

elm creek

Watershed Management Commission

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

April 7, 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, April 14, 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

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AGENDA

Regular Meeting – April 14, 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. Approve 2020 Annual Activity Report.*
 - b. Project Reviews. *See item 10 below and Staff Report.**
5. Old Business.
6. New Business.
7. Communications.
 - a. Staff Report.*
 - b. Hennepin County March Staff Report.
 - d. Reminders:
 - 1) Budget Committee meeting in April. Consider 2022 budget at May meeting. Approve by June meeting.
 - 2) PRAP coordinator at May meeting. Review report at July meeting.
 - 3) Accept 2020 Audit Report at June meeting.
 - 4) TAC meeting to review Rules and Standards in June.
8. Education.

WMWA – next meeting is scheduled for May 11, 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.
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ar.				AR	2019-027	Havenwood at Maple Grove.
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ay.				AR	2020-025	Paulsen Farms, Corcoran.
az.				AR	2020-027	Kariniemi Addition, Corcoran.
f.					2020-029	Sundance Greens 5th 6th Addition, Dayton.
ba.				AR	2020-030	Nelson International, Corcoran.
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h.			R		2021-001	Boston Scientific MG Campus, Maple Grove.
i.	A	E			2021-002	Skye Meadows Variance, Rogers.
j.			R		2021-003	Cranberry Ridge, Plymouth.
k.			R		2021-004	Roers Maple Grove Apartments, Maple Grove.
l.					2021-005	WJD Two Third Addition, Rogers.
m.			R		2021-006	Boston Scientific WL3 West Building, Maple Grove
n.	A	E			2021-007	Birchwood 2nd Addition, Rogers
o.	A	E			2021-008	Edgewater 3rd Addition, Rogers
p.	A	E			2021-009	Palisades at Nottingham 3rd Addition, Maple Grove
q.					2021-010	Gleason Fields, Maple Grove
r.		E			2021-011	Graco Building 1, Dayton
s.					2021-012	The Oaks at Bauer Farm, Champlin
T					2021-013	Rush Creek Reserve Phase 1. Corcoran
u.					2021-014	Elm Creek Stream Restoration Phase 4, Champlin

A = Action item E = Enclosure provided I = Informational update will be provided at meeting R PFI - removed pending further information
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11. Other Business.

12. Adjournment.

Z:\Elm Creek\Meetings\Meetings 2021\04 Regular Meeting Agenda.docx

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Regular Meeting Minutes March 10, 2021

I. A virtual meeting of the Elm Creek Watershed Management Commission was called to order at 11:31 a.m., Wednesday, March 10, 2021, by Chair Doug Baines.

Present were: Bill Walraven, Champlin; Ken Guenther, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Catherine Cesnik, Plymouth; Kevin Jullie, Rogers; Joe Waln, Barr Engineering; James Kujawa, Surface Water Solutions; Brian Vlach, Three Rivers Park District (TRPD); Soren Mattick, Campbell-Knutson, PA; and Amy Juntunen and Judie Anderson, JASS.

Also present: Kevin Mattson, Corcoran; Jason Quisberg and Nico Cantarero, Wenck/Stantec, Dayton; Derek Asche and Mark Lahtinen, Maple Grove; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; Kris Guentzel, Hennepin County Environment and Energy (HCEE); and Ross Mullen, Ed Matthiesen and Diane Spector, Wenck/Stantec.

Present for Project Review 2021-002 were: Emily Shaw, Jeremy Foss, and Whitney Behny, ISG, Inc.; Jennifer Edison and Jake Newhall, WSB Engineering; Paul Tabor, Lennar Corporation; and Amy Enga, Rogers.

A. Motion by Walraven, second by Weir to approve the **agenda** as amended. *Motion carried unanimously.*

B. Motion by Weir, second by Walraven to approve the **Minutes*** of the February 10, 2021 regular meeting. *Motion carried unanimously.*

C. Motion by Guenther, second by Walraven to approve the March **Treasurer's Report** and **Claims*** totaling \$30,081.56. *Motion carried unanimously.*

II. Open Forum.

III. Action Items.

A. Hearing no additional nominations, motion by Weir, second by Walraven to elect the following individuals as **officers for 2021**: Baines, Chair; Weir, Vice Chair; Walraven, Secretary; and Guenther, Treasurer. *Motion carried unanimously.*

B. Motion by Weir, second by Walraven to approve and authorize the Chair to sign the **Professional Services Agreement** between the Commission and Stantec Consulting Services, Inc. *Motion carried unanimously.*

C. Motion by Walraven, second by Weir to approve and the Chair to sign the **2021 Cooperative Agreement** between the Commission and Hennepin County Environment and Energy Department. *Motion carried unanimously.* The agreement is in the not-to-exceed amount of \$123,050. \$10,000 is allotted for technical services, the remainder for the Rush Creek BMP project cost-share.

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

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Regular Meeting Minutes – March 10, 2021

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D. Motion by Weir, second by Cesnik to approve and the Chair to sign Resolution 2021-01 Authorizing the Electronic Storage of Government Records, Electronic Transactions, and Electronic Signatures. Motion carried unanimously.

E. Project Reviews – Boston Scientific, Maple Grove.

1. 2019-024 Boston Scientific Weaver Lake Road, Building 2 East Addition.* Boston Scientific is building an addition on the east side of Building 2 to provide more production and office space for their existing facility. The project includes moving the existing service drive and site utilities on the east side of Building 2 to the east within the Boston Scientific property to create space for the addition. About 1.9 acres of the site will be disturbed and 1.06 acres of impervious surface will be added. This project was reviewed for compliance with Rules D, E, F, and I. At their September 11, 2019 meeting the Commission approved the project contingent upon: (1) a site plan providing the irrigation areas to be irrigated by the new system and (2) an operation and maintenance plan for the irrigation system approved by the City and the Commission and recorded on the land title. The applicant and their engineer have developed overall stormwater management alternatives for this and potential future projects. They are still deciding the best approach to move forward before providing the Commission with final stormwater management plans. Staff made preliminary comments on the draft plans in September and await the final submittal to determine compliance with this project and future expansions. Updated information was received in January 2021 and is being evaluated as part of project 2021-001 in conjunction with the approval conditions on this project.

2. Project Review 2021-001 Boston Scientific Maple Grove Campus.* This project would construct a new access drive and expand an existing parking lot. The Maple Grove campus address is 1 Scimed Place. The application is being reviewed for Rules D and E and includes stormwater management features for this project as well as projects 2019-024 and 2021-006. Combined, the three projects will disturb 29.2 acres and create 4.8 acres of new impervious area. Stormwater requirements would be met with existing ponds modified to provide an iron enhanced sand filter. The irrigation system for project 2019-024 will still be constructed but will not be relied upon to meet Rule D stormwater requirements. Staff recommends approval of this project with three contingencies.

3. Project Review 2021-006 Boston Scientific WL3 West Building.* This project would expand an existing building on the Boston Scientific Maple Grove campus. The project would disturb 5.3 acres and create 0.2 acres of new impervious. The project triggers Rule D and Rule E. Rule D was reviewed under project #2021-001. In their findings dated March 2, 2021, Staff recommended approval of this project contingent on the approval of project #2021-001 for Rule D compliance.

