the park. The perforations in the pipe allow for captured stormwater to seep into and filter through surrounding soils. Prior to the project, the stormwater from the mixed commercial/residential landscape was untreated and routed directly through the storm sewer network to the impaired Upper Twin Lake. The project also provided an ancillary benefit of increasing flood storage, resulting in slight reductions of localized street flooding. When underground work was complete, there was room for new recreation facilities including an accessible playground, splash pad and a performance space.

Construction Management Experience. Wenck manages over \$200 million in construction projects annually. Our experience ranges from small stormwater ponds to 84-inch water transmission lines. Our team understands how to implement and manage construction projects to limit client liability and long-term operation and maintenance. We also take great pride in ensuring a safe work environment. Wenck is continuously improving our understanding on the best practices for construction and technologies when constructing projects.

Erosion & Sediment Control Inspections.

Wenck conducts erosion and sediment control inspections on behalf of MnDOT, Capitol Region WD, Coon Creek WD, and the Cities of Dayton and Lakeville. Inspections are performed to ensure project compliance with the MPCA general construction stormwater permit (MNR100001). Project types include urban mixed-use developments, single family home developments, road and highway reconstruction, bridge rehabilitation, parks and trails rehabilitation, and industrial site remediation.

Inspections include observing BMP functionality, inspecting surface waters, drainage ditches and conveyance systems for sediment deposition and erosion, and inspecting for temporary and permanent stabilization compliance. Other responsibilities include writing and disseminating reports documenting the observed findings and corrective actions, and communicating/ coordinating inspections and corrective actions with contractors and owners.

Wenck has developed digital applications to improve inspection and reporting efficiency, and to facilitate clear, consistent communication among stakeholders. These tools can be customized to meet your needs.



PROFESSIONAL FEE SCHEDULE

Wenck prides itself on providing value to our clients. We would be happy to provide references on request to attest to the quality of our work. Our fee schedule appears below.

2021 Hourly Rates

Classification	Hourly Rate	Key Personnel
Administrative Support/Technician	\$65 - \$90	Interns, Admins
Professional I	\$103 - \$128	Dietrich, Kemmitt, Omodt, Schmitz, Weis
Professional II	\$141 - \$165	Berry, Boll, Megow, Mullen, Strom
Professional III	\$175 - \$195	
Professional IV, V and Officer	\$205	Matthiesen, Spector

- Classifications listed above refer to the firm's internal system for billing purposes. The term "Professional" refers to engineers, scientists and business professionals.
- Invoices are due upon presentation. Invoice balances not paid within thirty (30) days of invoice date are subject to 1-1/2% (18% annual) interest or finance charge.
- Rates to be adjusted annually.



now part of



800-472-2232 | www.wenck.com



CAMPBELL KNUTSON

PROFESSIONAL ♦ ASSOCIATION

Direct Dial: (651) 234-6219

Email: jjammik@ck-law.com

December 23, 2020

Roger N. Knutson
Elliott B. Knetsch
Joel J. Jammik
Andrea McDowell Poehler
Soren M. Mattick
David S. Kendall
Henry A. Schaeffer, III
Alina Schwartz
Shana N. Conklin
James J. Mongé, III
Jerome M. Porter
Leah C.M. Koch
Meagan K. Kelley

Thomas J. Campbell*

*Retired

Mr. Doug Baines, Chair
Elm Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

RE: ELM CREEK WATERSHED MANAGEMENT COMMISSION
-Letter of Interest for Legal Consulting Services

Dear Mr. Baines:

In conjunction with the Board's regular review of its consulting services, we want to express our strong interest in reappointment as attorneys for the Elm Creek Watershed Management Commission ("WMO") for the fiscal years 2021 and 2022. We have represented the WMO since 1994 and have enjoyed our relationship with the organization. The following information is provided to assist in your review:

1. **THE FIRM.** Our firm name is Campbell Knutson, *Professional Association*, with a mailing address of Grand Oak Office Center I, 860 Blue Gentian Road, Suite 290, Eagan, Minnesota 55121. The firm is located near the intersection of I-494 and Dodd Road in Eagan. The firm has been located in the Eagan area since it was founded in 1986, and has been specifically located at the Grand Oak Office Center address since July 2015.

2. **FIRM EXPERIENCE.** Campbell Knutson focuses on providing municipal clients with competent, prompt, and cost conscious service. The firm employs 12 fulltime attorneys and 11 legal assistants. Our firm exclusively represents public sector clients. Campbell Knutson currently represents five other watersheds in the seven county area. The firm has been active in every aspect of watershed law including representing the League of Minnesota Cities during the original passage of the metropolitan water management planning and wetland conservation acts, drafting joint powers agreements, reviewing 509 Plans, advising clients on law and rule changes, reviewing grant applications and capital project procedures and WCA administration. Our practice of municipal law dovetails with our watershed practice. There is virtually no area of watershed law that we have not been involved with.

Grand Oak Office Center I
860 Blue Gentian Road
Suite 290
Eagan, Minnesota 55121
Main: 651-452-5000
Fax: 651-234-6237
www.ck-law.com

Page 2
 December 23, 2020
 Elm Creek Watershed Management Commission

3. **PROFESSIONAL STAFF AVAILABLE TO THE WMO.** If selected, we propose that Joel Jamnik will continue to be the lead attorney for the WMO and will attend Board meetings, as needed. Andrea Poehler, Dave Kendall, Soren Mattick, James Mongé, Shana Conklin and Leah Koch would also be available to provide legal services to the WMO.

4. **ATTORNEY QUALIFICATIONS/EXPERIENCE.** Joel Jamnik is an honors graduate of William Mitchell College of Law. He is also an honors graduate of St. Cloud State University, majoring in Criminal Justice and Political Science. Joel was Legislative Counsel and Senior Intergovernmental Relations representative for the League of Minnesota Cities from 1983-1987, with primary responsibility for land use, environment, criminal law, transportation, personnel, public safety, and general government issues. He was the League's primary lobbyist for all DNR and BWSR matters, and worked extensively on shoreland and wetland legislation and rules. Joel is a shareholder of the firm and provides general municipal services for all of the firm's clients. Currently, Joel is the City Attorney for Arden Hills, Braham, Burnsville, Farmington, Monticello, Mora, and Woodland. He also serves as the lead attorney representing the Pioneer-Sarah Creek Water Management Organization, the Eagan-Inver Grove Heights Watershed, the Black Dog Water Management Organization and the Lower Mississippi River Water Management Organization, and assists James Monge in providing legal services to the North Cannon River Watershed.

Individual resumés for Joel Jamnik, Andrea Poehler, Dave Kendall, Soren Mattick, James Mongé, Shana Conklin and Leah Koch are enclosed for your information as well.

5. **YEARS OF EXPERIENCE WITH WMO'S.** Campbell Knutson has represented seven other watersheds since 1982 and was appointed as attorneys for the Elm Creek Watershed Management Commission and the Pioneer-Sarah Creek Watershed Management Commission in 1994, was appointed as attorneys for the Eagan-Inver Grove Heights Watershed Management Organization in 2014 and was recently appointed as attorneys for the North-Cannon River Watershed in 2020. Campbell Knutson is highly experienced in water, zoning and land use law and recognizes the importance of meticulous drafting and interpreting skills as well as having a broad background in administrative and procedural requirements. All of the attorneys at Campbell Knutson are involved in representing our municipal clients, and the firm is well known for its expertise in watersheds, zoning, land use and planning.

6. **OTHER WMO'S REPRESENTED BY THE FIRM AND CONTACT INFORMATION FOR EACH.**

Black Dog
 Daryl Jacobson, Administrator
 (952) 895-4574

Lower Mississippi River
 Joe Barten, Administrator
 (651) 480-7784

Eagan-Inver Grove Heights
 Ashley Gallagher, Administrator
 (651) 480-7781

North Cannon River
 Ashley Gallagher, Administrator
 (651) 480-7777

Page 3
December 23, 2020
Elm Creek Watershed Management Commission

Pioneer-Sarah Creek
Judie Anderson, Administrator
(763) 553-1144

7. **HOURLY BILLING RATES FOR 2021 AND 2022.** Campbell Knutson proposes to provide general legal services to the Elm Creek WMO at the following rates for the fiscal years of 2021 and 2022:

Attorneys	\$ 165.00/hour
Law Clerks	90.00/hour
Legal Assistants	90.00/hour

Services rendered are billed according to the actual time incurred, with a minimum increment of one-tenth of an hour. We would also bill for photocopies at \$.20/page and Westlaw at actual cost. The WMO would not be charged for any other items. For any of our work that the Commission passes through to developers we would bill in accordance with our firm's schedule of pass-through rates (generally \$200.00 to \$400.00 per hour depending on attorney, for example, Joel's current pass-through rate is \$250/hour).

We have enjoyed working with the WMO in the past and hope to continue our work relationship in the future. If you have any questions or require any additional information, please feel free to contact me.

Very truly yours,

CAMPBELL KNUTSON
Professional Association

By: 
Joel J. Jamnik, Vice-President

JJJ/jmo

Enclosures



JOEL J. JAMNIK

Shareholder

jjamnik@ck-law.com
(651) 234-6219



PRACTICE AREAS

Joel has an extensive background in municipal law, including lobbying, land use planning and development, zoning, watershed management, contracts, personnel, data practices, and ordinance preparation.

PROFESSIONAL EXPERIENCE

From 1980 to 1997, Joel served as Research Assistant, Legislative Counsel and finally Senior Intergovernmental Relations Representative for the League of Minnesota Cities. Joel was primarily responsible for city-state relations in the areas of land use, environmental law, criminal law, transportation, personnel, public safety and general governmental policy. He was chief author of the Handbook for Minnesota Cities 1983-1995, and frequent presenter for the LMC and Government Training Services.

PROFESSIONAL MEMBERSHIPS

- Minnesota State Bar Association
 - o Public Law Section
- Dakota County Bar Association
- Minnesota Association of City Attorneys
 - o Past President and Board Member
- International Municipal Lawyers Association

EDUCATION

William Mitchell College
of Law
J.D., magna cum laude

St. Cloud State
University, B.A. with
honors (dual major in
CJS and Political
Science)

BAR ADMISSIONS

Minnesota

U.S. District Court,
District of Minnesota



**ANDREA
MCDOWELL
POEHLER**

Shareholder

apoehler@ck-law.com
(651) 234-6224



PRACTICE AREAS

Andrea attends Lakeville Planning Commission meetings and acts as an assistant city attorney for all of the firm's clients. Andrea specializes in the following areas of law:

- Real Estate
- Land Use
- Employment Law
- Housing and redevelopment authority law
- Economic development authority law

PROFESSIONAL EXPERIENCE

Before joining the firm, Andrea clerked for the Honorable Jack Davies of the Minnesota Court of Appeals. Andrea has been a member of the firm since 1993 and a shareholder since 2000.

PRESENTATIONS & PUBLICATIONS

- Minnesota Continuing Legal Education Presenter, 2015
 - o Land Use Law
- *Land Use, The Complete Real Estate Lawyer's Quick Answer Book*, 2015

EDUCATION

William Mitchell College
of Law
J.D., cum laude

St. Olaf College, B.A.
(dual major in English
and Mathematics)

**PROFESSIONAL
MEMBERSHIPS**

- Minnesota
Association of City
Attorneys
- Minnesota State Bar
Association, Public
Law Section & Real
Estate Section
- Sensible Land Use
Coalition
- American Planning
Association
- Dakota County Bar
Association
- 2016 Young Lawyer
Mentorship Program

BAR ADMISSIONS
Minnesota



DAVID S. KENDALL

Shareholder

dkendall@ck-law.com
(651) 234-6207



PRACTICE AREAS

David practices real estate litigation with an emphasis on eminent domain cases involving government takings of property for road expansion, improvement projects, access takings, and many other purposes. David has tried hundreds of cases before condemnation commissioners, judges, and juries.

David also practices general municipal and governmental law, working in the areas of zoning and land use, commercial real estate development, data practices, special assessment appeals, and permitting.

PROFESSIONAL EXPERIENCE

David recently joined the firm as a litigation specialist. Prior to joining the firm, David served as judicial law clerk for the Honorable Robert Varco in the Tenth Judicial District from 2000 to 2001; as Assistant Pine County Attorney, Pine City, Minnesota from 2001 to 2004; and as Partner with LeVander, Gillen, and Miller from 2004 to 2017.

PROFESSIONAL MEMBERSHIPS

- Minnesota State Bar Association
- Dakota County Bar Association
- First Judicial District Bar Association
- Minnesota County Attorney Association

ORGANIZATION

Rotary Club, 2009 - Present
Club President, 2014 - 2015

EDUCATION

University of Minnesota
Law School
Juris Doctorate (J.D.)
Cum Laude

Denison University,
Granville, Ohio
Bachelor of Arts (B.A.)

BAR ADMISSIONS

Minnesota

U.S. District Court,
District of Minnesota



SOREN M. MATTICK

Shareholder

smattick@ck-law.com
(651) 234-6217



PRACTICE AREAS

Soren provides general municipal services for all of the firm's clients. In addition, Soren handles all aspects of civil litigation on behalf of the firm's clients as well as code enforcement. He has been a land use instructor for Government Training Services.

PROFESSIONAL EXPERIENCE

Soren joined the firm in 2001 after spending five years with the Rice County Attorney's office and is a shareholder of the firm. Soren was an Assistant Rice County Attorney from 1997 to 2000, with primary responsibility for land use, waste management, and forfeiture issues.

PROFESSIONAL MEMBERSHIPS

- Minnesota State Bar Association
- Rice and Dakota County Bar Associations

EDUCATION

Hamline University Law
School
J.D.

Luther College, B.A.

BAR ADMISSIONS

Minnesota



JAMES J. MONGÉ III

Attorney

jmonge@ck-law.com
(651) 234-6201



PROFESSIONAL EXPERIENCE

James joined the firm in 2015. From 2000-2015 James served as a Senior Land Use Litigator, Property/Casualty Litigator, and Research Attorney for the League of Minnesota Cities. From 1998-2000, James served as judicial law clerk for the Honorable Paul T. Benshoof in the Ninth Judicial District.

James has an extensive background in municipal law, including land use, open meeting law, data practices, and ordinance drafting. He also has significant litigation experience.

NOTABLE CASES

Sawh v. Lino Lakes, 823 N.W.2d 627 (Minn. 2012) (city's determination that dog was a dangerous animal did not violate owner's constitutional right to procedural due process and was supported by a substantial basis in the record).

Ortell v. City of Nowthen, 814 N.W.2d 40 (Minn. App. 2012) (city's denial of application for a variance upheld).

Wessman v. City of Mankato, 2011 Minn. App. Unpub. LEXIS 597 (trial court's dismissal of plaintiff's substantive due process and temporary regulatory taking claims affirmed).

Hess v. Fergus Falls, 2007 Minn. App. Unpub. LEXIS 1061 (city decision to vacate right of way upheld).

EDUCATION

Marquette University
Law School J.D., 1998

Boston College
B.A., 1995

PROFESSIONAL MEMBERSHIPS

- Minnesota State Bar Association
- Wisconsin State Bar Association
- Ramsey County Bar Association
- Warren E. Burger Inn of Court

RECOGNITION

Super Lawyers
Rising Star, 2007 & 2008

BAR ADMISSIONS
Minnesota

Wisconsin

U.S. District Court,
District of Minnesota



SHANA N. CONKLIN

Attorney

sconklin@ck-law.com
(651) 234-6203



PROFESSIONAL EXPERIENCE

Prior to joining Campbell Knutson as an attorney, Shana served as a judicial law clerk for the Honorable Richard A. Zimmerman in the Ninth District of Minnesota. During law school, she clerked at the Saint Paul City Attorney's Office. In that role, she conducted administrative grievance hearings on behalf of the Public Housing Agency. In addition, she completed a summer clerkship with the U.S. Attorney's Office for the District of Minnesota.

PRACTICE AREAS

Shana joined the firm in 2013 and practices in the area of Municipal Law. She assists in representation on civil and criminal issues, and she provides legal advice to cities on a variety of issues. She assists with code enforcement cases, civil litigation, and policy review.

PROFESSIONAL MEMBERSHIPS

Criminal and Juvenile Justice Information Advisory Group
Coordinated Community Response (CCR) Member
Planning Committee
Minnesota State Bar Association
Public Law Section and Criminal Section
Dakota County Bar Association
Suburban Hennepin County Prosecutors' Association

PRESENTATIONS

Presenter at a Continuing Legal Education (CLE) Seminar: Padilla 201: Practical Challenges since *Padilla v Kentucky*, 2018

PUBLICATIONS

Juveniles Locked in Limbo: Why Pretrial Detention Implicates a Fundamental Right, Note, 96 MINN. L. REV. 2150 (2012).

EDUCATION

University of Minnesota
Law School
J.D., *magna cum laude*

University of Minnesota,
Twin Cities
B.A., *magna cum laude*

BAR ADMISSIONS

Minnesota

U.S. District Court,
District of Minnesota

RECOGNITION

ΦBK, Dean's List, Phi
Kappa Phi, Mortar Board
Honor Society



LEAH C.M. KOCH

Attorney

lkoch@ck-law.com
(651) 234-6226



PRACTICE AREAS

Leah practices general municipal and governmental law. Leah assists in providing all of the firm's municipal clients with civil legal services. Her work includes a wide range of projects, such as drafting ordinances and contracts, attending council meetings, and advising municipal staff on real-time legal questions.

PROFESSIONAL EXPERIENCE

Leah provides service to all the firm's municipal clients by drafting and reviewing documents and conducting legal research. Leah graduated from the University of St. Thomas in 2015 with a Bachelor of Arts in Political Science. In 2018, she graduated from University of St. Thomas School of Law.