Motion by Walraven, second by Weir to revise approval of project 2019-024 to be unconditional, to approve project 2021-001 with three conditions as cited in Staff findings dated March 2, 2021, and to approve project 2021-006 per the condition cited above. *Motion carried unanimously.*

F. Project Review 2020-033 Weston Woods, Medina.* This project would create 150 residential units on a 135-acre undeveloped site located north of Highway 55 and east of Mohawk Drive. The project will disturb 49.2 acres and create 17.49 acres of impervious area. The deadline for the Commission decision was extended by the applicant to April 3, 2021. Motion by Walraven, second by Weir to approve this project with the four conditions outlined in Staff's findings and recommendations dated March 3, 2021. *Motion carried unanimously.*

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G. Project Review 2021-003 Cranberry Ridge, Plymouth.* This project, located north of Highway 55 and south of Old Rockford Road, would construct an apartment building, parking lot and driveway access off Old Rockford Road. The existing site has two single-family residential structures that will be removed. The project would disturb 2.73 acres and create 1.06 acres of new impervious surface. Stormwater management will be provided with filtration basins. Motion by Trainor, second by Weir to approve this project with no conditions per Staff findings dated March 3, 2021. *Motion carried unanimously.*

H. Project Review 2021-005 WJD Two Thirds Addition, Rogers.* This is a 14.8-acre residential project located on the south side of 137th Avenue North, approximately 400 feet west of Northdale Boulevard. Rachel Development is proposing 56 townhomes and a 134-unit apartment building on the property. The initial site grading and stormwater management were approved by the Commission under projects 2001-017 (WJD) and 2003-003 (The Rogers Retail Centre 2nd Addition). In their findings dated March 3, 2021, Staff recommends approval with two conditions. Motion by Weir, second by Walraven to approve this project per Staff findings. *Motion carried unanimously.*

I. Project Review 2021-002 Skye Meadows Variance, Rogers.* The applicant is proposing to construct a residential development on 130 acres along Territorial Road. The project would create 363 single family residential units, creating 38.73 acres of new impervious areas in seven phases. All phases of the project were initially reviewed under project 2020-016 for stormwater management, erosion controls, floodplain alterations, wetland alterations, and buffer strips. This review, dated March 4, 2021, is for a variance request for lots 1 through 11 regarding the low floor freeboard requirements of the Commission's Rule D. At the February meeting, Staff was directed to develop for consideration at the March meeting a resolution making findings documenting why a variance is justified.

On February 17, 2021, the Technical Advisory Committee convened to develop a set of questions directed to ISG in response to discussion at the Commission's February meeting. Included in the meeting packet were **ISG's February 26, 2021 responses*** to those questions. Also included in the packet was a **presentation* by ISG** depicting the high water level (HWL), low floor elevation (LFE), emergency overflow (EOF) numbers of lots 9-11, adjacent neighborhood home elevations, wetland impacts, street profiles, and economic concerns.

On March 8, 2021, John Enga, a Rogers resident, submitted email questions to the Commission regarding this project. **ISG's responses* to Enga's questions** were also included in the packet.

Following involved discussion, motion by Trainor, second by Jullie to grant the variance as proposed. *Voting aye – Champlin, Dayton, Maple Grove, Medina, and Rogers; voting nay – Corcoran and Plymouth. The motion passed.* Technical, legal and administrative staffs will work with the applicant to craft the variance resolution for approval at the April meeting.

IV. Old Business.

The Elm Creek **Flood Risk Review meeting** has been rescheduled from March 18 to April 13, 2021, from 1:00-3:00.

V. New Business.

All MS4 cities with a Total Maximum Daily Load (TMDL) and Waste Load Allocation (WLA) must submit a **TMDL application** to the Minnesota Pollution Control Agency (MPCA) by April 15, 2021. This application is required and summarizes a city's progress in meeting its WLA for its applicable TMDL. Cities

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will need to identify both public and private Best Management Practices (BMPs) that are within the watershed of impaired water bodies and quantify the pollutant load reduction they are providing. This will be used to determine the city's progress on meeting its TMDL requirements as well as chronicle a compliance schedule. Because many of these BMPs will have gone through a permit review for Elm Creek there is potentially an opportunity for the Commission to provide support in completing this requirement. The Technical Advisory Committee (TAC) will meet to determine if this would be beneficial to member cities and provide a net benefit. It is anticipated this work will be solely composed of reviewing and compiling project review records. *[Friday, March 19, from 1:00 to 3:00 was chosen as the time for this TAC meeting.]*

B. A meeting of the TAC will also be convened to **review discrepancies** between the Commission and member city Rules and Standards.

VI. Communications.

A. Staff Report.* Staff reports provide updates on the development projects currently under review by Staff or awaiting final recordations. The projects listed in the table on page 7 of these minutes are discussed in the March report.

B. Hennepin County March Updates.*

1. HCEE recently posted for a Conservation Specialist who will lead implementation of the **Rush Creek Clean Water Fund (CWF) Implementation Grant**. This individual will be on staff by early April. County staff are working internally to develop an outreach and marketing campaign to seek out landowners to work with this spring and summer.

2. HCEE staff met with Wenck staff to discuss assistance on development of the **Diamond Lake subwatershed assessment (SWA)**. Wenck staff are completing report deliverables and County staff will provide feedback on implementation feasibility. This work will be completed following snowmelt.

3. Jubert Lake Agricultural BMPs. Designs for two projects are finalized and Phase 1 projects along the creek and associated tangential drainage BMPs are going through final edits before being sent to the landowner for final approval and contracting. The County will be engaging contractors to complete Phase 2 designs and permitting for all projects in early spring. Phase 1 project implementation will likely occur this fall with Phase 2 projects commencing in 2022. These projects are on multiple parcels west of Jubert Lake. Design and implementation are being funded through a funding partnership with the Commission, Hennepin County, the State of MN CWF grant, and the parcel landowners.

4. Agricultural Soil Health Initiative. In late February, Hennepin County staff sent mailers to targeted farmers regarding cover crops and other soil health initiatives. County staff will be sharing those materials with the Commission as they become available. Attached to the report were a flyer on the Soil Health Initiative Program and a copy of an invitation letter directed to local landowners.

C. HF1586.*

Included in the packet was correspondence regarding legislation being proposed by State Representative Paul Torkelson regarding funding for a feasibility study to consider merging watershed districts and soil and water conservation districts. Staff will monitor the progress of this proposed legislation.

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D. Reminders.

1. The Budget Committee will meet in April. Commissioners will consider the **2022 budget** at the May meeting. The budget must be approved by the June meeting for transmittal to member cities by July 1, 2021.

2. Commissioners must accept the **2020 Annual Activity Report** at the April meeting with transmittal to BWSR by April 30, 2021.

3. The Performance Review and Assistance Program (**PRAP**) **coordinator** will describe the program at the May meeting. Commissioners will review the resultant report at the July meeting.

4. Commissioners must accept the **2020 Audit Report** at the June meeting with transmittal to the State Auditor by June 30, 2021.

VII. Education and Public Outreach.

A. The **West Metro Water Alliance** (WMWA) met on March 9, 2021, with the primary topic of discussion being education and outreach items in the new NPDES General Permit. A working group of city representatives had previously gone through the permit to list all the education and outreach requirements and identify which could be completed with the help of WMWA. A WMWA subgroup has been formed for each of the areas of concentration listed below. Members will focus on refining proposed deliverables and estimating resources (e.g., design assistance, fabrication, printing) necessary as well as a plan for disseminating the materials.