Leah has a background in non-profit legislative advocacy including preparing legislative committee testimony, coordinating advocate outreach, and producing legislative reports. Prior to joining Campbell Knutson, Leah served as a judicial law clerk for the Honorable Thomas Pugh and the Honorable Timothy McManus in the First District of Minnesota. Leah contributed to the Minnesota Judicial Handbook under the supervision of the Honorable Jamie Cork.

PROFESSIONAL ASSOCIATIONS

- Minnesota State Bar Association
 - o Public Law Section
- Dakota County Bar Association
- Sensible Land Use Coalition

EDUCATION

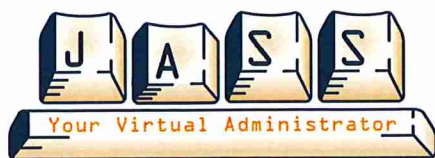
University of St. Thomas
Law School, J.D.

University of St. Thomas,
Master of Arts (M.A.)

University of St. Thomas,
Bachelor of Arts (B.A.)
Cum Laude

BAR ADMISSIONS
Minnesota

COMMUNITY
NorthStar Neighbors
Volunteer



3235 Fernbrook Lane
Plymouth, MN 55447
(763) 553-1144
Fax: (763) 553-9326

January 4, 2021

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

Dear Mr. Baines:

In accordance with state law and the recent publication in the *State Register*, please accept this letter as an expression of JASS' interest in continuing to provide administrative services for the Elm Creek Watershed Management Commission. Below is a brief listing of the services JASS currently provides to the Commission.

- Facilitates and attends regular, Technical Advisory Committee, budget, and other special meetings. Establishes effective administrative procedures. Creates minutes, maintains documents of the Commission as governed by Minnesota Statute 138.17.
- Coordinates and facilitates strategic planning and implementation, provides project oversight.
- Acts as liaison between the Commission and the public, member communities, county, state and federal agencies, watershed management organizations, and the technical and legal advisors of the Commission. Facilitates communications among the Commission's members and stakeholders.
- Serves on the West Metro Watershed Alliance (WMWA). Coordinates educational activities and other outreach events. Assists in developing educational programming for citizens, public officials, educators, students, and city staffs.
- Judie Anderson serves as Deputy Treasurer of the Commission and is responsible for oversight of the Commission's financial transactions and internal controls of Commission financial management among JASS staff. She also assists with the annual audit and development of the Commission's annual operating budget. Anderson also oversees the Commission's website content and provides monthly and annual reporting.
- Amy Juntunen serves as JASS' Vice President of Operations, and Anderson's primary back-up to the Commission. She is responsible for Watershed-based Funding activities and serves as administrative support for WMWA.
- Beverly Love is responsible for the day-to-day financial operations of the Commission, assists with the annual audit, and oversees administrative coordination for project reviews.
- Other staff members provide ongoing records maintenance, maintain the Commission website, coordinate meeting packets, and serve in various other ancillary roles.

JASS has the personnel and equipment to maintain an efficient and effective general office environment. Our current billing rates range from \$60.00/hour for office support to \$75.00/hour for meeting attendance and offsite administration.

In addition to the Elm Creek Commission, JASS also provides administrative services for the Shingle Creek, West Mississippi, Pioneer-Sarah Creek, and Mississippi Watershed Management Commissions, the Clearwater River Watershed District, and WMWA, of which the Commission is a member.

We will be happy to provide the Commissioners with any additional information they require.

Sincerely,

A handwritten signature in black ink, appearing to read "Judie A. Anderson". The signature is fluid and cursive, with the first name "Judie" being more prominent than the last name "Anderson".

Judie A. Anderson
President

JAA:tim

Z:\Elm Creek\Consultants\2021\JASS_2021.doc



MINNESOTA

CAMPAIGN FINANCE BOARD

December 10, 2020

Judie Anderson
Elm Creek Watershed Mgmt Commission
3235 Fernbrook Ln
Plymouth, MN 55447

From: Campaign Finance and Public Disclosure Board

Subject: Statement of interest requirements for your agency's public officials

You are receiving this notice because you are the contact person for an agency that has members or employees who are public officials. All public officials who served in 2020 must update their statements of economic interest in January 2021. In addition, public officials newly elected or re-elected in November 2020 must file original statements of economic interest after taking office in January 2021. The Board is asking for your help in reminding the public officials in your agency of these requirements. In doing so, please keep these things in mind:

- A public official who served in 2020 must review and recertify his or her statement **even if he or she left the public official position during the year, or if nothing on it has changed**. Please be sure that the public officials leaving your agency at the end of the year are aware of the filing requirement.
- The annual recertification must be filed **after January 1, 2021, but no later than January 25, 2021**. A public official who does not file a recertification by the deadline will be subject to the imposition of late filing fees and a potential civil penalty.
- Newly elected or re-elected public officials must file statements of economic interest for their new terms **after taking office in January**. A re-elected public official may file one statement that satisfies both the annual review and the new term requirement.
- The Board will send letters directly to all public officials in late December notifying them of the requirements that apply to them and giving them the information necessary to file online. Paper copies of the statement may be printed from the Board's website by any official unable to file online.

If you are not sure who in your agency is considered a public official, you can view the list of the public officials in your agency by entering your agency's name into the search box at <https://cfb.mn.gov/reports-and-data/officials-financial-disclosure/agency/>.

If you need to correct any inaccuracies on the list for your agency, or if you have questions about the reporting requirements in general, please contact Jodi Pope at 651-539-1183, 800-657-3889 or jodi.pope@state.mn.us.

Thank you in advance for your assistance.

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
E-mail: judie@jass.biz

TECHNICAL OFFICE
Barr Engineering
4300 MarketPointe Drive
Minneapolis, MN 55435
952-832-2600

E-mail: surfacewatersolutions@outlook.com

Markets at Rush Creek Outlot L Multi-Tenant **Maple Grove, Project #2020-001**

Project Overview: Outlot L is a 1.55-acre lot located in The Markets at Rush Creek (Hy-Vee South) PUD development. This project is just west of the Hy-Vee gas station and south of CR10. A 12,000 sq. ft. multi-tenant building and its associated parking is proposed for this site. Stormwater management for this lot is part of the regional stormwater system approved by the Commission for project 2016-002. Commission rules require compliance for stormwater management (Rule D) and erosion and sediment controls (Rule E),

Applicant: Hy-Vee Inc., Attn. Jeffery Stein, 5820 Weston Parkway, West Des Moines, Iowa, 50266. Phone: 515-267-2800. Email; jstein@hy-vee.com

Agent: Alliant Engineering, Attn. David Nash, 733 Marquette Avenue, Suite 700, Minneapolis, MN 55402-2340. Phone; 612-767-9327. Email; dnash@alliant-inc.com

Exhibits:

- 1) A complete ECWMC application received January 17, 2020.
 - a. ECWMC Request for Review and Approval dated January 13, 2020
 - b. City of Maple Grove authorization dated January 15, 2020
 - c. Project review fee, \$550.00 for 1.6 acres of disturbance, commercial/industrial project received January 17, 2020
 - d. Site plan design submittal via email on January 10, 2020.
 - e. Signed and dated plans received December 2, 2021.
- 2) Markets at Rush Creek Outlot L Multi-Tenant Development Stage Plan and Final Plat, by Alliant Engineering dated and signed December 2, 2020.
 - a. Sheet 1 of 13, Cover Sheet
 - b. Sheet 2 of 13, Existing Conditions
 - c. Sheet 3 of 13, Site Plan
 - d. Sheet 4 of 13, Erosion Control Plan
 - e. Sheet 5 of 13, SWPPP Notes
 - f. Sheet 6 of 13, Grading Plan
 - g. Sheet 7 of 13, Utility Plan
 - h. Sheet 8 of 13, Pedestrian Ramp Detail
 - i. Sheets 9-11 of 13, Civil Details
 - j. Sheet 12 of 13 Landscape Plan and Details
 - k. Sheet 13 of 13 Photometric Plan
- 3) ECWMC project files for 2016-002, Markets at Rush Creek Development Stage PUD.
- 4) ECWMC 2020-001 findings and decision dated January 23, 2020.

Findings.

- 1) A complete application was received January 17, 2020. Updated plans addressing findings dated January 23, 2020 were received December 2, 2020. The initial decision period deadline per MN Statute 15.99 is March 17, 2020.

Stormwater Management

- 2) This lot was designed to drain into regional stormwater treatment system approved by the ECWMC on Project 2016-002 for the Markets at Rush Creek PUD.
 - a. Stormwater treatment for Project 2016-002 was designed to meet the Commission's requirements from their 3rd Generation Stormwater Management Plan.
 - b. Stormwater from Outlot L was designed for 76% impervious and 24% pervious areas for the regional treatment facilities in the Markets at Rush Creek PUD.
 - c. Based on the Outlot L site plan, actual impervious areas will be 74%. Pervious areas will be 26%.
 - d. Site plan drainage and impervious areas on the Outlot L are consistent with the approved stormwater management plan for the Markets at Rush Creek.

Floodplain/Wetlands/Buffers/Stream Crossing

- 3) There are no floodplains, wetlands, wetland buffers or stream crossing within this site area.

Erosion and sediment control plans

- 4) The proposed SWPPP narrative and erosion control plans meet the requirements of the Commission.
 - a. Perimeter silt fence, a rock construction entrance, inlet protections and vegetation restoration are provided during and after site work.

Decision: This site is administratively approved. Approval is good until December 31, 2021.

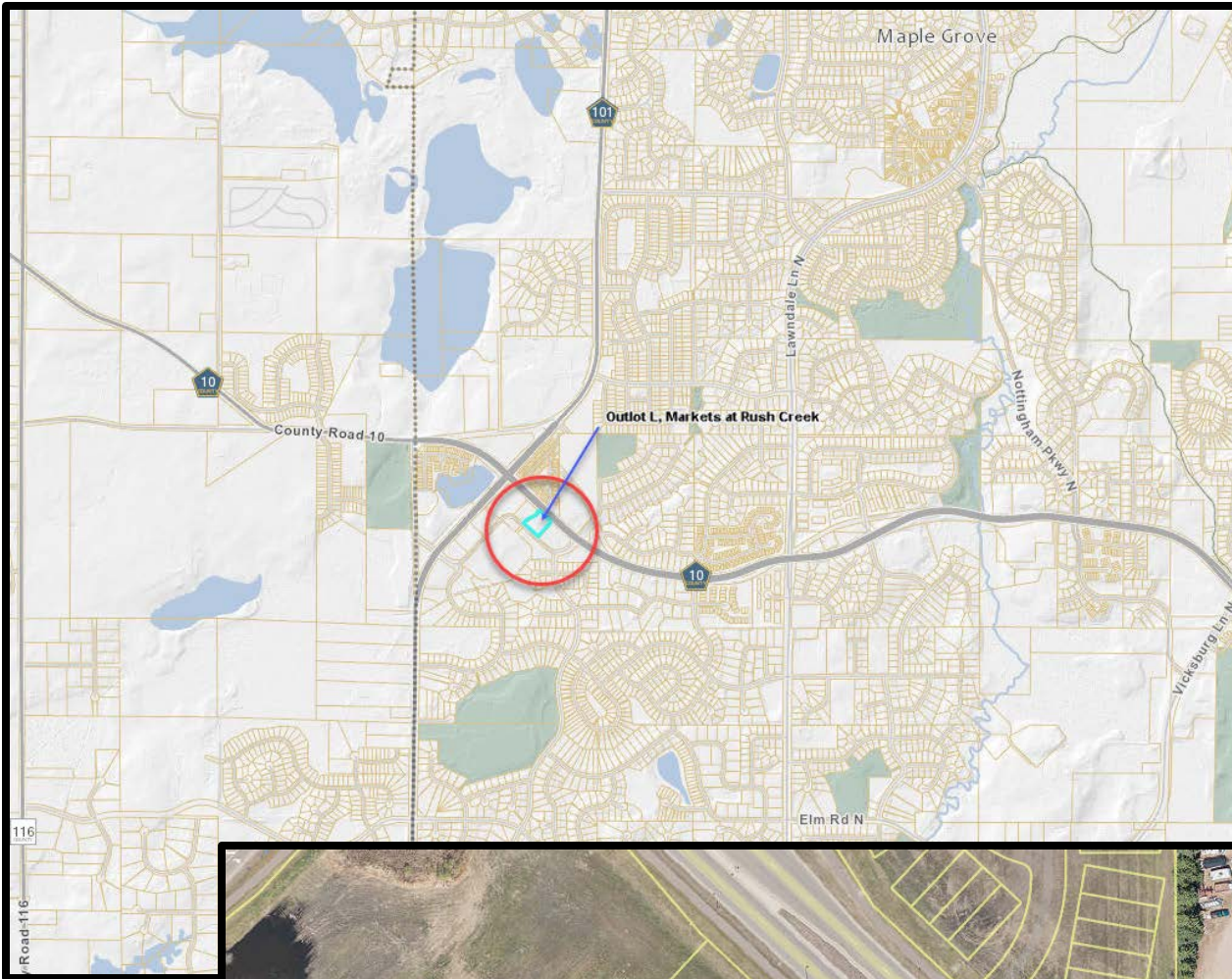
Advisor to the Commission



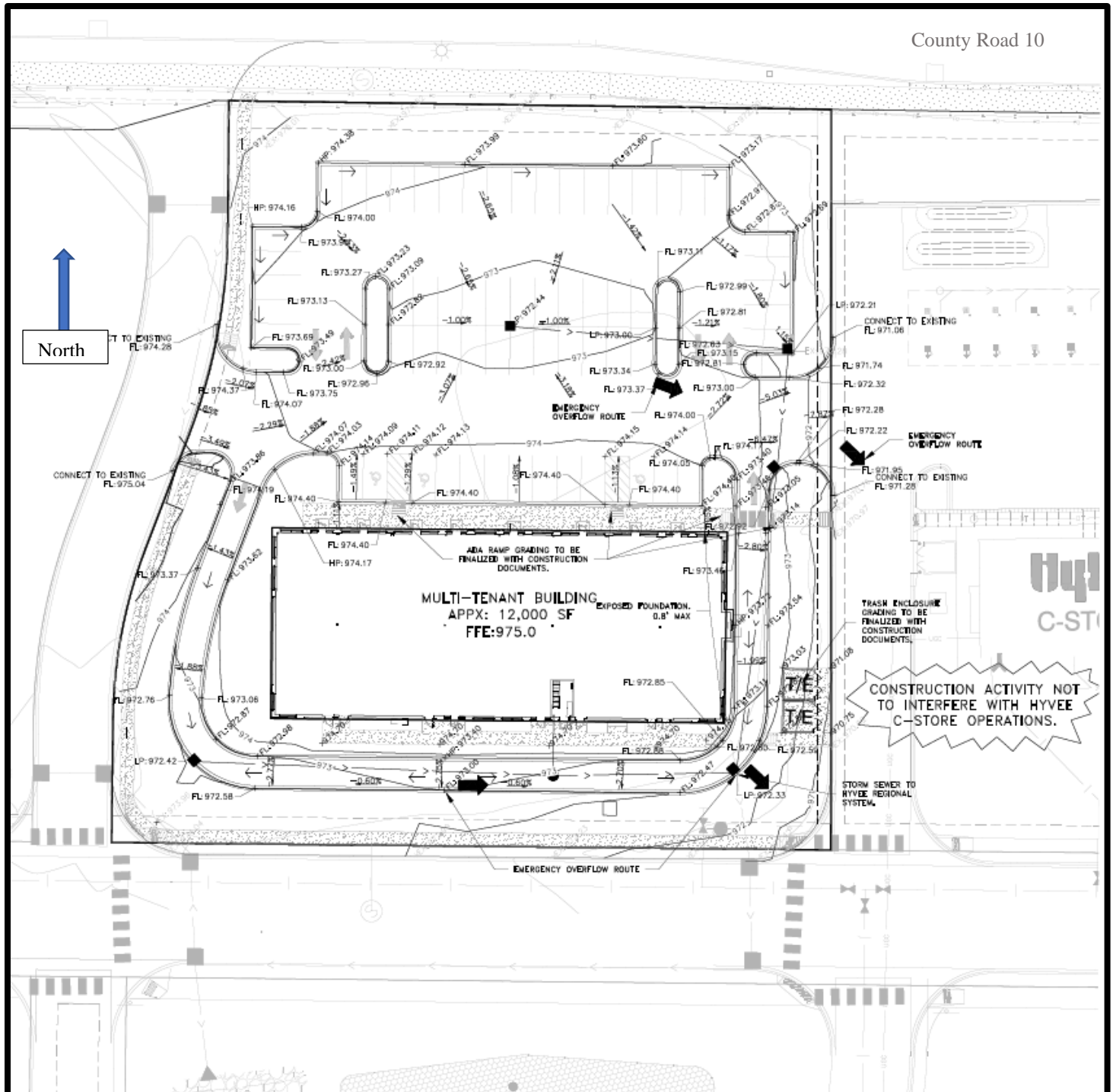
Surface Water Solutions

January 6, 2021
Date

Location Map



Outlot L Multi-Tenant Building Grading & Drainage Plan



elm creek

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jHerbert@barr.com

Skye Meadows **Rogers, Project #2020-016**

Project Overview: Lennar Corporation is proposing to construct a residential development on 130 acres along Territorial Road. This site consists of 6 separate parcels located on both sides of Territorial Road (CR116) just to the west of Tilton Trail. There are 363 single family residential units proposed creating 38.73 acres of new impervious areas in seven phases. This review will cover stormwater management, erosion controls, floodplain alterations, wetland alterations, and buffer strips for all phases. This review is based on the site plans submitted December 9, 2020 that cover all phases of the project.

This project triggers the Commission's Appendix C Rules and Standards as indicated below.