At the April WMWA meeting these will be combined into a proposal to complete the work using the WMWA Special Projects budget, which had a balance of \$10,700 at the end of 2020. The agreement between the four WMOs in WMWA (Bassett Creek, Elm Creek, Shingle Creek and West Mississippi) requires that Special Projects be approved by the four WMOs before expenditures can be made. This proposal is expected to be submitted to the Commissions for consideration at their May meetings. The goal is to have all the work identified below completed by the end of 2021.

B. Areas of concentration.

1. **Chloride.** Reduction in chloride use is a priority in the latest NPDES permit. Three of the four WMOs also have at least one chloride stream impairment. Potential WMWA work could include:

a. Commercial – Multi Family – Institutional Property Maintenance Guide. Update the guide that already exists, Coordinate with the HCCI project that is developing Winter Maintenance Chloride Management Plan templates for private applicators and property managers

b. Residential brochure - Residential one-page handout / rack card

c. Sample Ordinance?

2. **Pet Waste.** This is an area also called out in the permit for specific actions, including education and outreach. Potential WMWA work could include:

a. Standardized educational signage to put at dog parks

b. One-page handout or brochure for distribution at events and at dog parks

c. Signage near pet waste bag distribution areas in parks and other publicly owned properties?

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d. Sample Ordinance?

3. Training and Materials Library. WMWA's website will become a depository for both education/outreach and training materials. Cities, WMOs, agencies and other interested parties may submit material to the website administrator. The intent is to have a library of educational materials, newsletter articles, social media content, photos, videos, etc., that cities can draw on to meet their education and training needs. This will provide an opportunity, for example, for cities to rotate training videos so employees don't watch the same one every year. The subgroup will also identify gaps where a professional writer or photographer may be hired to prepare additional content.

4. Education and Outreach Plan. Each MS4 is required to develop and maintain an Education and Outreach Plan. One subgroup will revise the WMWA Education and Outreach Plan with an activity that specifically relates to the NPDES General Permit and how WMWA undertakings at a regional level dovetail with locally-focused undertakings at the city level. This will clarify that city actions supplemented by WMWA actions will meet the NPDES education and outreach requirements.


5. The next **West Metro Water Alliance (WMWA)** meeting is a virtual meeting and is scheduled for 8:30 a.m., Tuesday, April 13, 2021. 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**.

VIII. Grant Opportunities and Project Updates.

IX. Other Business.

Adjournment. There being no further business, motion by Walraven, second by Weir to adjourn. *Motion carried unanimously.* The meeting was adjourned at 1:45 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

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j.			R		2020-039	Elm Creek Creekside Hills Trail, Plymouth.
k.			R		2020-040	The Cedars of Elm Creek 3rd Addition, Champlin.
l.			R		2020-042	Rogers High School Athletic Field Replacement, Rogers.
m.	A	E			2021-001	Boston Scientific MG Campus, Maple Grove.
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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

		2021 Budget	Mar 2021	April 2021	2021 Budget YTD
EXPENSES					
Administrative		95,000	8,099.71	9,393.07	27,507.16
Grant Writing		650			0.00
Website		2,000	48.75	32.50	147.55
Legal		2,000	62.00	480.50	542.50
Audit		5,000			0.00
Insurance		3,800	200.00	144.00	344.00
Miscellaneous/Contingency		1,000			0.00
Technical Support - HCEE		12,000			0.00
Floodplain Mapping			7,146.00	7,908.00	23,488.00
Project Review Technical (Job 300)		185,000	10,240.50	13,924.00	32,866.50
Other Technical (Jobs 100 & 200)			2,431.00	4,359.00	11,118.50
Project Reviews - Admin Support		12,000	1,742.08	2,416.43	6,478.44
WCA - Admin					340.60
Stream Monitoring USGS		24,000			0.00
Stream Monitoring TRPD		7,200			0.00
DO Longitudinal Survey		1,000			0.00
Rain Gauge		400	27.42	27.55	83.39
Lakes Monitoring - CAMP		760			0.00
Lakes Monitoring - TRPD					0.00
Sentinel Lakes		8,100			0.00
Additional Lake		2,500			0.00
Aquatic Vegetation Surveys		1,100			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		2,500	26.60	58.31	188.51
WMWA General Activities		5,000			0.00
WMWA Implementation/Watershed Prep		6,500			0.00
Rain Garden Wkshops/Intensive BMPs/Special Proj		3,000			0.00
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			24.70
Plan Amendment		2,000			0.00
Contribution to 4th Gen Plan		10,000			0.00
Transfer to (from) Encumbered Funds (see below)					0.00
Transfer to (from) Capital Projects (see CIP Tr		175,000		38,447.38	38,447.38
Transfer to (from) Cash Sureties (see below)			57.50	775.00	832.50
Transfer to (from) Grants (see below)		125,000	-	-	0.00
To Fund Balance					0.00
TOTAL - Month			30,081.56	77,965.74	142,409.73
TOTAL Paid in 2021, incl late 2020 Expenses		700,510.00	166,254.95	244,220.69	2021 Paid

Elm Creek Watershed Management Commission Treasurer's Report

		2021 Budget	Mar 2021	April 2021	2021 Budget YTD
INCOME					
From Fund Balance					
Floodplain Modeling					
Project Review Fee		100,000	29,025.00		41,175.00
Refund Project Fee					0.00
Water Monitoring - TRPD Co-op Agmt		5,500			0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		15,250	22.07		66.49
Transfer to (from) Capital Projects (see CIP Tr		185,588			0.00
Transfer to (from) Cash Sureties (see below)					0.00
Transfer to (from) Grants (see below)		100,000	-	-	0.00
Misc Income					0.00
Total - Month			29,047.07	0.00	278,541.49
TOTAL Rec'd 2021, incl late 2020 Income		643,638.00	305,529.31	305,529.31	2021 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,307,408.90	1,446,683.26	1,368,717.52	
Cash on Hand			1,446,683.26	1,368,717.52	
CASH SURETIES HELD					Activity 2021
WCA Escrows Received					0.00
WCA Escrow Reduced			57.50	775.00	832.50
Total Cash Sureties Held		0.00	-57.50	-832.50	
RESTRICTED / ENCUMBERED FUNDS					
Restricted for CIPs					0.00
Enc. Studies / Project Identification / SWA					0.00
Total Restricted / Encumbered Funds		0	0.00	0.00	
			Mar 2021	April 2021	2021 Budget YTD
GRANTS					
Fish Lake Alum Trmt Phase 2					
Revenue					-
Expense					-
Balance			-	-	-
BWSR Watershed-based Funding					
Revenue					-
Expense					-
Balance			-	-	-
DNR Floodplain Data					
Revenue					-
Expense					-
Balance			-	-	-
TOTAL GRANTS					
Revenue			-	-	-
Expense			-	-	-
Balance			-	-	-

Elm Creek Watershed Management Commission Treasurer's Report

Claims Presented		General Ledger Account No	March	April	TOTAL
Campbell Knutson - Legal		521000		480.50	868.00
Legal - Proj Rev (Admin) Skye Meadows		578100		387.50	
Connexus - Rain Gauge		551100		27.55	27.55
Barr Engineering					26,966.00
Floodplain Mapping		580440		7,908.00	
Project Review Technical (Job 300)		578050		13,924.00	
Other Technical (Jobs 100 & 200)		578050		4,359.00	
Ravinia Wetland Mitigation		240201		775.00	
City of Champlin -Rain Garden at Independence Ave		563012		38,447.38	38,447.38
Old Republic Surety Co. - Bond		513000		144.00	144.00
JASS					11,512.81
Administration		511000		7,642.74	
TAC Support		511000		129.40	
Annual Reporting/Work Plan		511000		1,588.43	
Website		581000		32.50	
Project Reviews		578100		2,028.93	
Education		590000		58.31	
CIPs General		563001			
Grant Opportunities		511000			
Floodplain Mapping Admin		511000		32.50	
TOTAL CLAIMS					77,965.74

CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

Elm Creek Watershed Management Commission
 c/o Judie A. Anderson, Exec. Secty.
 3235 Fernbrook Lane
 Plymouth MN 55447

Page: 1
 February 28, 2021
 Account # 1448G

SUMMARY STATEMENT

PREVIOUS BALANCE	FEES	EXPENSES	CREDITS	PAYMENTS	BALANCE
1448-0000 RE: GENERAL MATTERS					
SERVICES RENDERED TO DATE:					
62.00	868.00	0.00	0.00	0.00	<u>\$930.00</u>

Amounts due over 30 days will be subject to a finance charge of
 .5% per month (or an annual rate of 6%). Minimum charge - 50 cents.

CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

Elm Creek Watershed Management Commission
c/o Judie A. Anderson, Exec. Secty.
3235 Fernbrook Lane
Plymouth MN 55447

Page: 1
February 28, 2021
Account # 1448-0000G
225

RE: GENERAL MATTERS
SERVICES RENDERED TO DATE:

			HOURS	
02/04/2021	JJJ	Emails Judie, review agenda packet.	0.20	31.00
02/09/2021	JJJ	Emails Judie regarding Engineering Consultancy Agreement.	0.20	31.00
	JJJ	Emails Judie, follow-ups regarding Skye Meadows variance.	0.50	77.50
02/11/2021	JJJ	Follow-up emails Judie regarding Skye variance, telephone call Rogers Public Works Director Septien.	0.50	77.50
02/12/2021	JJJ	Follow-up emails Judie regarding Skye variance.	0.50	77.50
02/17/2021	JJJ	Emails Judie, follow-up emails Jim, Joe, Derek re: Skye variance.	0.50	77.50
02/18/2021	JJJ	Follow-ups re: Skye variance, review draft memos, previous correspondence and documents.	0.50	77.50
02/23/2021	JJJ	Review Wenck/Stantec draft agreements.	1.00	155.00
02/24/2021	JJJ	Work on engineer contract.	1.00	155.00
02/25/2021	JJJ	Follow-up emails and revisions to draft contract with Stantec.	0.70	108.50
		AMOUNT DUE	5.60	868.00
		TOTAL CURRENT WORK	TOTAL DUE	<u>868.00</u>
		PREVIOUS BALANCE <u>PAID</u>		\$62.00 <i>pd</i>
		TOTAL AMOUNT DUE		<u>\$930.00</u>

Amounts due over 30 days will be subject to a finance charge of
.5% per month (or an annual rate of 6%). Minimum charge - 50 cents.



16

Account Number:**481113-238425**

ELM CREEK WATERSHED MGMT ORG

Monthly Statement**Service Address**ELM CREEK RD
DAYTON MN**Billing Summary****Billing Date:** Mar 17, 2021

Previous Balance	\$27.42
Payments - Thank You!	\$27.42
Balance Forward	\$0.00
New Charges	\$27.55

Total Amount Due **\$27.55**

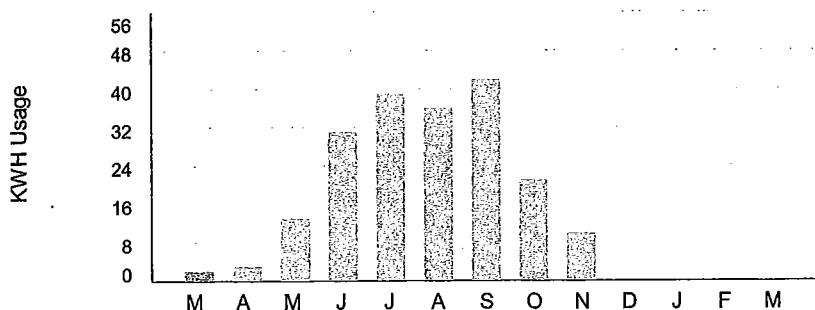
Payment must be received on or before April 13, 2021

Total Amount Due**\$27.55****Due Date****April 13, 2021****Message Center****Annual Meeting**

Watch for your election ballots in the mail in early April. Your mailed packet has details on how to vote online and by mail. All members who vote will be entered into prize drawings. Election results will be announced at the Annual Meeting on April 22.

Your Community, Your Choice

Here's an opportunity to help your favorite local organization. With our monthly "Your Community, Your Choice" online program, you pick the charity that receives a \$1,500 donation from Connexus Energy. Visit us at connexusenergy.com for more information.

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-000123/000261 AGZBK1 S1-ET-M1-C00001 1

**Account Number:****481113-238425****Total Amount Due****\$27.55****Payment Due By****April 13, 2021**

000123 1 MB 0.447 000123/000123/000261 002 02 AGZBK1
 ELM CREEK WATERSHED MGMT ORG
 3235 FERNBROOK LN N
 PLYMOUTH MN 55447-5325

**Connexus Energy**PO Box 1808
Minneapolis, MN 55480-1808

00002755 0004811130238425 000000 00000 000000000000 0000006



INVOICE

17

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

April 6, 2021
Invoice No: 23271759.00 - 17

Total this Invoice	\$7,908.00
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Regarding: Elm Creek Floodplain Mapping

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

- Submitted draft model to the MnDNR
- Submitted draft mapping and spatial data to the MnDNR
- Updated the draft model to incorporate the MnDNR comments on the draft model
- Completed final mapping and spatial data, incorporating MnDNR comments
- Sent final narrative and project deliverables to the MnDNR

Total Contract Budget	Total Prior Billing	Billing this Invoice	Total Billing to Date	Budget Remaining
\$106,945.00	\$99,032.00	\$7,908.00	\$106,940.00	\$5.00

Professional Services from February 20, 2021 to March 31, 2021

Job: 700 Mapping Products

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	33.40	120.00	4,008.00	
	33.40		4,008.00	
Subtotal Labor				4,008.00
			Job Subtotal	\$4,008.00

Job: 800 Narrative

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	32.50	120.00	3,900.00	
	32.50		3,900.00	
Subtotal Labor				3,900.00
			Job Subtotal	\$3,900.00
			Total this Invoice	\$7,908.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	7,908.00	99,032.00	106,940.00	99,032.00	7,908.00

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.