- | | | |
|---|--------|---------------------------------------|
| X | Rule D | Stormwater Management |
| X | Rule E | Erosion and Sediment Control Phase 1A |
| X | Rule F | Floodplain Alterations |
| X | Rule G | Wetland Alteration |
| | Rule H | Bridge and Culvert Crossings |
| X | Rule I | Buffer Strips |

Applicant & Agent: Lennar Homes, Attention Paul Tabone, 16305 36th Ave. N. Suite 600, Plymouth, MN 55443. Phone: 952-249-3075. Email: paul.tabone@lennar.com

Agent/Engineer: ISG, Attention Jeremy Foss, 7900 International Drive, Suite 550, Minneapolis, MN 55425. Phone: 952-426-0699. Email: Jeremy.foss@ISGInc.com

Exhibits:

Exhibits submitted December 9, 2020 for this review:

- 1) Lennar Homes Skye Meadows Development Preliminary Site Plans by ISG. Original Issue Date March 27, 2020 with latest revision date of December 4, 2020 except as noted.
 - a. Sheet 1 of 57 Title Sheet
 - b. Sheet 2 of 57, Phasing Plan,
 - c. Sheet 3 of 57, Typical Street Section
 - d. Sheet 4-8 of 57, Site Details
 - e. Sheets 9-15 of 57, Stormwater Pollution Prevention Plan
 - f. Sheets 16-20 of 57, Existing & Removals Plan

- g. Sheets 21-25 of 57, Preliminary Plat
 - h. Sheet 26 of 57, Overall PUD Master Site Plan
 - i. Sheets 27-30 of 57, Site Plan
 - j. Sheets 31-39 of 57 Utility Plans
 - k. Sheets 40-44 of 57, Grading Plan
 - l. Sheets 45-50 of 57, September 29, 2020 updates to Wetland Buffer & Impact Plan
 - m. Sheets 51-55 of 57, Landscaping Plan
 - n. Sheet 56 of 57, Entry Monument Enlargement
 - o. Sheet 57 of 57, Tree Preservation Plan.
 - p. Stormwater Detail sheets A through G received on June 15, 2020 updates
- 2) Construction Plan Sheets for Skye Meadows Development (Phase 1A) by ISG dated September 9, 2020 with latest revision date of November 20, 2020.
- a. Sheet 1 of 50 Title Sheet
 - b. Sheet 2 of 50, Phasing Plan,
 - c. Sheet 3 of 50, Construction & Soil Notes
 - d. Sheet 4 of 50, Typical Street Section
 - e. Sheets 5-16 of 50, Site Details
 - f. Sheets 17 to 23 of 50, Stormwater Pollution Prevention Plan
 - g. Sheet 24 of 50, Existing & Removals Plan
 - h. Sheets 25-38 of 50, Utility Plans, Road and Utility Construction, Hydrant Coverage Plan
 - i. Sheets 39-42 of 50, Grading Plan
 - j. Sheets 43 and 44 of 50, Intersection Details, Overall Signage & Stripping Plan
 - k. Sheet 45 to 50 of 50, Site Restoration and Landscaping Plans.
- 3) Lennar Territorial Road Development Stormwater Management Report by ISG dated October 30, 2020. Including HydroCAD report existing conditions print date October 30, 2020 and proposed conditions print date October 30, 2020, existing and proposed drainage maps, Geotechnical Evaluation Report by Braun Intertec dated December 17, 2019, and MIDS Calculations.
- 4) ISG memo dated December 3, 2020 regarding, culvert sizing for P-12 under Marie Place, Lennar Homes Skye Meadows Development
- 5) December 7, 2020 correspondence from Emily Shaw, ISG, regarding response to November 24, 2020 ECWMC findings and reviews.

Exhibits from prior reviews:

- 6) Project review fees, \$9,130.00 received May 14, 2020.
- 7) Previous ECWMC findings and project reviews for Skye Meadows dated June 19, 2020, September 24, 2020, October 2, 2020, and November 24, 2020.
- 8) Skye Meadows Wetland Permit Application by Westwood dated May 18, 2020.
- 9) Skye Meadows MN WCA Notice of Decision for wetland replacement plans from City of Roger (WCA LGU) dated September 29, 2020
- 10) September 11, August 24, and June 12, 2020 correspondence from Emily Shaw, ISG, regarding response to ECWMC findings and reviews.

Findings:

General

- 1) A complete application was received on May 14, 2020. The decision period per MN Statute 15.99 has been extended to February 17, 2021.
- 2) This review summarizes and updates all previous reviews. It is based on the site plans submitted December 9, 2020.
- 3) The Commission decision for Rules D, F, G, and I will be good for the duration on all phases of this project unless stormwater revisions by the applicant or city are requested. Rule E decision is good for one year after the Commission's approval.
- 4) Drainage on this site will flow into two major watersheds, the Elm Creek Watershed, and the Crow River Watershed.
 - a. Existing Flows: 47 acres flows to the south into a series of large wetland/floodplain/ditched areas before entering the North Fork of Rush Creek just north of the CR 117 and 116 intersection in Rogers. The northerly 76 acres flows north, eventually making its way into Fox Creek approximately $\frac{3}{4}$ of a mile north of this site. Fox Creek flows for about 2 miles before entering the Crow River just north of CR 44 near the railroad track west of I94.
 - b. Proposed Flows: The project will route 62 acres south into the Rush Creek Basin and 61 acres north into the Crow River Basin.
- 5) Existing soils are Nessel/Cordova/Angus/Lester loams. Geotechnical soil borings and analysis show high clay contents and high-water tables, unsuitable for infiltration.
- 6) The City of Rogers assumes responsibility for the long-term operation and maintenance of the stormwater basins on residential sites where water reuse (irrigation) is not utilized as a stormwater component. Water reuse is not proposed in the stormwater management plan so no other O & M agreements will be required from the Commission.
- 7) To date, only the Phase 1A Rule E requirements have been administrative approved by the ECWMC. See ECWMC findings and approval on Phase 1A dated October 2, 2020.

Stormwater Management (Rule D)

General

- 1) Phase 1B Stormwater management **does not meet** the Commission's requirements.
 - a. ACTION REQUIRED: Final grading plans on Phase 1B must comply with the Commission's low floor/100-year elevation requirements. Phase 1B home elevations continue to be refined by the applicant and developer to comply with the Commission's Rule D 3i (7) criteria.
- 2) To manage stormwater for all seven phases (120 acres) the applicant proposes to construct 13 stormwater basins.
 - a. Phase 1A stormwater management will be provided by 1 wet detention pond that does not meet NURP requirements and 2 biofiltration ponds.
 - b. Phase I B final grading plans are still under design. Phase 1B storm pond is complete. It includes 1 wet detention pond.
 - c. Stormwater management for areas south of Territorial Road will be provided by 12 stormwater basins; 3 wet detention ponds that comply with NURP standards, 3

wet detention ponds that do not comply with NURP standards, 1 dry surge basin and 2 biofiltration basins

- 3) Pipe outlets will be submerged for skimming of floatables and oils.
- 4) ACTION REQUIRED: Storm pipe inlets FES 205 and 212 on basins H and I, and FES 304 on Basin K must be extended to the NWL of the basin.
- 5) Lowest most floor elevations will meet the Commission standards except for Phase 1B.
 - a. Existing homes at 22500 and 22510 Territorial Road are protected as well or better from flooding than their current status. Existing HWL = 939.5. Proposed HWL = 939.1
 - b. Lots 1 to 8 on Phase 1B do not meet the Commission standard for low floor/HWL difference.

Table 1 Minimum Lowest Floor Elevations

Basin	100-year Elevation	Minimum Lowest Floor Elevation	Phase
Basin A	940.8	942.8	1B
Pond B/Basin B	942.8	944.8	1A
Basin D	950.4	952.4	1A
Pond E	955.7	957.7	Future
Pond F	956.7	958.7	Future
Basin G	956.5	958.5	Future
Ponds H & I/Basin J	948.1	950.1	Future
Pond K	944.9	946.9	Future
Basin K.2	943.0	945.0	Future
Pond M	934.3	936.3	Future
Wetland 7	938.8	940.8	1B
Wetland 8 (middle)	939.4	941.4	1B
Wetland 8 (NW)	937.4	939.4	1B
Wetland 13	955.2	957.2	Future

Rate Controls

- 1) Overall site plans **meet** the Commission's standards for rate controls.
- 2) Overall peak flows will be controlled at the discharge points from this site by the proposed ponds and biofiltration basins and their outlet controls. Table 2 summarizes the flows from this site based on the major watershed divisions.

Table 2 Rate Control Summary

Primary Discharge Points	Area (Acres)	Conditions	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
North to Fox Creek/Crow River	76.0	Existing	99.8	169.5	311.9
	60.9	Proposed	62.2	125.1	234.7
	-15.1	Change	-37.6	-44.4	-77.2
South to Rush Creek/Elm Creek	47.4	Existing	97.1	164.7	303.0
	62.0	Proposed	33.1	63.6	141.7
	+14.6	Change	-64.0	-101.1	-161.3

Abstraction Controls (38.73 acres new impervious areas).

- 1) Overall site plan abstraction controls **meet** the Commission's requirements
- 2) There are 5.38 acres of existing impervious areas on the overall site. After development there will be 44.11 acres of impervious areas. To meet the ECWMC requirements, new impervious area water volume must be abstracted. There are 38.73 acres of new impervious areas.
- 3) True abstraction will not occur because soil infiltration rates (based on geotechnical report) are too low to absorb a 1.1" rainfall event over 48 hours.
- 4) In lieu of true abstraction, four (4) biofiltration basins will be installed throughout the project to filter the required 1.1" volume of runoff from all new impervious areas.
- 5) For pre-treatment, the surface water from impervious areas will be directed into wet-detention ponds, forebays or vegetated swales prior to flowing into biofiltration basins.
- 6) Table 3 summarizes the preliminary volume of filtration that is credited toward abstraction controls.

Water Quality Controls

- 1) Overall water quality controls **meet** the Commission's requirements.
 - a. Table 3 summarizes the overall preliminary phosphorus and total suspended solids leaving the site before and after development.

Table 3 Overall Site Plan Stormwater Summary

CONDITION (123.4 AC.)	TP LOAD (LBS/YR)	TSS LOAD (LBS/YR)	FILTRATION (CU. FT.) ⁽¹⁾	ANNUAL VOLUME (AC. FT.)
Pre-development (baseline)	104.2	17,711	N/A	75.9
Post-development without BMPs	140.4	25,111	154,649	134.9
Post-development with BMPs	83.3	14,168	177,942	126.9
Net Change	-20.9	-3,543	+22,293	+50.8

(1) 38.73 acres new impervious

Buffer Strips (Rule I).

- 1) Buffer strips **meet** the Commission's requirements.
- 2) The ECWMC requires a 25' average and 10' minimum buffer width for all wetlands.
 - a. Where slopes within a buffer are graded, any final slope steeper than 6:1 must increase buffer widths 5 feet horizontally for every 1-foot vertical increase (i.e., 5:1=30 feet, 3:1 = 45 feet average).
 - b. Linear roadways and trails must have buffers established to the extent practicable, but are exempt from buffer averages
- 3) Total buffer areas required are 247,325 square feet (5.68 acres) vs propose buffers of 373,490 square feet (8.57 acres)
- 4) Buffer vegetation establishment and maintenance requirements are in accordance with the Commission's requirements.

Wetland Alterations (Rule G)

- 1) Wetland alterations **meet** the Commission's requirements.
- 2) The City of Rogers is the LGU in charge of administering the MN Wetland Conservation Act. Impacts of 1.77 acres are proposed throughout all 7 phases of the development.
 - a. The City of Rogers wetland and zoning codes follow the ECWMC wetland alteration rules.
 - b. A technical evaluation panel (TEP) meeting was held June 19, 2020. ECWMC provided comments to the TEP per item 5 above.
 - c. The final wetland replacement plan was approved on September 29, 2020. The City of Rogers (WCA LGU) approved the revised wetland replacement plan application and supporting documentation dated September 2, 2020.
 - d. Wetland replacement credits of 3.55 acres will be purchased from BWSR bank account #1546 (Ball Bank)

Floodplain (Rule F)

- 1) Floodplain impacts **meet** the Commission's requirements.
- 2) The stormwater management plan interprets the base flood elevation (BFE) in the wetland basin south of CR116 at 932.0 using LIDAR elevations in relation to the FEMA overlay maps.

- Two small area of floodplain encroachment in future phases will occur on the trail section near Basins K and M filling 23.4 cubic yards of floodplain.
- Excavation south of lot 124 will provide 55 cubic yards of floodplain mitigation volumes.

Erosion and Sediment Controls (Rule E)

- 1) Erosion and sediment controls **meet** the Commission's requirements.

Recommendation: Approval contingent upon:

- Final grading plans on Phase 1B must comply with the Commission's low floor/100-year elevation requirements per Rule D 3i (7) criteria.
- Storm pipe inlets FES 205 and 212 on basins H and I, and FES 304 on Basin K must be extended to the NWL of the basin.

On Behalf of Barr Engineering
Advisor to the Commission



James C. Kujawa
Surface Water Solutions LLC

December 22, 2020
Date

Attachments

- Figure 1 Location Maps
Figure 2 2018 Aerial Photograph
Figure 3 Phasing and Overall Plan