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

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



INVOICE

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

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

March 30, 2021
 Invoice No: 23270F55.05 - 22

Total this Invoice	\$775.00
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Regarding: Elm Creek Wetland Mitigation Monitoring

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

Job 001 – Ravinia Wetland Mitigation

Task 004 – 2020 Monitoring and Report

- Preparing annual report for 2020 monitoring

Professional Services from February 20, 2021 to March 26, 2021

Job:	001	Ravinia Wetland Mitigation
Task:	004	2020 Monitoring and Report

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Burgner, Brian	4.00	115.00	460.00	
Shalley, Matthew	3.00	105.00	315.00	
	7.00		775.00	
Subtotal Labor				775.00
		Task Subtotal		\$775.00
		Job Subtotal		\$775.00
		Total this Invoice		\$775.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	775.00	21,197.75	21,972.75	21,197.75	775.00

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

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

April 1, 2021

Invoice No: 23270F55.21 - 3

Total this Invoice	\$18,283.00
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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:
 - DNR Permit reviews
 - Rogers High School
 - Elm Creek Stream Restoration, Champlin
 - Tavera, Corcoran
 - Dayton resident
- Wetland Issues
 - none
- General administrative tasks
 - coordinating with administrator
 - responding to general coordination emails and phone calls
 - invoicing and budget tracking
 - coordinating transition to new Technical Services consultant

Job 200 – Other Assistance

- none

Job 300 – Project Reviews

- Reviewing the following projects for compliance with Commission rules:
 - 2020-029 Sundance Greens 5th Addition, Dayton
 - 2020-033 Weston Woods, Medina
 - 2021-001 Boston Scientific MG Campus, Maple Grove
 - 2021-002 Skye Meadows Variance Request, Rogers
 - 2021-003 Cranberry Ridge Apartments, Plymouth
 - 2021-004 Roers Maple Grove Apartments
 - 2021-005 WJD Two Thirds Addition
 - 2021-006 Boston Scientific WL3 Building Expansion, Maple Grove
 - 2021-007 Birchwood 2nd Addition, Rogers
 - 2021-008 Edgewater 3rd Addition, Rogers
 - 2021-009 Palisades at Nottingham 3rd Addition, Maple Grove
 - 2021-010 Gleason Fields, Maple Grove
 - 2021-011 Graco Building 1, Dayton
 - 2021-014 Elm Creek Stream Restoration Phase 4, Champlain
- Coordinating and reviewing post approval submittals
 - 2020-002 Project 100 Minnesota Health Village, Maple Grove
 - 2020-009 Stetler Barn, Medina

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

Professional Services from February 20, 2021 to March 26, 2021

Job: 100 Technical Services

Task: 010 Meetings

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	.70	200.00	140.00	
Engineer / Scientist / Specialist IV				
Waln, Joseph	3.50	160.00	560.00	
	4.20		700.00	
Subtotal Labor				700.00

Subconsultant Charges

Subconsultants			495.00	
3/26/2021	Surface Water Solutions LLC			
Subtotal Subconsultant				495.00
Task Subtotal				\$1,195.00

Task: 020 Pre-Project Review

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	1.40	200.00	280.00	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.60	160.00	256.00	
	3.00		536.00	
Subtotal Labor				536.00

Subconsultant Charges

Subconsultants			550.00	
3/26/2021	Surface Water Solutions LLC			
Subtotal Subconsultant				550.00
Task Subtotal				\$1,086.00

Task: 040 General

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	6.30	160.00	1,008.00	
Support Personnel II				
Nypan, Nyssa	.80	100.00	80.00	
	7.10		1,088.00	
Subtotal Labor				1,088.00

Subconsultant Charges

Subconsultants			990.00	
3/26/2021	Surface Water Solutions LLC			
Subtotal Subconsultant				990.00
Task Subtotal				\$2,078.00

Job Subtotal **\$4,359.00**

Project	23270F55.21	Elm Creek WMC 2021	21	Invoice	3
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Job:	300	Project Reviews
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Task:	2002	2020-002 Project 100
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Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		220.00	
	Subtotal Subconsultant			220.00

Task Subtotal	\$220.00
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Task:	2009	2020-009 Stetler Barn
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Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		605.00	
	Subtotal Subconsultant			605.00

Task Subtotal	\$605.00
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Task:	2029	2020-029 Sundance Greens 5th Addition
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Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.70	160.00	112.00	
	.70		112.00	
Subtotal Labor				112.00

Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		467.50	
	Subtotal Subconsultant			467.50

Task Subtotal	\$579.50
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Task:	2033	2020-033 Weston Woods
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Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.70	160.00	272.00	
	1.70		272.00	
Subtotal Labor				272.00

Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		495.00	
	Subtotal Subconsultant			495.00

Task Subtotal	\$767.00
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Task:	2101	2021-001 Boston Scientific 2021 Access Drive
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Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	5.10	160.00	816.00	

Engineer / Scientist / Specialist II
Hlavaty, Heather

6.50	120.00	780.00
11.60		1,596.00

Subtotal Labor **1,596.00**

Subconsultant Charges

Subconsultants

3/26/2021	Surface Water Solutions LLC	110.00
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Subtotal Subconsultant **110.00**

Task Subtotal **\$1,706.00**

Task: 2102 2021-002 Skye Meadows Variance

Labor Charges

	Hours	Rate	Amount
Principal			
Herbert, James	1.00	200.00	200.00
Engineer / Scientist / Specialist IV			
Waln, Joseph	20.20	160.00	3,232.00
	21.20		3,432.00

Subtotal Labor **3,432.00**

Subconsultant Charges

Subconsultants

3/26/2021	Surface Water Solutions LLC	247.50
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Subtotal Subconsultant **247.50**

Task Subtotal **\$3,679.50**

Task: 2103 2021-003 Cranberry Ridge Apartments

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist IV			
Waln, Joseph	2.60	160.00	416.00
Engineer / Scientist / Specialist II			
Hlavaty, Heather	.60	120.00	72.00
	3.20		488.00

Subtotal Labor **488.00**

Subconsultant Charges

Subconsultants

3/26/2021	Surface Water Solutions LLC	55.00
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Subtotal Subconsultant **55.00**

Task Subtotal **\$543.00**

Task: 2104 2021-004 Roers Maple Grove Apartments

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.20	160.00	32.00	
	.20		32.00	
Subtotal Labor				32.00
			Task Subtotal	\$32.00

Task: 2105 2021-005 WJD Two Thirds Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.80	160.00	128.00	
	.80		128.00	
Subtotal Labor				128.00

Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		137.50	
Subtotal Subconsultant				137.50
			Task Subtotal	\$265.50

Task: 2106 2021-006 Boston Scientific WL3 West Building

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.70	160.00	272.00	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	3.10	120.00	372.00	
	4.80		644.00	
Subtotal Labor				644.00
			Task Subtotal	\$644.00

Task: 2107 2021-007 Birchwood 2nd Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.70	160.00	112.00	
	.70		112.00	
Subtotal Labor				112.00

Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		770.00	
Subtotal Subconsultant				770.00
			Task Subtotal	\$882.00

Task: 2108 2021-008 Edgewater 3rd Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	4.60	160.00	736.00	
Engineer / Scientist / Specialist II				
Brown, Aaron	15.00	95.00	1,425.00	
Support Personnel II				
Shea, Jayne-Anne	.10	135.00	13.50	
	19.70		2,174.50	
Subtotal Labor				2,174.50

Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		55.00	
Subtotal Subconsultant				55.00
		Task Subtotal		\$2,229.50

Task: 2109 2021-009 Palisades at Nottingham 3rd Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.80	160.00	128.00	
	.80		128.00	
Subtotal Labor				128.00
		Task Subtotal		\$128.00

Task: 2110 2021-010 Gleason Fields

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.50	160.00	240.00	
	1.50		240.00	
Subtotal Labor				240.00

Subconsultant Charges

Subconsultants				
3/26/2021	Surface Water Solutions LLC		577.50	
Subtotal Subconsultant				577.50
		Task Subtotal		\$817.50

Task: 2111 2021-011 Graco Building 1

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.00	160.00	160.00	
Engineer / Scientist / Specialist II				
Brown, Aaron	5.70	95.00	541.50	
	6.70		701.50	
Subtotal Labor				701.50

Subconsultant Charges

Subconsultants

3/26/2021	Surface Water Solutions LLC	44.00	
Subtotal Subconsultant			44.00

Task Subtotal	\$745.50
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Task: 2114 2021-014 Elm Creek Stream Restoration Phase 4

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist IV			
Waln, Joseph	.50	160.00	80.00
	.50		80.00
Subtotal Labor			80.00

Task Subtotal	\$80.00
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Job Subtotal	\$13,924.00
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Total this Invoice	\$18,283.00
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	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	18,283.00	25,702.00	43,985.00	25,702.00	18,283.00

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.