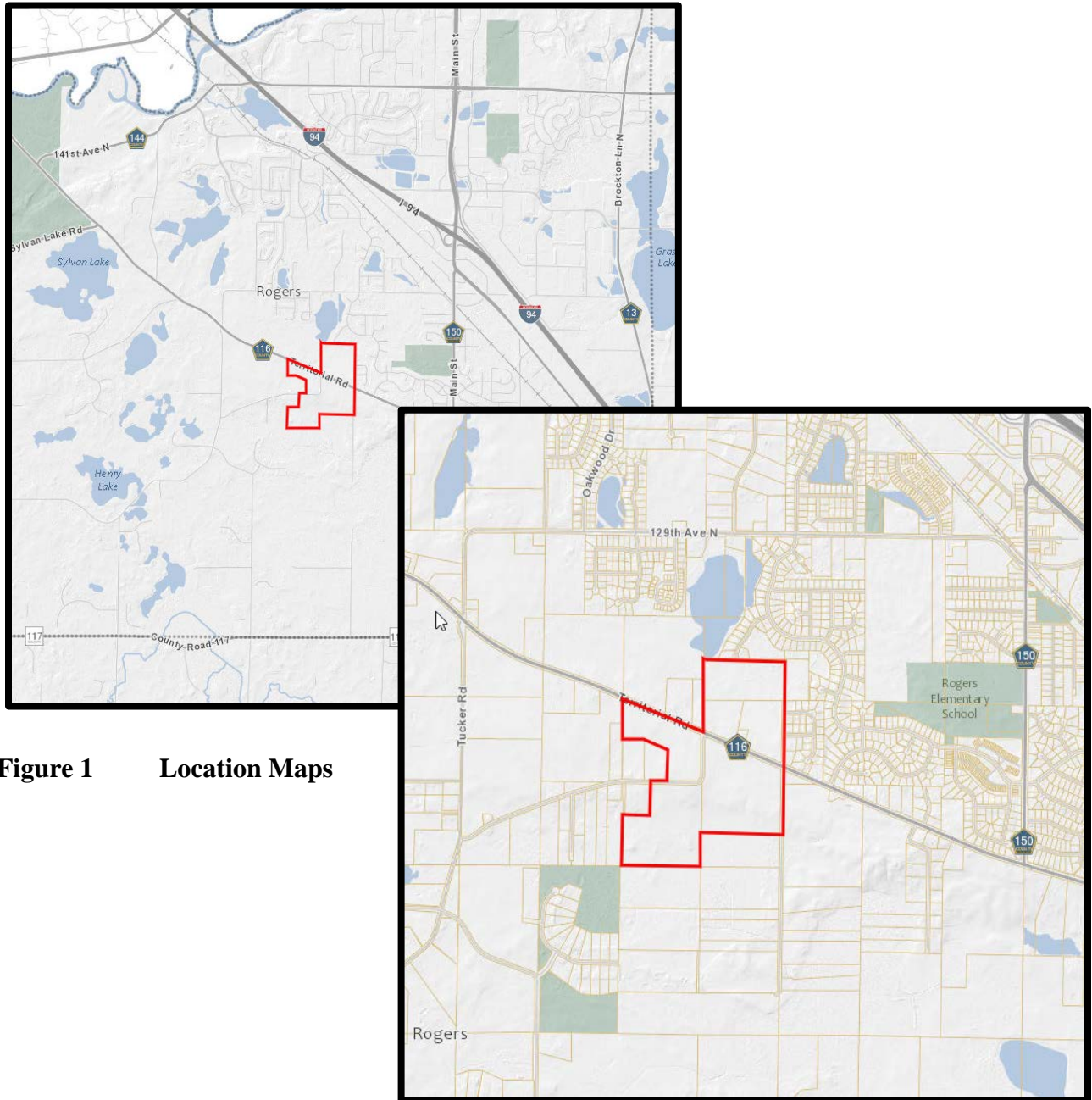


Figure 1 **Location Maps**

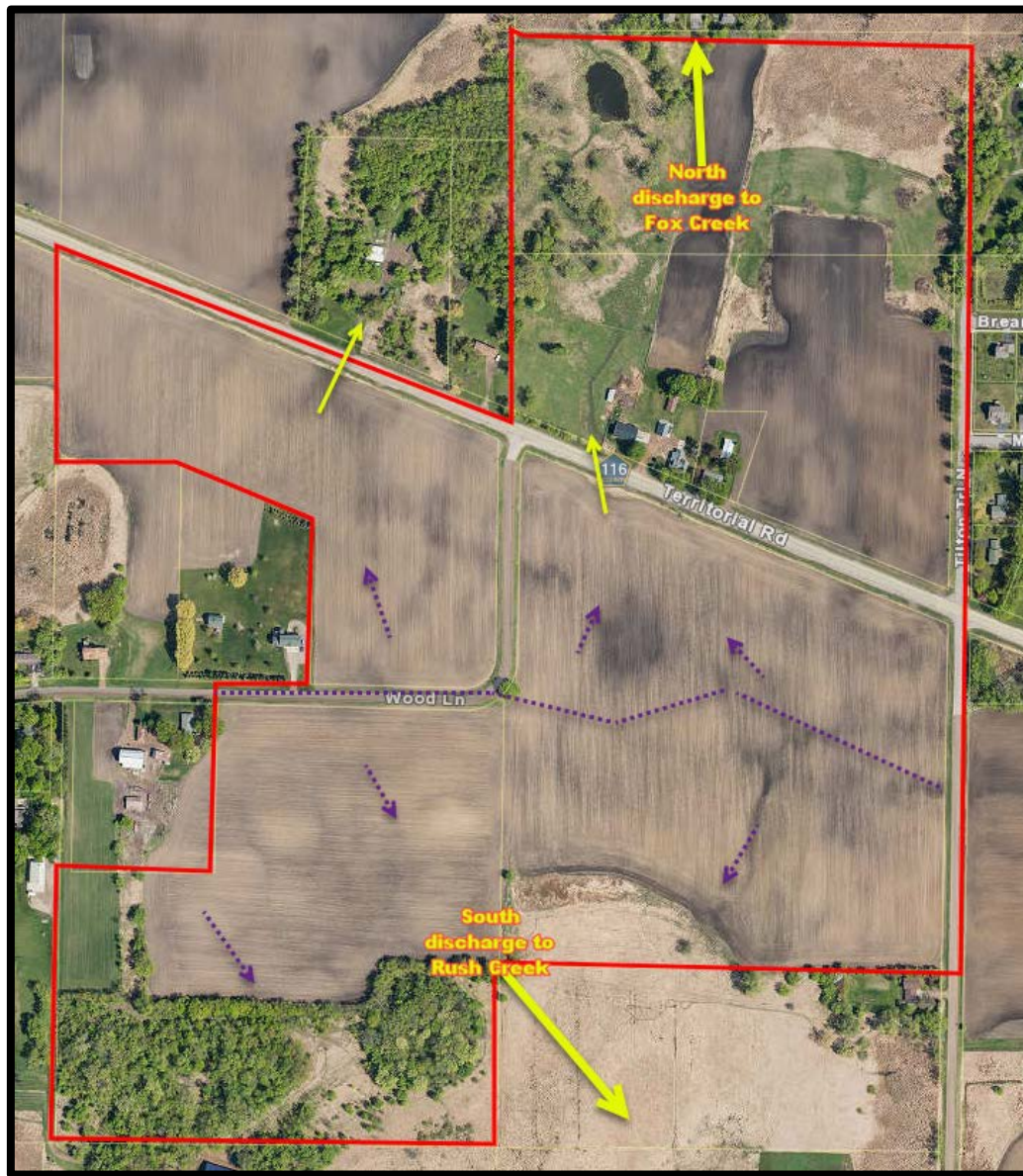


Figure 2 2018 Aerial Photograph

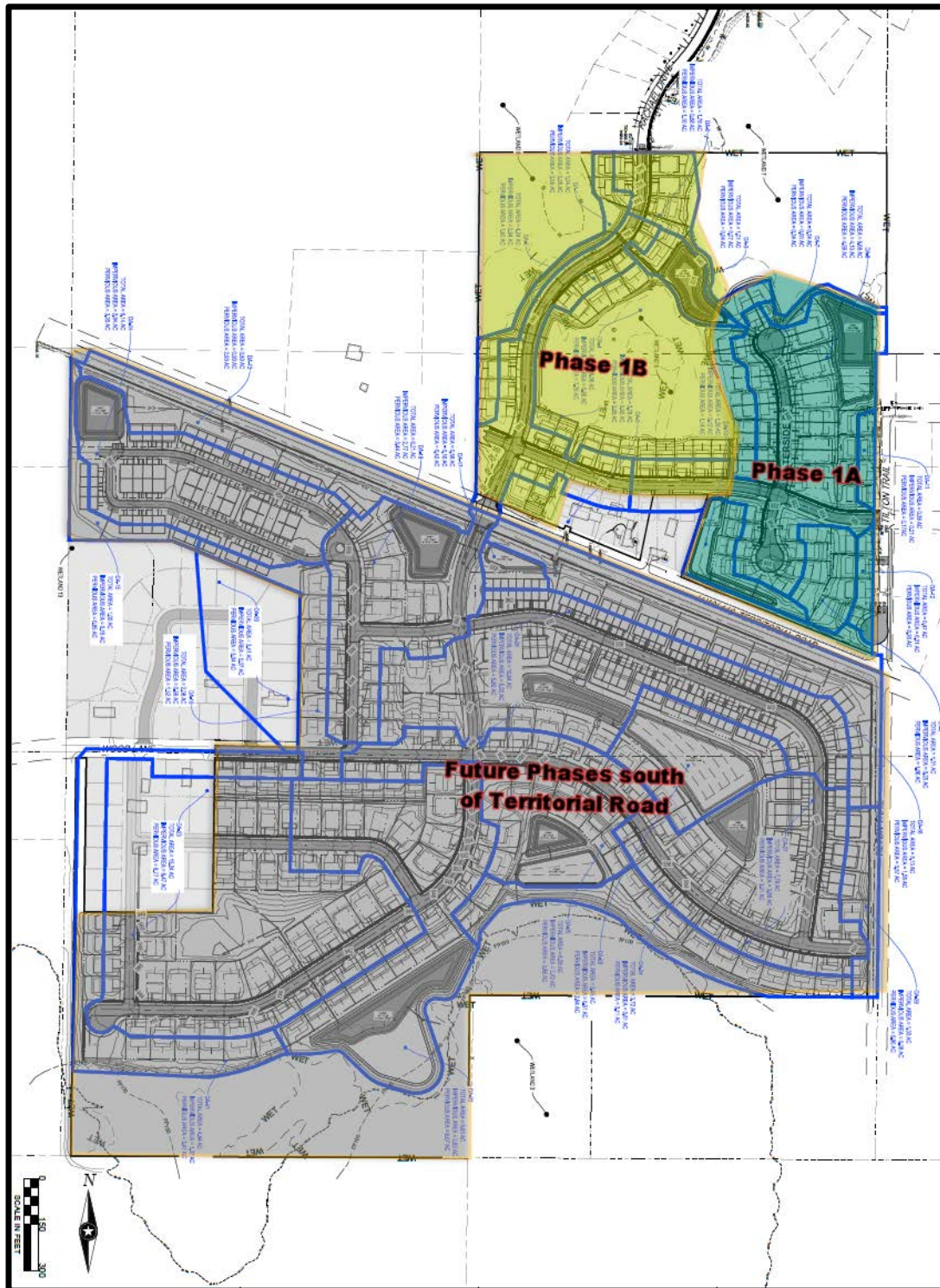


Figure 3 Overall Lot Layout

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jherbert@barr.com

Balsam Pointe City of Dayton Project #2020-036

Project Overview:

Location: Dayton, MN along Balsam Lane and South Diamond Lake Rd.
Purpose: Balsam Pointe is a proposed housing development on Balsam Lane and South Diamond Lake Road in Dayton, Minnesota. The development would create 98 townhouse style units. The site drains to an existing regional basin that was constructed as the regional treatment facility for the adjacent parcels to meet water quality and rate control. The project site is approximately 10 acres. The total impervious area proposed to be constructed on site is 5.28 acres.

WMC Rules	X	Rule D	Stormwater Management
Triggered:	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
		Rule G	Wetland Alteration
		Rule H	Bridge and Culvert Crossings
		Rule I	Buffer Strips

Applicant: Diamond Pointe LLC

Address: 13432 Hanson Blvd
Andover, MN 55304

Attention: Nathan Fair

Phone: 763-569-5663

Email: Nathanfair@edinarealty.com

Agent: Sathre-Bergquist Inc

Address: 150 Broadway Ave S
Wayzata, MN 55391

Attention: Tom Welshinger

Phone: 952-476-6000

Email: twelshinger@sathre.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	12/10/2020
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	11/24/2020
	<input checked="" type="checkbox"/> City authorization: Dayton, MN	11/23/2020
	<input checked="" type="checkbox"/> Review fee: \$2,500	11/23/2020
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	11/24/2020

Submittals

1. Storm Water Management Plan, prepared by AE2S dated September 22, 2020 (revised December 8, 2020)
 - a. Stormwater Requirements Summary
 - b. Stormwater Management Analysis and Results
 - c. Existing and proposed drainage areas
 - d. Web Soil Survey Report
 - e. HydroCAD modeling report for existing and proposed conditions

- f. P8 modeling report for existing and proposed conditions
 - g. Geotechnical Analysis conducted by Haugo Geotechnical Services on September 18, 2020
 - h. SHSAM Output Summary
 - i. Regional Stormwater Basin Outlet Control Structure Details
2. Balsam Pointe Preliminary Construction Plan Set (10 sheets) dated August 28, 2020
3. Balsam Pointe Final Construction Plan Set (20 sheets) dated December 4, 2020
4. Bearing Drawings (2 sheets)
5. Balsam Pointe SWPPP (3 sheets) dated December 4, 2020
6. Email response to December 4, 2020 preliminary application comments by permit review staff dated December 10, 2020

Findings

General

1. A complete application was received December 10, 2020. The initial 60-day decision period per MN Statute 15.99 expires February 8, 2021.
2. The site drains to an existing regional stormwater basin constructed for treatment from the three adjacent parcels. The existing site is an open field used for agricultural purposes.
3. The proposed site will consist of the Balsam Pointe 98-unit housing development with a density of 8 units per acre.
4. The development will create 5.28 acres of impervious area on the 10-acre site. Existing and proposed conditions HydroCAD models were created to model rate control. Rates were evaluated downstream of the existing regional basin outlet.
 - a. The existing conditions (full-build) model reflects proposed conditions of the Juettner Parcels (Zachary Villas) and an assumed impervious coverage of 85% for the two remaining parcels yet to be developed.
 - b. The Balsam Pointe site will be approximately 85% impervious. Existing and proposed P8 model outputs are provided for phosphorus and suspended solids requirements.
5. Three infiltration basins will be constructed for volume abstraction and rate control. The small infiltration basins (#2 and #3) receive primarily backyard drainage. Infiltration Basin #1 receives all stormsewer drainage from the site and discharges to the north into the existing regional basin.
6. The current wet forebay to the regional basin is proposed to be expanded with a shallow sloped bench designed for infiltration. Work on the forebay and regional basin will fall within the existing drainage easement.
7. There are no Elm Creek Watershed jurisdictional floodplains, wetlands, or stream crossings within the site.

Rule D – Stormwater Management (plans)

General

1. The entire site is 10 acres. The impervious area will increase from 0.0 acres to 5.28 acres (53-percent of site area).
2. The soils on the site are predominantly Hydrologic Soil Group Type A.
3. Soil borings indicate sandy soils.

4. Stormwater will be managed on the site through three infiltration basins and the existing regional basin.

Low Floor Elevations

1. The 100-year flood elevation in the on-site infiltration basins are more than 2.0 feet below the FFE of the proposed buildings.

Water Quality Controls

1. Plans **meet** the Commission's requirements for abstraction.
2. Water quality and volume loads are estimated using P8.
3. Post-development total suspended solids (TSS) and total phosphorous (TP) loads will be less than pre-development loads.
4. Table 1 summarizes TP and TSS from this site before and after development.

Table 1 Water Quality Summary

Condition	TP Load (lbs/year)	TSS Load (lbs/year)	Abstraction (cubic feet) ⁽¹⁾
Pre-development (baseline) ⁽²⁾	0.1	42.7	0
Post-development without BMPs	7.8	2,415	0
Post-development with BMPs	0.1	26	34,300
Net Change	0.0	-16.7	+34,300
Post-development Load Reduction	0%	39%	--

(1) 5.28 acres of new impervious.

(2) Water quality modeling includes the three on-site infiltration basins only. Treatment provided by the existing regional pond was not included.

Rate Controls

1. Rate control for the site was provided by the three on-site infiltration basins, the wet forebay with infiltration bench, and the regional pond.
2. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events which are summarized in Table 2.

Table 2 Rate of Discharge Leaving Site – Balsam Pointe

Condition	Area (acres)	2-year (cfs)	10-year (cfs)	100-year (cfs)
Existing (full-build)	10.0	0.0	0.2	11.5
Proposed	10.0	0.0	0.1	11.1

Abstraction Controls

1. Plans **meet** the Commission's requirements for abstraction controls.
2. New impervious areas will be 5.28 acres requiring 21,083 cubic feet of abstraction.

3. The Applicant proposes using three infiltration systems, sumped SAFL Baffle catch basins, and disconnected impervious to meet the abstraction requirement.
4. A P8 model output was provided to show that 80% TSS and 60% TP reduction was provided.
5. Pretreatment is provided by sumped SAFL Baffle structures and overland flow on pervious areas before stormwater discharges to the infiltration systems.
6. Table 1 summarizes abstraction volumes and treatment provided for this site.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** the Commission's requirements for erosion and sediment control.
2. The erosion and sediment control plan is consistent with current best management practices.

Recommendations

☐ None ☒ Approve with Conditions ☐ Approve ☐ Deny

Conditions for Approval

1. Document plan for operation and maintenance of stormwater features.
 - a. Option 1: City of Dayton agrees to maintain the stormwater features
 - b. Option 2: An operation and maintenance agreement for the stormwater management features must be created and approved by the City and ECWMC. Agreement must be recorded on the property title with a copy of the recorded document provided to the ECWMC.

Joseph J. Waln, PE
Barr Engineering Co.
Advisor to the Commission

January 5, 2021
Date

Attachments

Figure 1	Site Location Map
Figure 2	Aerial Imagery
Figure 3	Existing Drainage Pattern Map
Figure 4	Proposed Drainage Pattern Map
Figure 5	Stormwater Drainage Plan