11955 CHAMPLIN DRIVE, CHAMPLIN, MN 55316-2399 • (763) 421-8100 • ci.champlin.mn.us

March 10, 2020

Judie Anderson, Administrator
Elm Creek Water Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

**Re: Construction Reimbursement Invoice for Elm Creek WMC Resolution 2017-04/
Cooperative Agreement with City of Champlin for the Independence Area Rain Garden
Structural BMP's**

Dear Judie,

Attached please find the invoice in the amount of \$38,447.38 for the construction reimbursement related to the City of Champlin Independence Area Rain Garden Structural BMP's and Elm Creek WMC Resolution 2017-04 Cooperative Agreement with City of Champlin. Also attached is a copy of the ECWMC Agreement 2017-04, Final Contract Payment and the Project Construction Spreadsheet.

Let me know if you have any questions regarding this request.

Sincerely,

Todd Tuominen
Assistant City Engineer
City of Champlin

CC: file

Attachment: Invoice
Cooperative Agreement 2017-04
Final Payment & Metro Blooms Invoices
Final Cost Spreadsheet



City of Champlin
 11955 Champlin Drive
 Champlin, MN 55316
 Telephone: 763.421.1955
 Fax: 763.421.5256
 Attn: Engineering Dept.

Invoice No. 21716 EC WMC

INVOICE

Customer

Name Judie Anderson, Administrator EC WMC
 Address 3235 Fernbrook Lane
 City Plymouth State MN ZIP 55155-4010
 Phone

Misc

Date 3/10/2021
 Order No.
 Rep
 FOB

Qty	Description	Unit Price	TOTAL
1	Independence Avenue Rain Garden Pond and BMPs		\$38,447.38

SubTotal \$ 38,447.38

Shipping

Payment

Select One...

Tax Rate(s)

Comments Pay Request #1

Name

CC #

Expires

TOTAL \$ 38,447.38

Office Use Only

Please Make Check Payable to: The City of Champlin. Thank You.



OLD REPUBLIC SURETY GROUP

28

P O Box 1635
Milwaukee, WI 53201
Tel: 800-217-1792
Email: Underwriting@orsurety.com

BILLING NOTICE

YOU MAY MAKE YOUR PAYMENT
ONLINE VIA OUR WEBSITE BEFORE
THE DUE DATE TO AVOID
CANCELLATION

WWW.ORSURETY.COM/PAYONLINE

RNS0597403
ELM CREEK WATERSHED MANAGEMENT DISTRICT
3235 FERNBROOK LANE
N
PLYMOUTH, MN 55447

Due Date: 5/22/2021
Amount Due: \$144.00

Bond Number: RNS0597403
Bond Desc: NAME SCH-CRIME
Bond Amount: 25,000
Effective Date: 5/22/2021
Expiration Date: 5/22/2024
Obligee: SAME AS PRINCIPAL

Producer:

ARTHUR J GALLAGHER RISK MGMNT
3600 AMERICAN BLVD STE 500
BLOOMINGTON, MN 55431
952-358-7513

THIS BOND IS CONTINUOUS
PLEASE REMIT PAYMENT PROMPTLY
TO AVOID CANCELLATION. IF BOND
IS NO LONGER NEEDED, EMAIL US
AT UNDERWRITING@ORSURETY.COM

Please retain this portion for your records

Please return this portion with your payment



OLD REPUBLIC SURETY GROUP

Payment Due Date	Bond Number	Amount Due	Bill Codes	Amount Enclosed
5/22/2021	RNS0597403	\$144.00	6 D Y 1 CTE	\$

MAKE CHECK OR MONEY ORDER PAYABLE TO:
OLD REPUBLIC SURETY COMPANY
Please include bond number on your check or money order

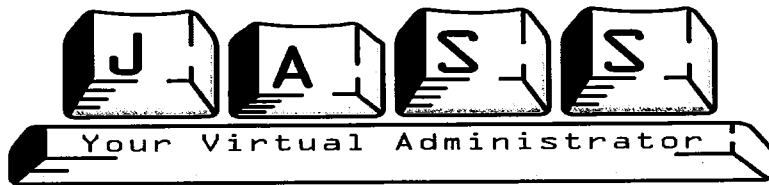


Name/Address/Email change (Please print on reverse side)