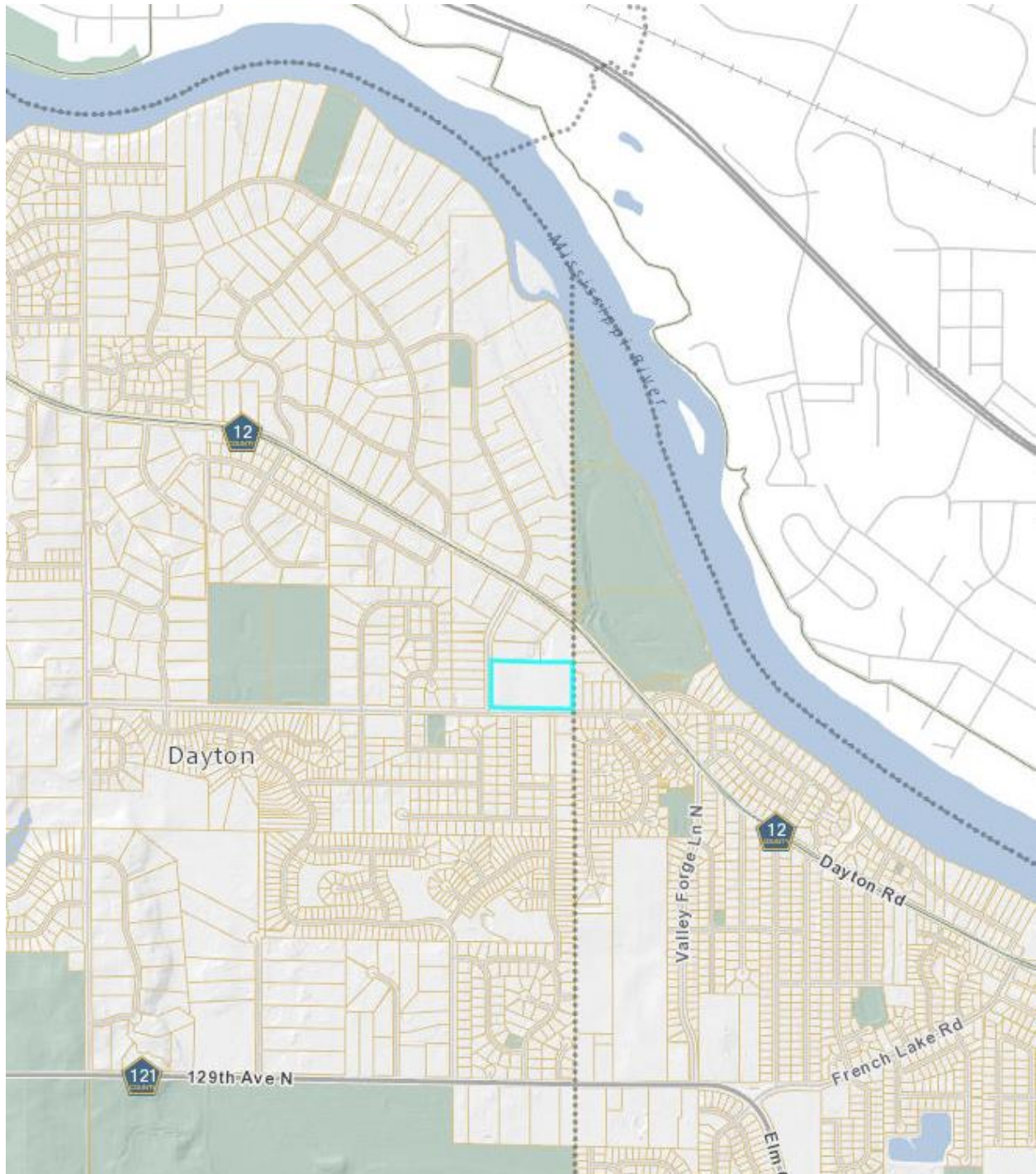


Figure 1 Site Location Map



Figure 2 Aerial Imagery

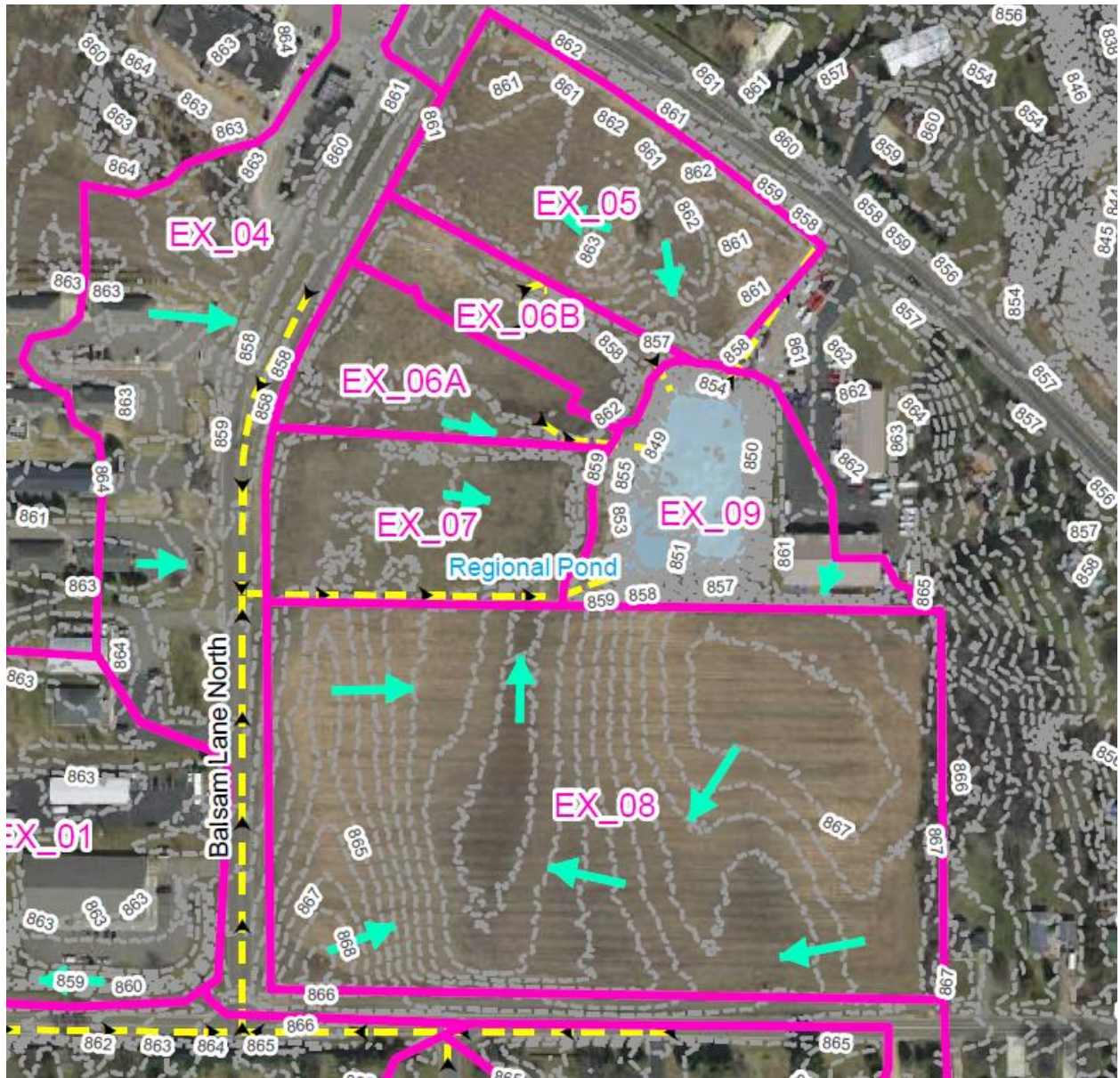


Figure 3 Existing Drainage Pattern Map

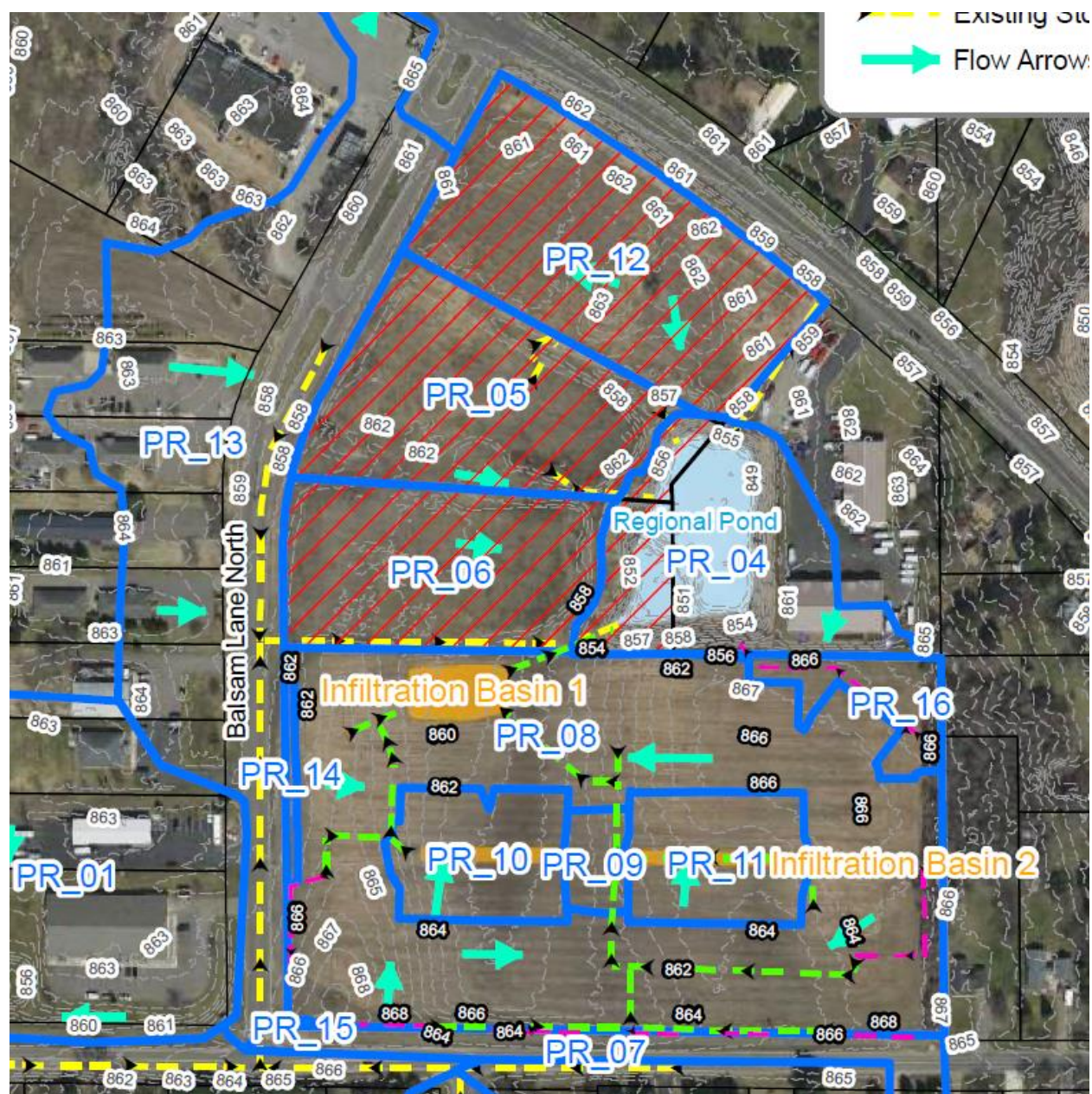


Figure 4 Proposed Drainage Pattern Map

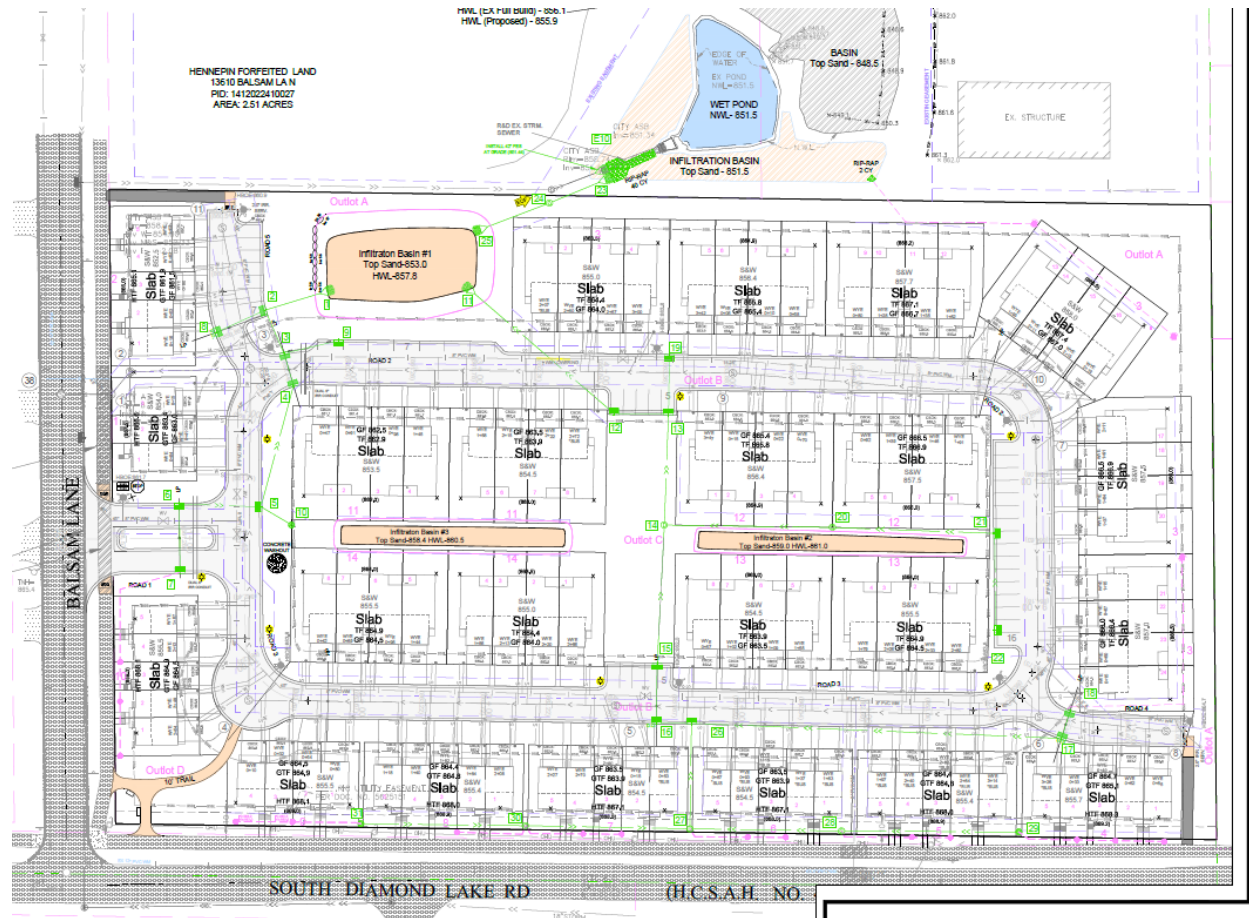


Figure 5 Stormwater Drainage Plan

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jherbert@barr.com

Rice Lake Elementary School Addition City of Maple Grove Project #2020-037

Project Overview:

Location: Maple Grove, MN along Elm Creek Boulevard N and 89th Avenue N.
Purpose: The proposed improvements at the Rice Lake Elementary School include construction of two new buildings, a bituminous parking lot, soft and hardscape play surfaces, and site utilities. The site generally drains east to west to an existing storm sewer system at Rice Lake Road. A filtration basin at the southwest corner of the site will provide treatment and rate control. The total area for stormwater features is approximately 9.18 acres. The project will disturb 4.72 acres. The project will create 1.07 acres of new impervious area.

WMC Rules	X	Rule D	Stormwater Management
Triggered:	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
		Rule G	Wetland Alteration
		Rule H	Bridge and Culvert Crossings
		Rule I	Buffer Strips

Applicant: ISD 279, Osseo Area Schools

Address: 11200 93rd Avenue NW
Maple Grove, MN 55369

Attention: Dale Carlstrom

Phone: 763-391-7000

Email: carlstromd@district279.org

Agent: BKBM Engineers

Address: 6120 Earle Brown Drive, Suite 700
Minneapolis, MN 55430

Attention: Rachel Gilbert

Phone: 763-843-0420

Email: rgilbert@bkbm.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	12/16/2020
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	12/2/2020
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	11/25/2020
	<input checked="" type="checkbox"/> Review fee: \$1,232	12/2/2020
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	12/16/2020

Submittals

1. Storm Water Management Plan, prepared by BKBM dated November 12, 2020 (revised December 16, 2020)
 - a. Stormwater Management Analysis and Results
 - b. HydroCAD modeling report for existing and proposed conditions
 - c. MIDs modeling report for existing and proposed conditions
2. Rice Lake Elementary School Geotechnical Evaluation Report conducted by Braun Intertec dated November 4, 2020

3. Rice Lake Elementary School Addition Preliminary Construction Plan Set (12 sheets) dated November 24, 2020
4. Rice Lake Elementary School Addition Final Construction Plan Set (10 sheets) dated December 16, 2020
5. Rice Lake Elementary School Addition Preliminary Landscaping Plan Set (4 sheets) dated December 16, 2020
6. Electronic MIDs models for existing and proposed conditions provided on December 16, 2020
7. Response to December 2, 2020 preliminary application comments by permit review staff dated December 16, 2020
8. Rice Lake Elementary School Geotechnical Evaluation Report conducted by Braun Intertec dated December 9, 2020

Findings

General

1. A complete application was received December 16, 2020. The initial 60-day decision period per MN Statute 15.99 expires February 14, 2021.
2. The site generally drains east to west to an existing storm sewer system beneath Rice Lake Road. A small portion of the site drains to the east to storm sewer along Elm Creek Boulevard.
3. The proposed improvements at the Rice Lake Elementary School include construction of two new buildings, a bituminous parking lot, soft and hardscape play surfaces, and site utilities.
4. The development will create or reconstruct 1.78 acres of impervious area on the 9.18-acre site. Existing and proposed conditions HydroCAD models were created to model rate control.
5. One filtration basin will be constructed for treatment and rate control. The basin receives all drainage from the site with the exception of 0.46 acres of undisturbed area that discharges to the east into existing storm sewer along Elm Creek Boulevard N.
6. Because soil borings indicate clay soils throughout the site and beneath the proposed basin footprint, drain tile will be placed beneath the filtration basin media to convey treated discharge to the existing storm sewer along Rice Lake Road. Overflow from the basin will be conveyed through a flared end into the existing 18" storm sewer.
7. There are no Elm Creek Watershed jurisdictional floodplains, wetlands, or stream crossings within the site.

Rule D – Stormwater Management (plans)

General

1. The entire site is 9.18 acres. The new impervious area will be 1.07 acres.
2. The soils on the site are predominantly Hydrologic Soil Group Type D.
3. Soil borings indicate clay soils.
4. Stormwater will be managed on the site through one filtration basin.

Low Floor Elevations

1. The 100-year flood elevation in the filtration basin is more than 2.0 feet below the FFE of the proposed building.

Water Quality Controls

1. Plans **meet** the Commission's requirements for a restricted site where infiltration is not feasible.
2. Water quality and volume loads are estimated using the MIDs calculator.
3. A MIDs model output was provided to show that post-development total suspended solids (TSS) and total phosphorous (TP) loads will be less than pre-development loads.
4. Table 1 summarizes TP and TSS from this site before and after development.

Table 1 Water Quality Summary

Condition	TP Load (lbs/year)	TSS Load (lbs/year)	Filtration (cubic feet) ⁽¹⁾
Pre-development (baseline) ⁽²⁾	5.5	999	0
Post-development without BMPs	6.9	1,246	0
Post-development with BMPs	3.3	721	7325
Net Change	-2.2	-474	+7325

(1) 1.07 acres of new or reconstructed impervious.

(2) Water quality modeling includes one filtration basin.

Rate Controls

1. Rate control measures meet Commission requirements.
2. Rate control for the site was provided by one filtration basin.
3. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events which are summarized in Table 2.

Table 2 Rate of Discharge Leaving Site – Rice Lake Elementary School Addition

Discharge Location	Condition	Area (acres)	2-year (cfs)	10-year (cfs)	100-year (cfs)
Elm Creek Boulevard	Existing	0.6	1.48	2.71	5.53
	Proposed	0.5	1.44	2.40	4.54
Rice Lake Road	Existing	8.6	12.07	22.98	48.55
	Proposed	8.7	1.76	4.46	9.58

Abstraction Controls

1. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible since the site consists of clay soils. The Applicant proposes to use sand filtration to meet abstraction requirements.
2. New impervious areas will be 1.07 acres requiring filtration of 4,273 cubic feet.
3. The Applicant proposes using biofiltration to meet the volume abstraction requirement.
4. Pretreatment is provided by a sumped manhole and before stormwater discharges to the filtration system.

5. Table 1 summarizes abstraction volumes and treatment provided for this site.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** the Commission's requirements for erosion and sediment control.
2. The erosion and sediment control plan is consistent with current best management practices.

Recommendations

☐ None ☐ Approve with Conditions ☒ Approve ☐ Deny

Joseph J. Waln, PE
Barr Engineering Co.
Advisor to the Commission

January 5, 2020
Date

Attachments

Figure 1 Site Location Map
Figure 2 Aerial Imagery
Figure 3 Existing Drainage Pattern Map
Figure 4 Proposed Drainage Pattern Map
Figure 5 Stormwater Drainage Plan

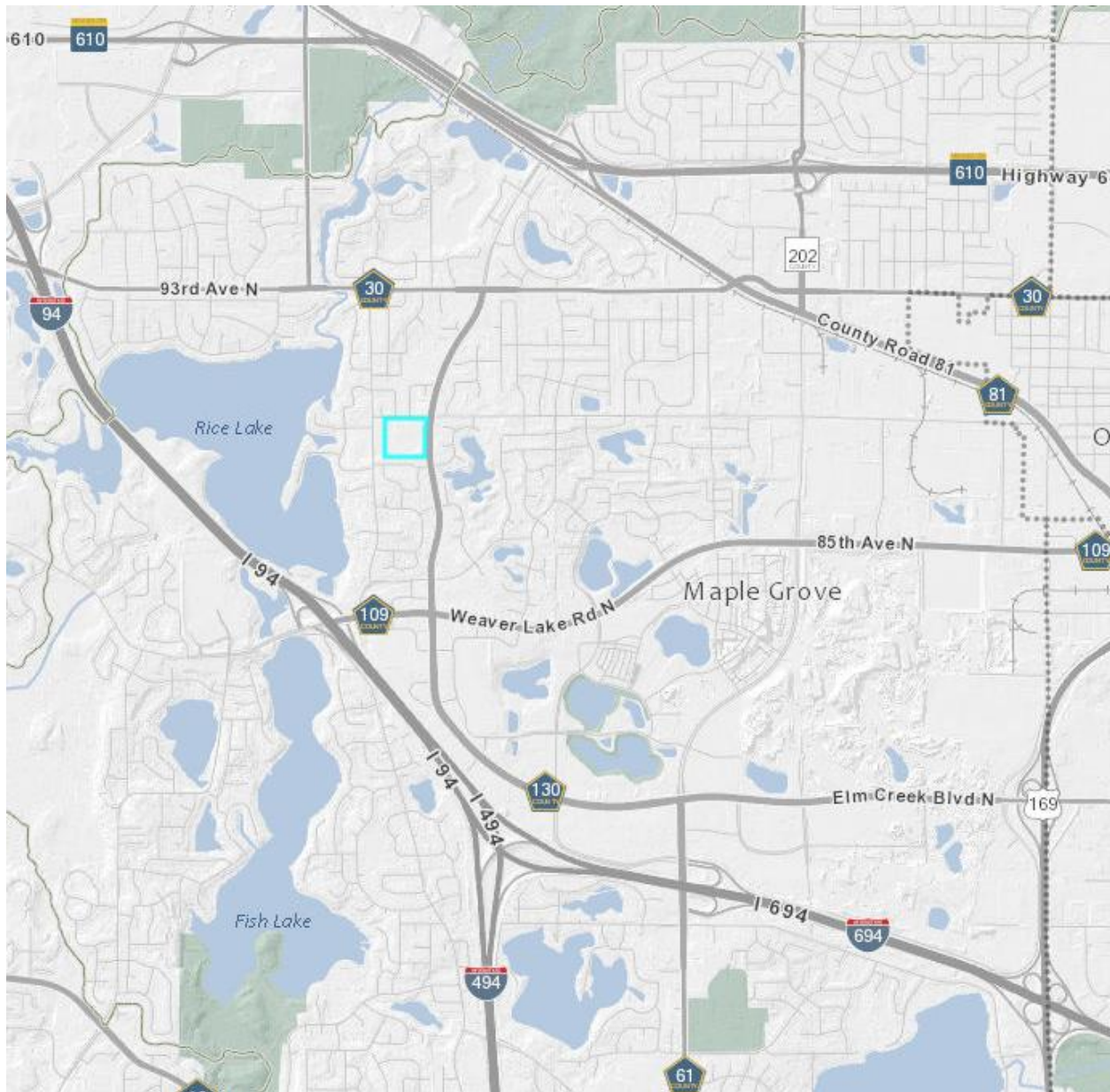


Figure 1 Site Location Map



Figure 2 Aerial Imagery

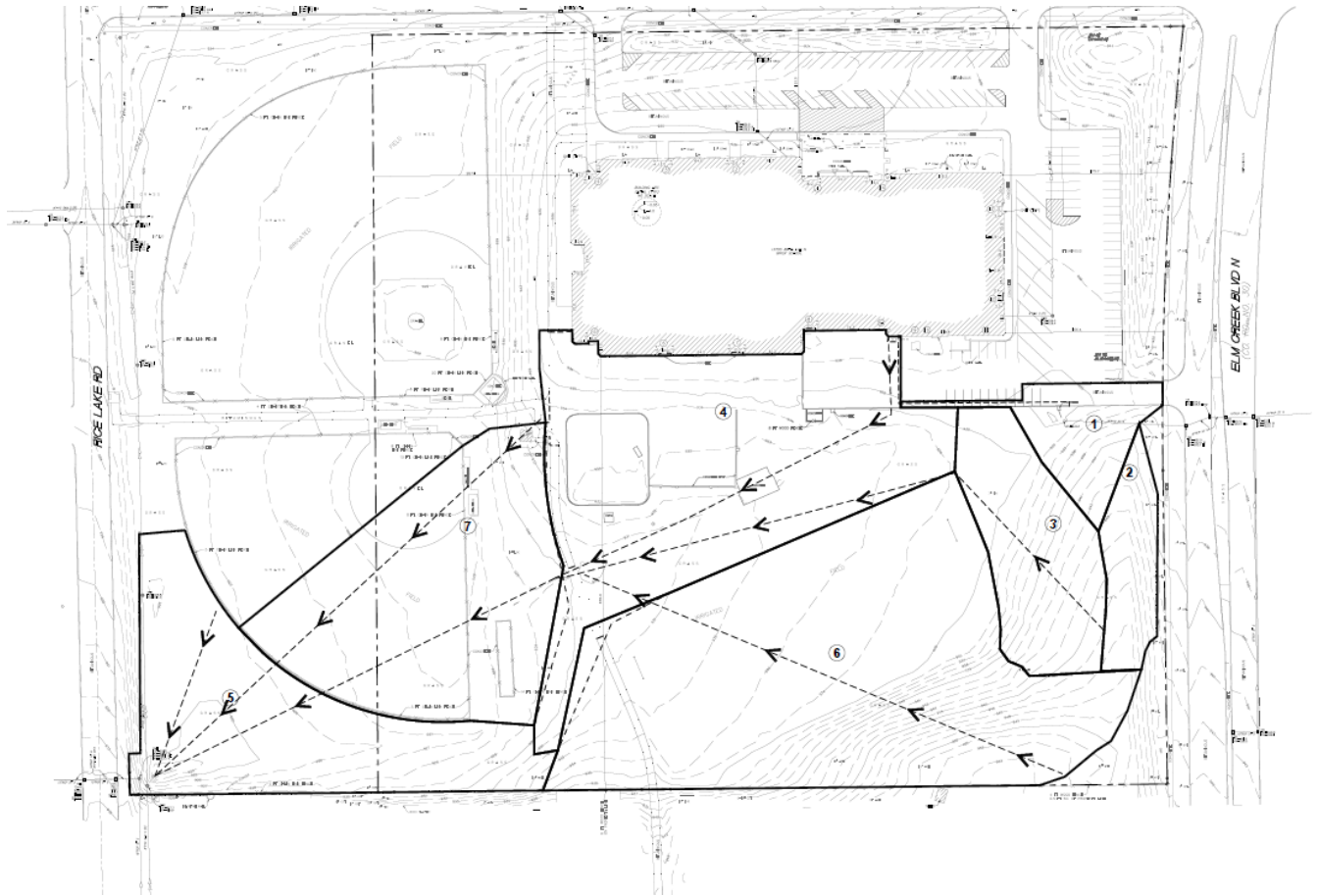


Figure 3 Existing Drainage Pattern Map

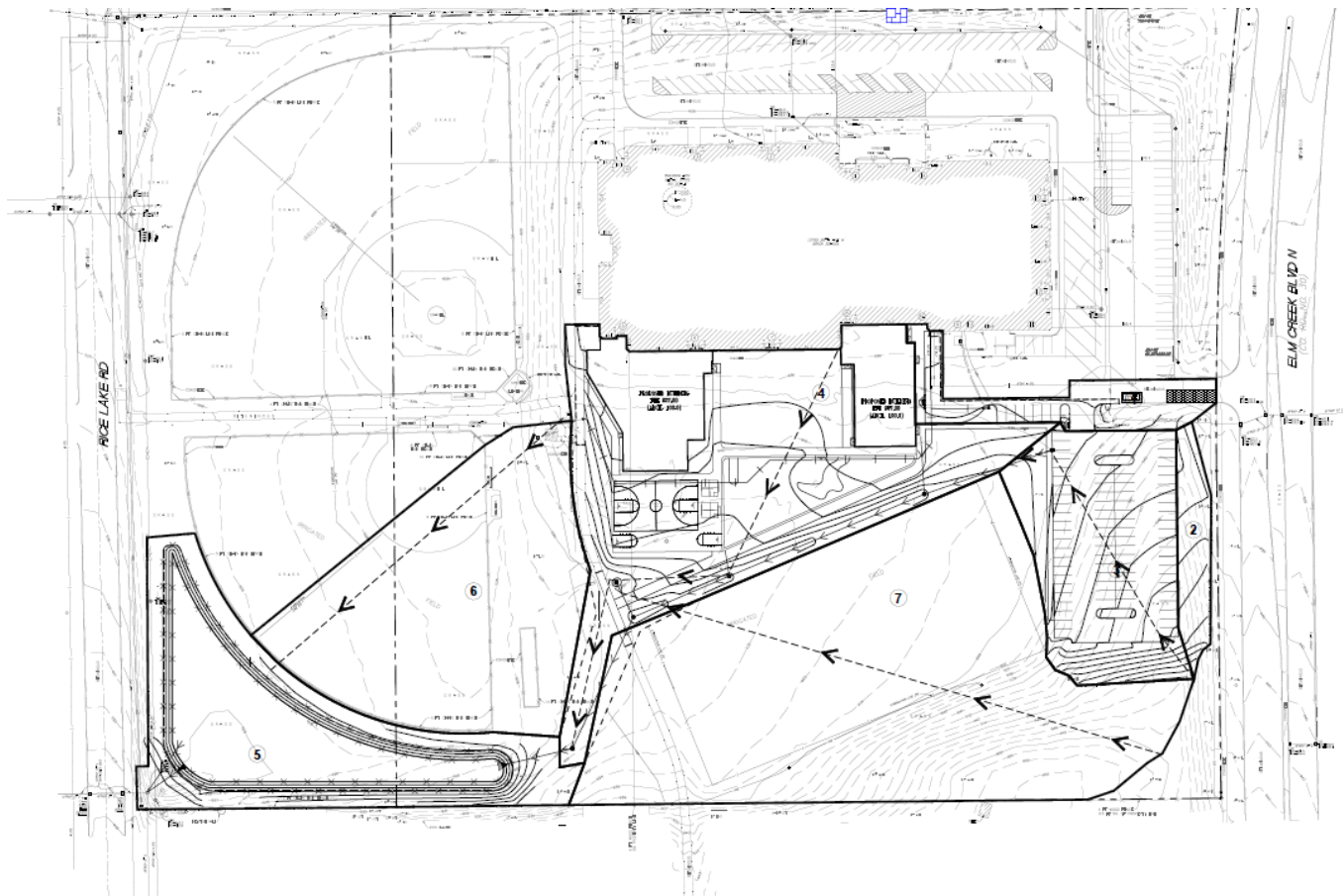


Figure 4 Proposed Drainage Pattern Map

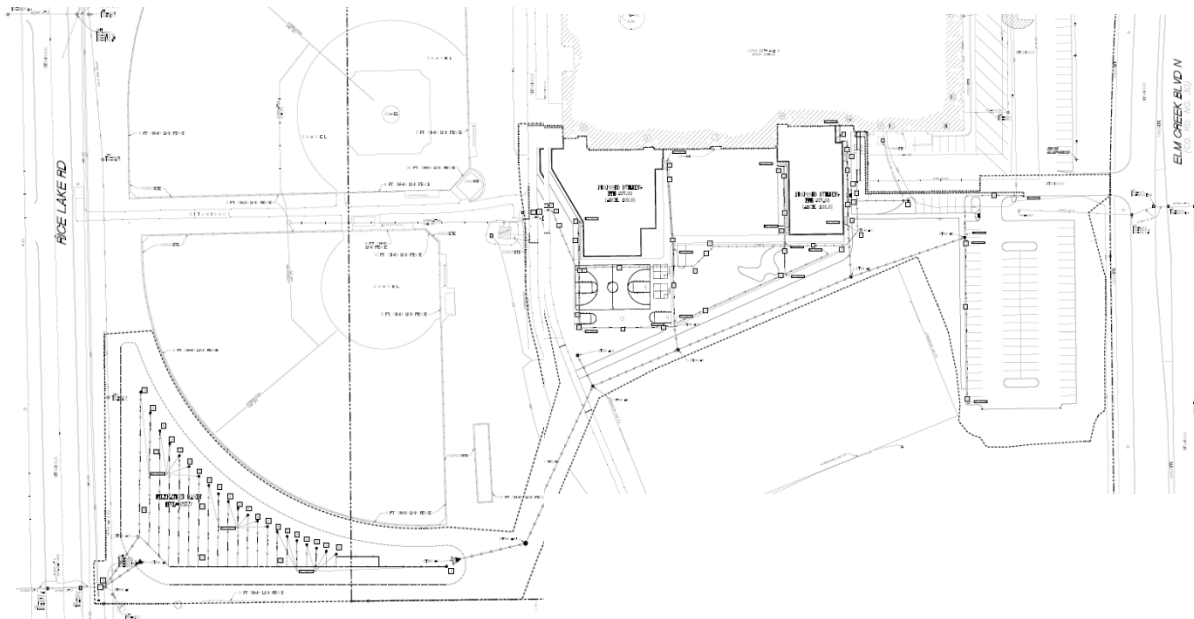


Figure 5 Stormwater Drainage Plan

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jherbert@barr.com

Elm Creekside Trail

City of Plymouth Project #2020-039

Project Overview:

Location: Elm Creek Channel in Plymouth, MN. Northeast of the intersection of MN-55 and Wayzata High School Road

Purpose: The proposed improvements include the construction of a trail between the Creekside Hills neighborhood and Wayzata High School Trail. The trail will include a boardwalk (bridge) crossing of Elm Creek. The total disturbed area is 0.80, with 0.24 acres of disturbed area being new impervious surface.

WMC Rules Triggered:

Rule D	Stormwater Management
X Rule E	Erosion and Sediment Control
X Rule F	Floodplain Alterations
X Rule G	Wetland Alteration
X Rule H	Bridge and Culvert Crossings
X Rule I	Buffer Strips

Applicant: City of Plymouth, MN

Address: 3400 Plymouth Blvd Plymouth, MN 55447-1482

Attention: Ben Scharenbroich

Phone: 763-509-5527

Email: bscharenbroich@plymouthmn.gov

Agent: SRF Consulting Inc.

Address: 3701 Wayzata Boulevard Suite 100
Plymouth, MN 55415-3791

Attention: Samuel Westlund

Phone: 763-452-4815

Email: swestlund@srfconsulting.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	12/10/2020
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	12/10/2020
	<input checked="" type="checkbox"/> City authorization: Plymouth, MN	11/30/2020
	<input checked="" type="checkbox"/> Review fee: \$550	12/10/2020
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	12/30/2020
Submittals		
1.	MPARS Permit dated November 4 2020	12/10/2020
2.	Creekside Hills trail draft plan set dated November 16, 2020 (revised December 30, 2020)	12/10/2020
	a. Site layout and details	
	b. Trail cross sections	
	c. Boardwalk plans	
	d. Stormwater Pollution Prevention Plan.	
3.	Joint application form dated December 1, 2020	12/10/2020

Exhibits:	Description	Date Received
4.	Creekside Hills Trail Crossing Hydraulic Memorandum, drafted by SRF and dated October 27, 2020	12/10/2020
5.	HEC-RAS Hydraulic model, HEC-RAS Standard Table, Floodplain cut/fill calculations, Floodplain cut/fill figure, updated cross sections showing 100-year floodplain.	12/30/2020

Findings

General

1. A complete application was received December 30, 2020. The initial 60-day decision period per MN Statue 15.99 expires February 28, 2021.
2. The proposed improvements include construction of a trail connecting the Creekside Hills neighborhood and the Wayzata High School campus, which includes a boardwalk crossing a section of Elm Creek.
3. The project will disturb 0.80 acres and will create 0.24 acres of new imperious surface. Because less than one acre of total area is disturbed, a stormwater management plan is not required.
4. The boardwalk crossing will have two sets of piers near the edge of the 100-year floodplain.
5. The boardwalk crossing causes a localized increase in the 100-year floodplain of 0.1 feet.
6. There are wetlands adjacent to the site for which the appropriate buffer strips will be provided around the Elm Creek channel and the impacted wetlands.

Rule E – Erosion and Sediment Control (plans)

☒ Meet Requirements ☐ Do NOT Meet Requirements

1. Permanent sediment control includes sodded ditches and trail contouring for proper drainage.
2. Inlet protections include filter bag inserts, a silt fence ring and rock filter berm, and sediment control inlet hats.
3. Construction exits will be controlled with rumble pad over crushed rock or slash mulch.

Rule F – Floodplain Alterations

☒ Meet Requirements ☐ Do NOT Meet Requirements

1. Boardwalk piers and grading for the boardwalk abutments will place 12 cubic yards of fill in the 100-year floodplain. Compensatory storage will be provided adjacent to the boardwalk to offset the proposed fill for the boardwalk.

Rule G – Wetland Alteration

☒ Meet Requirements ☐ Do NOT Meet Requirements

1. No permanent wetland or stream impacts are proposed.
2. The WCA/USACE Joint Application form is included in the submission.