ELM CREEK WATERSHED MANAGEMENT DISTRICT
3235 FERNBROOK LANE
N
PLYMOUTH, MN 55447

OLD REPUBLIC SURETY GROUP
PO BOX 88120
MILWAUKEE, WI 53288-8120

RNS0597403000144006



3235 Fernbrook Lane
Plymouth MN 55447

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

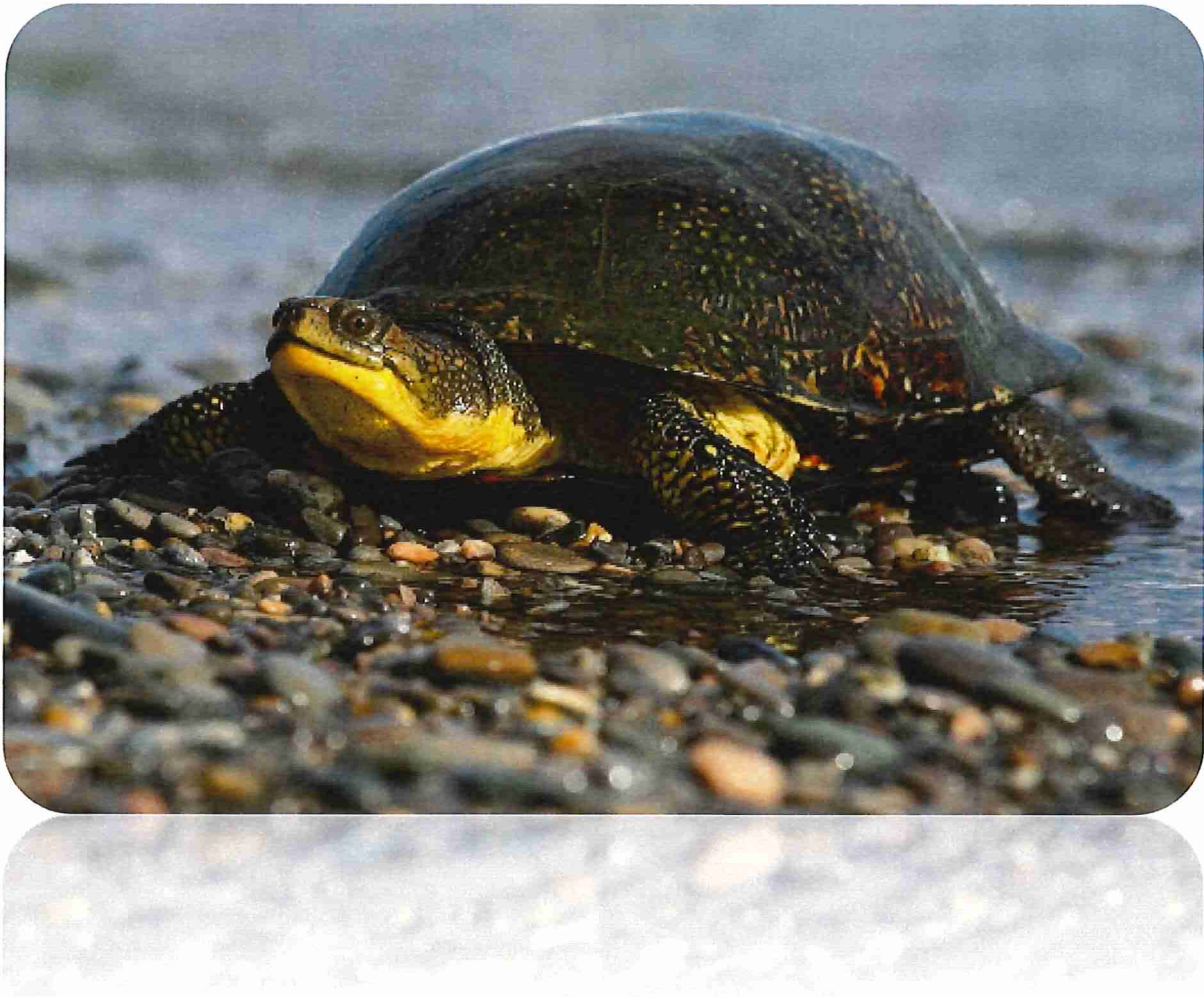
8-Apr-21

Total by
Project Area

Administrative	2.88	60.00	172.80	
Administrative	47.59	65.00	3,093.35	
Admin - virtual	5.15	70.00	360.50	
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	1.00	60.00	60.00	
Archiving	10.805	60.00	648.30	
Admin - Reimbursable Expense	763.03	1.00	763.03	7,642.740
Admin - TAC support		60.00	0.00	
Admin - TAC support	1.00	65.00	65.00	
Admin - TAC support virtual	0.92	70.00	64.40	
TAC Support - Reimbursable Expense		1.00	0.00	129.400
Website		60.00	0.00	
Website	0.50	65.00	32.50	
Website - Zoom		1.00	0.00	
Website - Reimbursable Expense		1.00	0.00	
Web Domain, hosting		1.00	0.00	32.500
Annual Reporting/Work Plans	18.69	65.00	1,214.85	
2020 Work Plan		65.00	0.00	
Annual Reporting/Work Plan - Reimbursable Expense	373.58	1.00	373.58	1,588.430
Project Reviews - Secre		60.00	0.00	
Project Reviews - Admin	7.03	65.00	456.95	
Project Reviews - Admin offsite		70.00	0.00	
Project Reviews - Admin - File Mgmt	2.25	60.00	135.00	
Project Reviews - Reimbursable Expense	190.36	1.00	190.36	782.310
Project Reviews - Admin - Specific	15.54	65.00	1,010.10	
Project Reviews - Admin - Specific - reimbursables	236.52	1.00	236.52	1,246.620
Education - Secretarial		60.00	0.00	
Education - Admin		65.00	0.00	
Education - Admin virtual - Blue Thumb Partner Event	0.833	70.00	58.31	
Education - Reimbursable Expense		1.00	0.00	58.310
Floodplain administrative	0.50	65.00	32.50	
Floodplain mapping reimbursable expense		1.00	0.00	32.500

Invoice Total

11,512.810



Elm Creek
Watershed Management
Commission
2020 Annual Activity Report

Elm Creek Watershed Management Commission

2020 Annual Activity Report

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Appendices

- A. Commissioners | Staff | Consultants
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- H. Watershed PREP
- I. Commission Website
- J. Financials

This report was prepared
for the Elm Creek Watershed Management Commission
by JASS, Inc.
For more information about this report, contact Judie@jass.biz

We gratefully acknowledge the assistance of:
James Kujawa, Surface Water Solutions LLC,
Brian Vlach and Amy Timm, Three Rivers Park District

About the cover photograph:

The Elm Creek Restoration Project Phase IV in Champlin includes 3,670 linear feet of stream bank restoration of Elm Creek which is located upgradient of the Mill ponds. The project will extend from the park bridge in Josephine Nunn Park to the Elm Creek Crossing Bridge. Preliminary design plans have been completed in cooperation with the MNDNR, and the Elm Creek Management Commission. Elm Creek is an Impaired Water for low dissolved oxygen. Restoring the stream banks and providing habitat structure will reduce downstream sedimentation and provide native habitat improvements including root wads, boulder vanes, toewood, boulder clusters, rock weirs and riffles with varied substrate to enhance aquatic species habitat including sensitive species such as Blandings Turtle.

Photo courtesy of Todd Tuominen, City of Champlin.

This annual activity report, prepared by the Elm Creek Watershed Management Commission in accordance with the annual reporting requirements of Minnesota Rules Chapter 8410.0150 Subp. 2-3, summarizes the activities undertaken by the Commission during calendar year 2020.

≡ THE COMMISSION

The Elm Creek Watershed Management Commission was established to protect and manage the natural resources of the Elm Creek watershed. A Board of Commissioners comprised of representatives appointed by the member communities was established as the governing body of the Commission. Its members are the cities of Champlin, Corcoran, Dayton, Maple Grove, Medina, Plymouth, and Rogers.

MEETINGS The Commission normally meets monthly on the second Wednesday at 11:30 a.m. at Maple Grove City Hall, 12800 Arbor Lakes Parkway. The meetings are open to the public and visitors are welcome. Meeting notices, agendas and approved minutes are posted on the Commission's website, www.elmcreekwatershed.org. However, due to the COVID-19 pandemic, beginning in April 2020 the Commission met virtually via zoom.us. All other meeting criteria remained the same.