Rule H - Bridge and Culvert Crossings

☒ Meet Requirements ☐ Do NOT Meet Requirements

1. The proposed boardwalk will would retain adequate hydraulic capacity to pass the 100-year flow.

2. There is not a published FEMA 100-year flood profile for this reach of the Elm Creek. Hydraulic modeling by the applicant calculated a 100-year flood elevation of 954.1 immediately upstream of the boardwalk. Proposed conditions modeling indicates that the boardwalk abutments and piers will cause a 0.1-foot increase in the 100-year flood profile immediately upstream of the boardwalk. This is within the 0.5-foot surcharge allowed by the State of Minnesota. The increase in the 100-year flood plain elevation dissipates within several hundred feet of the boardwalk. The increase would not adversely impact flood elevations for structures closest to the channel upstream of the boardwalk crossing.
3. The existing base flow conditions would not be affected by the structure.
4. The crossing would not adversely affect water quality.
5. The proposed crossing provides a responsible approach to connecting the trail on both sides of the creek and minimizes impacts to Elm Creek.
6. The crossing was sized to minimize future erosion, scour, and sedimentation maintenance.


Rule I – Buffer Strips

☒ Meet Requirements ☐ Do NOT Meet Requirements

1. A 50' average buffer is provided for the Elm Creek channel and a 25' average buffer will be provided around the existing wetlands. Minimum buffer lengths are 25' and 10' for the channel and wetlands, respectively.
2. Wetland and buffer strip monumentation already exists from the adjacent residential development.

Recommendation

☐ None ☒ Approve ☐ Approve with Conditions ☐ Deny


Joseph J. Waln, PE
Barr Engineering Co.
Advisor to the Commission

January 7, 2020
Date

Attachments

- | | |
|----------|----------------------------------------------------|
| Figure 1 | Project Location Map |
| Figure 2 | Project Area Map |
| Figure 3 | Aquatic Resource Impacts |
| Figure 4 | Site Plan |
| Figure 5 | Regulatory Floodplain |
| Figure 6 | Floodplain Fill and Compensatory Storage Locations |
| Figure 7 | Bridge Plan and Elevation |

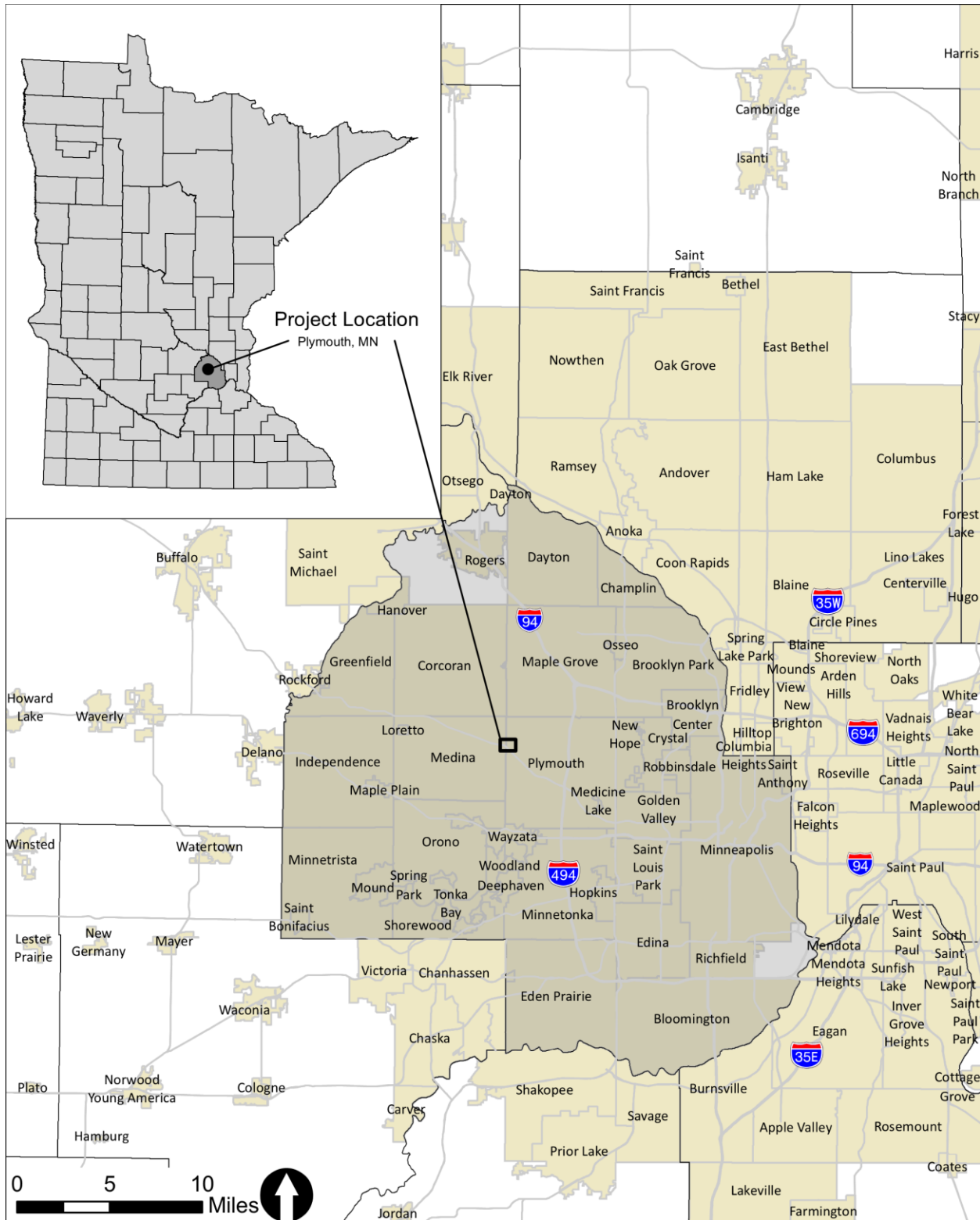


Figure 1 Project Location Map

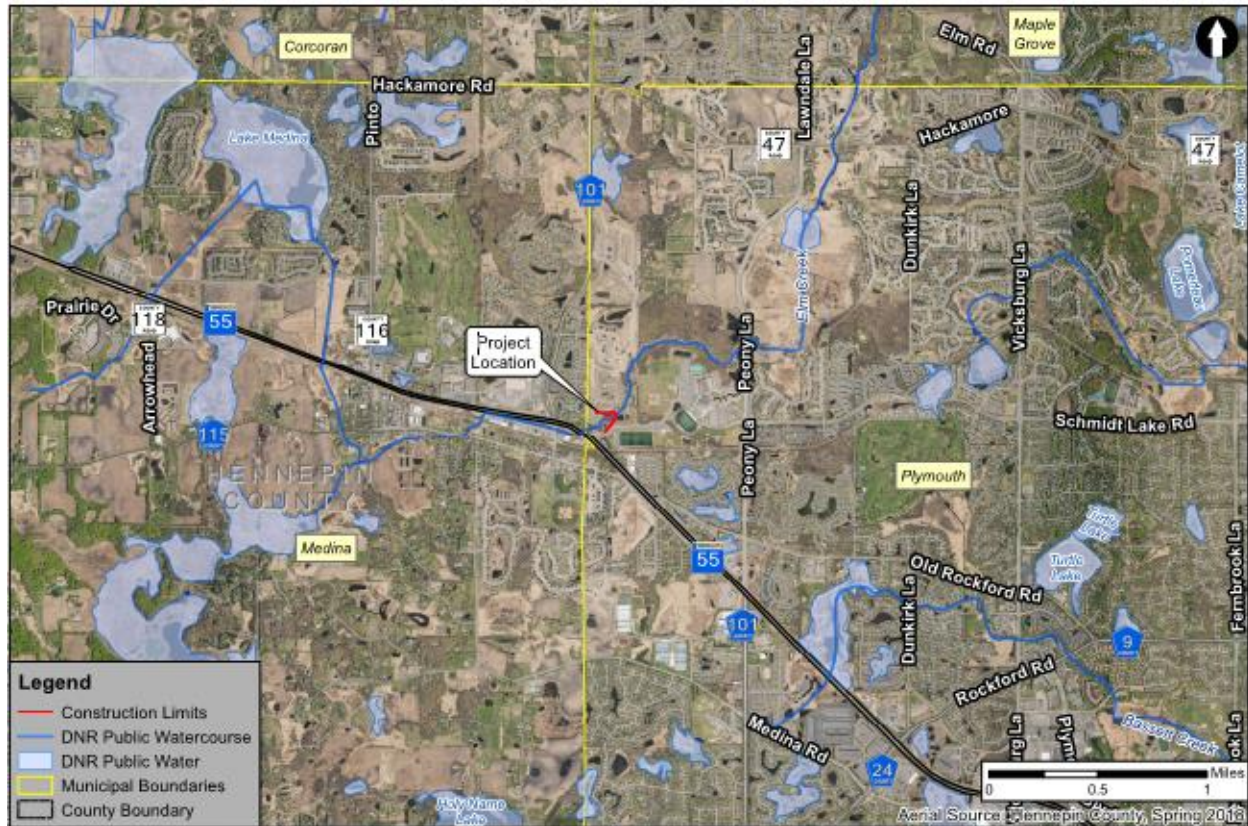




Figure 3 Aquatic Resource Impacts

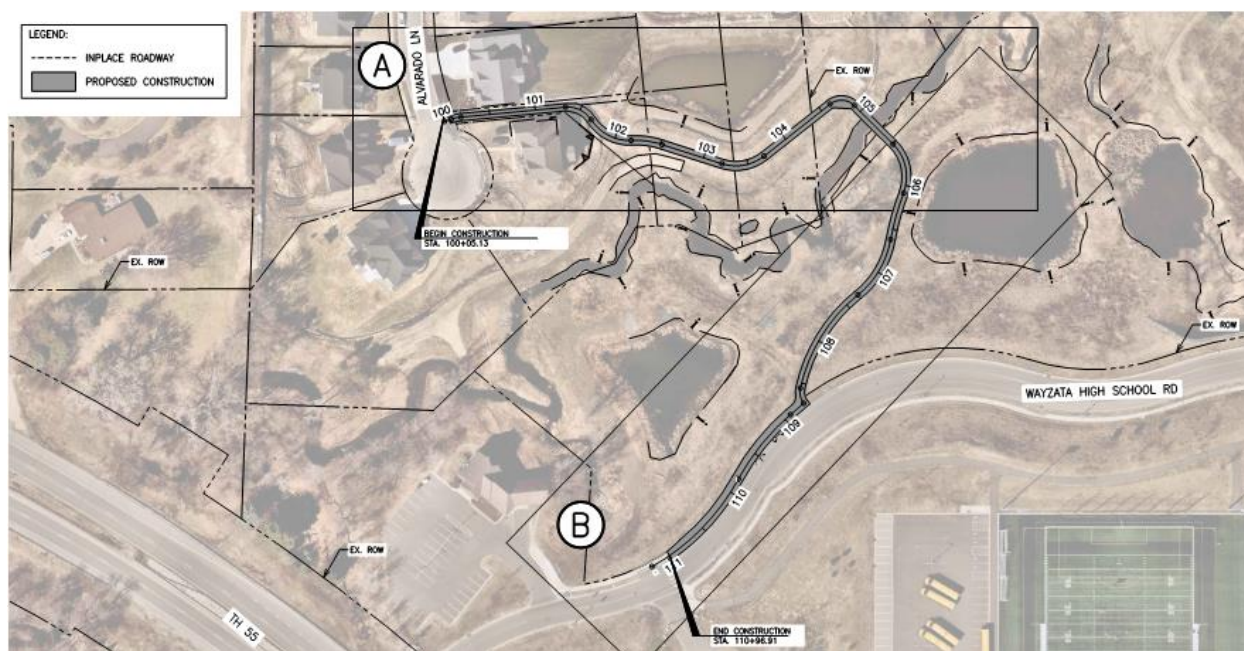


Figure 4 Site Plan



Figure 5 Regulatory Floodplain



Figure 6 Floodplain Fill and Compensatory Storage Locations

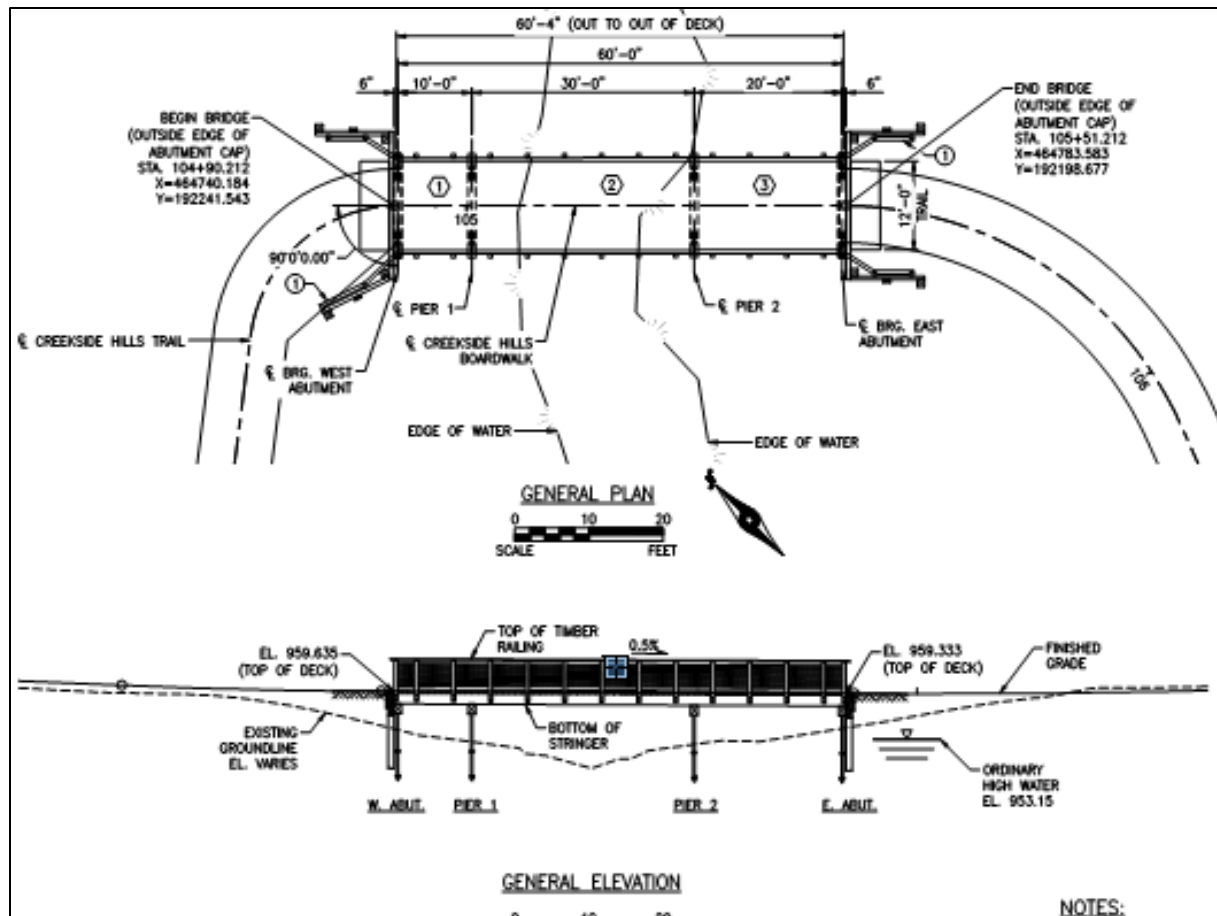


Figure 7 Boardwalk Plan and Elevation

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jherbert@barr.com

The Cedars of Elm Creek 3rd Addition City of Champlin Project #2020-040

Project Overview:

Location: Champlin, MN in the northwest quadrant of W. Hayden Lake Road and Vera Street N.
Purpose: The project would construct two single family residential structures. The site drains to the west into an existing pond in a City-owned parcel. The proposed development involves alteration of the floodplain which will be offset by expansion of the existing pond above the normal water level. Because the area of disturbance is less than 1.0 acre, the stormwater management rule is not triggered.

WMC Rules	Rule D	Stormwater Management
Triggered:	X Rule E	Erosion and Sediment Control
	X Rule F	Floodplain Alterations
	Rule G	Wetland Alteration
	Rule H	Bridge and Culvert Crossings
	Rule I	Buffer Strips

Applicant: Team Fair, Inc.

Address: 13432 Hanson Boulevard
Andover, MN 55304

Attention: Nathan Fair

Phone: 763-438-2561

Email: nathanfair@edinarealty.com

Agent: Sathre-Bergquist, Inc.

Address: 150 Broadway Avenue South
Wayzata, MN 55391

Attention: Mike Vanguilder

Phone: 952-476-6000

Email: mvanguilder@sathre.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	12/17/2020
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	12/14/2020
	<input checked="" type="checkbox"/> City authorization: Champlin, MN	12/9/2020
	<input checked="" type="checkbox"/> Review fee: \$650	12/14/2020
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	12/17/2020

Submittals

1. The Cedars of Elm Creek 3rd Addition Grading and Erosion Control Plan Sheets (2 sheets) dated December 3, 2020 (revised December 17, 2020)
2. Watershed Application Narrative dated December 3, 2020
3. Elm Creek Watershed Management Project Review Fee Schedule and Worksheet received on December 3, 2020
4. Final Plat Narrative dated December 3, 2020
5. The Cedars of Elm Creek 3rd Addition Plat (1 sheet) received on December 17, 2020

6. Email response to December 16, 2020 preliminary application comments by permit review staff dated December 17, 2020

Findings

General

1. A complete application was received December 17, 2020. The initial 60-day decision period per MN Statute 15.99 expires February 15, 2021.
2. The existing site generally drains east to west into an existing pond located within a city-owned parcel.
3. The proposed development includes the construction of two single family residential lots and driveways.
4. Because the project involves less than 1.0 acre of disturbance, the stormwater management rule is not triggered.
5. The project will impact 24,219 cubic feet of floodplain storage which will be mitigated for by expanding the existing pond. The pond will be expanded to create 24,975 cubic feet of floodplain storage above the normal water level of the pond.
6. There are no Elm Creek Watershed jurisdictional wetlands or steam crossings within the site.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** the Commission's requirements for erosion and sediment control.
2. The erosion and sediment control plan is consistent with current best management practices.

Rule F – Floodplain Alterations (plans)

1. Plans **meet** the Commission's requirements for floodplain alteration as shown in Table 1.
2. Low floor elevations are at least 2 feet above the 100-year flood elevation.
3. Plans **DO NOT meet** minimum Minnesota DNR standards for residential development in the flood fringe.
 - a. ACTION REQUIRED – Ground adjacent to the structure should be graded such that the edge of the 100-year floodplain is at least 15-feet away from the edge of a residential structure.

Table 1 Floodplain Alteration Summary

Condition	Removed Floodplain Storage (cubic-feet)	Compensatory Floodplain Storage (cubic-feet)	Difference (cubic-feet)
Above Normal Water Level	-24,219	+24,975	+756
Below Normal Water Level	-25,785	+25,785	0
Total	-50,004	+50,760	+756

Recommendations

☐ None ☒ Approve with Conditions ☐ Approve ☐ Deny

Conditions for Approval

Revise grading to keep 100-year floodplain at least 15 feet away from the edge of residential structures. Applicant is responsible for making any changes required to obtain final approval by the ECWMC, and obtaining grading approvals from the City of Champlin.

Joseph J. Waln, PE
Barr Engineering Co.
Advisor to the Commission

January 5, 2021
Date

Attachments

Figure 1	Site Location Map
Figure 2	Aerial Imagery 2020
Figure 3	Existing Floodplain Map
Figure 4	Grading Plan

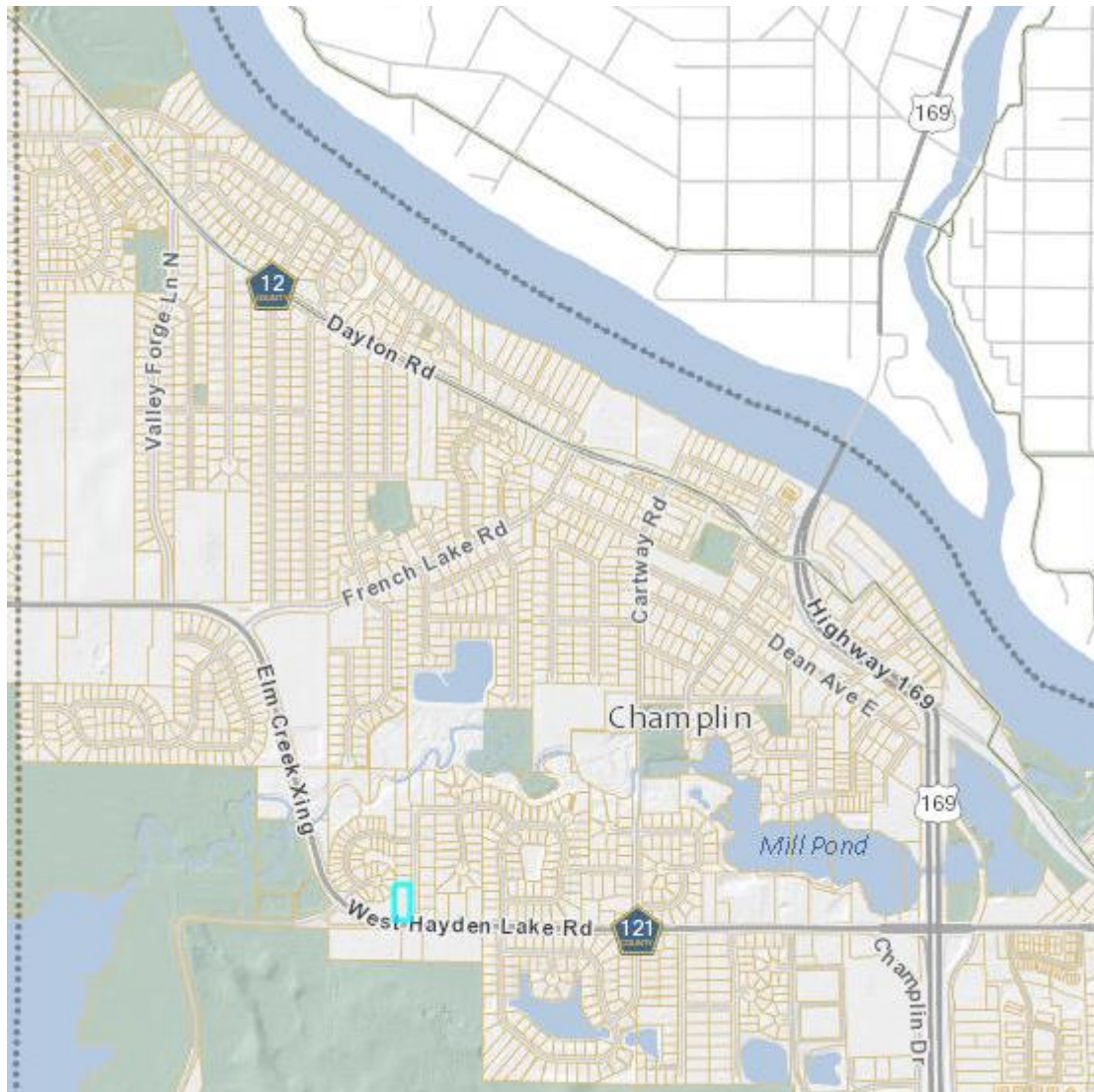


Figure 1 Site Location Map



Figure 2 Aerial Imagery 2020



Figure 3 Floodplain Map

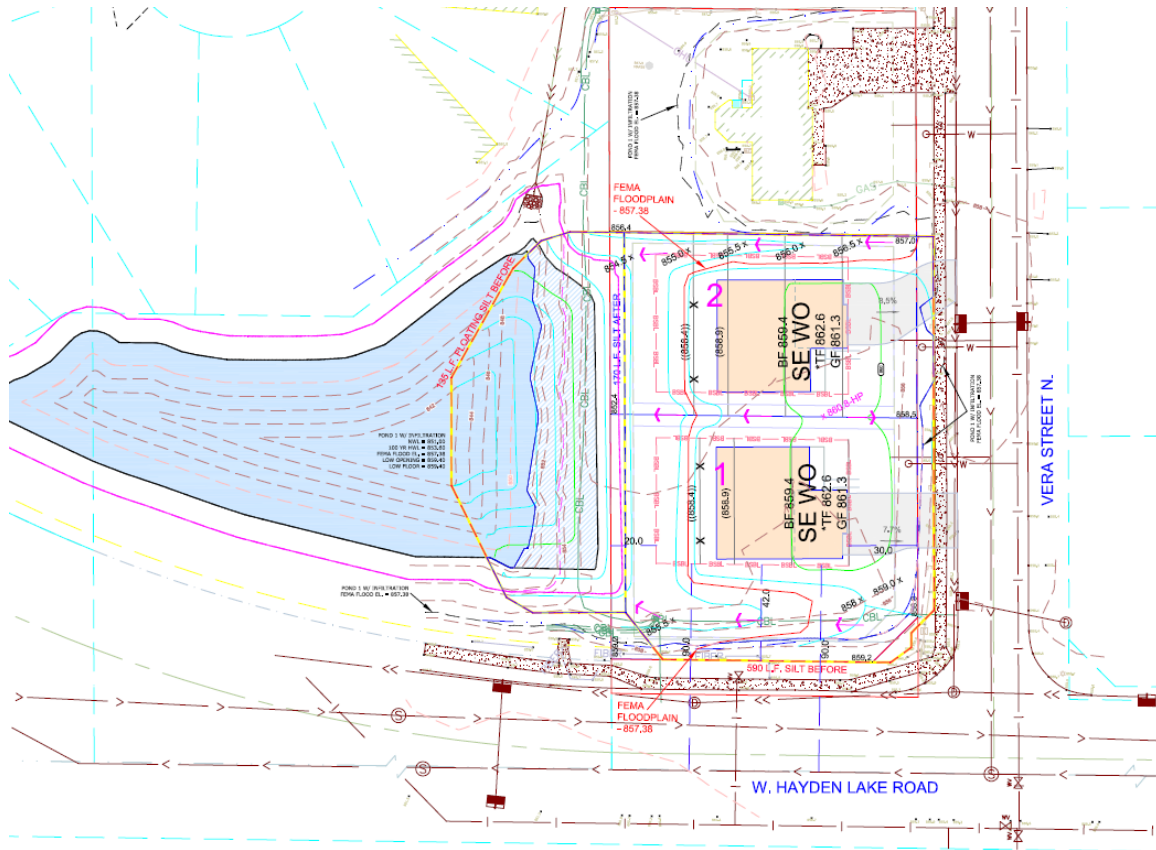


Figure 4 Grading Plan

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jherbert@barr.com

Plum Tree East Drainage Improvements City of Plymouth Project #2020-041

Project Overview:

Location: South east of intersection of Schmidt Lake Rd and Peony Lane North. East of Merrimac Lane North

Purpose: This is a City project that would dredge sediment from an existing stormwater pond, dredge a channel in an existing wetland, and make other related drainage improvements to minimize channel erosion. Total land disturbance for the project is 0.81 acres.

WMC Rules Triggered:

	Rule D	Stormwater Management
X	Rule E	Erosion and Sediment Control
	Rule F	Floodplain Alterations
X	Rule G	Wetland Alteration
	Rule H	Bridge and Culvert Crossings
	Rule I	Buffer Strips

Applicant: Ben Scharenbroich

Address: 3400 Plymouth Blvd
Plymouth, MN 55447

Attention:

Phone: 763-509-5527

Email: bscharenbroich@plymouthmn.gov

Agent: same as applicant

Address:

Attention:

Phone:

Email:

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application <input checked="" type="checkbox"/> ECWMC Request for Review and Approval <input checked="" type="checkbox"/> City authorization: City of Plymouth <input checked="" type="checkbox"/> Review fee: \$150 <input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	12/22/2020
Submittals		
	1. A complete ECWMC Request for Plan Review and Approval and fee of \$150.	12/22/2020
	2. Plans sheets for Plum Tree East Drainage Improvements signed November 13, 2020.	12/22/2020
	3. Addendum No. 1 to Plum Tree East Drainage Improvements, dated December 15, 2020.	12/22/2020

Findings

General

1. A complete application was received December 22, 2020. The initial 60-day decision period per MN Statute 15.99 expires February 20, 2020.
2. The proposed site work will be on Plum Tree East 4th Addition. The project will consist of dredging of an existing stormwater pond and installation of rock grade control structures along a drainage ditch.
3. Land disturbance is less than 1 acre.
4. Work will be adjacent to a wetland.

Rule E – Erosion and Sediment Control (plans)

☒ Meet Requirements ☐ Do NOT Meet Requirements

1. Plans **meet** Commission requirements for erosion and sediment control.
2. Traffic control plan show potential construction access points for completing the work.
3. Area of disturbance appears to be based on grading extents only. More disturbance may be needed for construction access.
4. Project appears to mitigate the potential for future channel erosion issues.

Rule G – Wetland Alteration

☒ Meet Requirements ☐ Do NOT Meet Requirements

1. The City is the LGU for administration of the Wetland Conservation Act (WCA).

Recommendation

☒ Approve

Commission staff grant administrative approval of this application because it involves less than 1 acre of disturbance.

Joseph J. Waln, PE
Barr Engineering Co.
Advisor to the Commission

January 7, 2021
Date

Attachments

- | | |
|----------|---------------------|
| Figure 1 | Site Location Map |
| Figure 2 | Aerial Imagery 2020 |
| Figure 3 | Grading Plan |

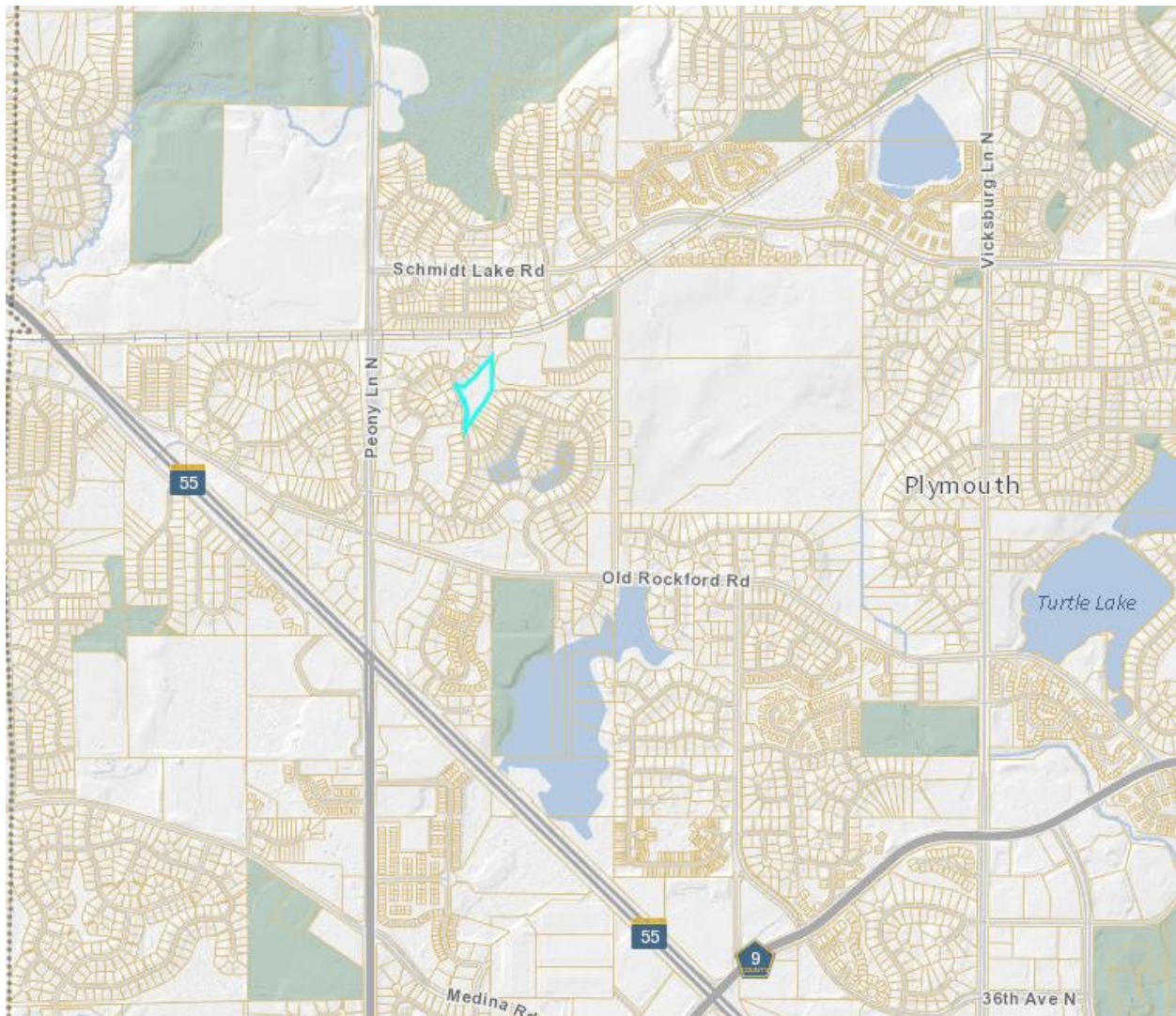


Figure 1 Site Location Map



Figure 2 Aerial Imagery 2020

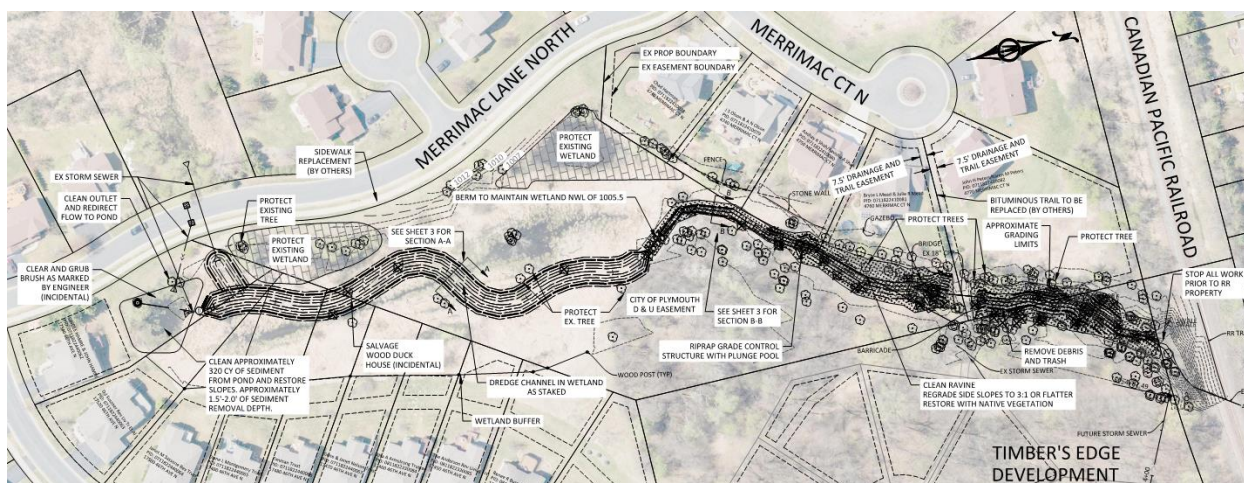


Figure 3 Grading Plan