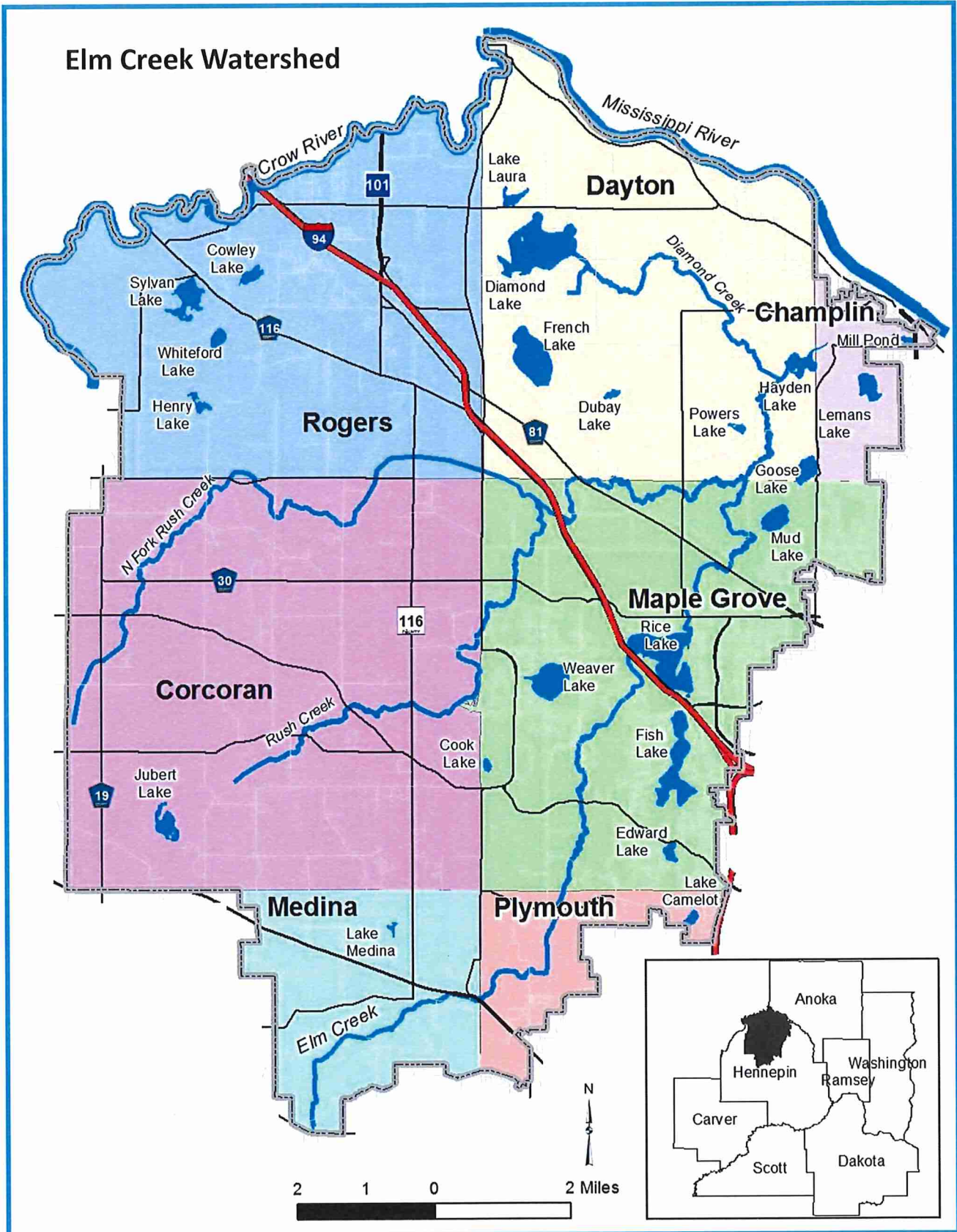
COMMISSIONERS | TECHNICAL ADVISORY COMMITTEE | STAFF Appendix A includes the names of the Commissioners and their Alternates appointed to serve in 2020. Also listed there are the members of the Commission's Technical Advisory Committee (TAC) along with the individuals/firms serving as the Commission's administrative, legal, and technical support staff. The Commission has no employees.

≡ THE WATERSHED

The Elm Creek watershed covers approximately 130.61 square miles and lies wholly within the north central part of Hennepin County, Minnesota. The Crow and Mississippi Rivers demarcate the northern boundary. Although some areas in the north drain to the Crow and Mississippi Rivers, they are within the legal boundaries of the Elm Creek watershed. Table 1 shows the area share of the member communities in the watershed. A map of the watershed may be viewed on the following page.

Table 1 - Area of Members within the Elm Creek Watershed

Local Government Unit	Area (Square Miles)	%age of Watershed
Champlin	3.08	2.36%
Corcoran	36.06	27.61%
Dayton	25.17	19.27%
Maple Grove	26.32	20.15%
Medina	9.34	7.15%
Plymouth	4.44	3.40%
Rogers	26.20	20.06%
Total	130.61	100.0%



≡ THE WATERSHED PLAN

The Elm Creek Watershed Management Commission adopted its Third Generation Watershed Management Plan on October 14, 2015. The Third Generation Plan describes how the Commission will manage activities in the Elm Creek watershed in the ten-year period 2015-2024.

The Plan includes information required by Minnesota Administrative Rules Chapter 8410, Local Water Management: 1) an updated land and water resource inventory; 2) goals and policies; 3) an assessment of problems and identification of corrective actions; 4) an implementation program; and 5) a process for amending the Plan. This Plan also incorporates information and actions identified in the Elm Creek Watershed-wide Total Maximum Daily Load study (TMDL) and Watershed Restoration and Protection Strategy study (WRAPS), completed between 2009 and 2016.

The Commission, along with the Citizen and Technical Advisory Committees (CAC and TAC), identified the following issues during development of the plan:

- **Water quality**—numerous lake and stream impairments, impact of land use changes, stream stability.
- **Agricultural impacts on water quality**—increase agricultural BMPs, develop effective mechanisms to encourage voluntary adoption, more effective outreach.
- **Funding**—maintaining a sustainable funding level; funding capital projects.
- **Other issues**—lack of information and knowledge of water quality issues and actions by multiple stakeholders; need to be realistic and prioritize actions; increase member city involvement; foster collaboration with other agencies.

Through identification of these issues, the Commission developed the following priorities to guide water resources planning and management functions:

- **Implement priority projects**, provide cost-share to member cities to undertake projects to help achieve WRAPS lake and stream goals.
- **Use results of WRAPS study to establish priority areas**, complete subwatershed assessments to identify specific BMPs that feasibly and cost-effectively reduce nutrient and sediment loading to impaired water resources.
- **Develop model manure management ordinance** to regulate placement of new, small non-food animal operations; require member cities to adopt that or other ordinances and practices to accomplish its objectives.
- **Partner with other organizations to complete pilot project** for targeted fertilizer application, increase and focus outreach to agricultural operators.
- **Continue participating in joint education and outreach activities** with the West Metro Water Alliance (WMWA) and other partners.

The Commission's goals and policies are enumerated in *Appendix B*.

LOCAL PLANS

Member cities are required to adopt their own local water management plans. These plans must be consistent with the Commission's Watershed Management Plan and comply with MN Statutes, Section 103B.235, and MN Rules 8410 regarding local plan content.

≡ 2020 WORK PLAN IN REVIEW

The Elm Creek Commission identified a number of activities to be undertaken in 2020. The activities are categorized as Technical, Monitoring, Education, Projects and Capital Improvements, and Administrative and are described below. Progress toward completing these activities is shown in *italics*.

TECHNICAL

- § Continue to 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. Appendix C lists these projects and includes a map showing their locations.*
 - § 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 costs 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 fee structure:*
 - *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.*
 - *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.*
 - *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. Both documents can be viewed in Appendix C.*
- § Continue to update the Special Flood Hazard Areas on the FEMA Floodplain maps located within the watershed into current modeling packages. *An amendment to the Floodplain Modeling Grant contract with the DNR which extended the project from April 30, 2020 to March 31, 2021, was approved by the Commission at its April 8, 2020 meeting.*

MONITORING

- § Under a five-year cooperative agreement approved in 2018, continue to partner with the Three Rivers Park District (TRPD) to share in the costs of conducting lake and stream monitoring in the watershed. *In 2020 the Park District monitored Diamond Creek (DC), Rush Creek main stem (RT), and Elm Creek above Rice Lake (EC77) and continued its support of the USGS stream gauging station in Champlin. TRPD also monitored Diamond, Fish, and Weaver lakes and the main basin of Rice Lake. Park District staff conducted aquatic vegetation surveys in Diamond Lake and the Mill Pond in 2020 as well. Stream monitoring results are found in Appendix D, lake monitoring results in Appendix F.*
- § Continue to operate the monitoring station in Champlin in cooperation with the United States Geological Survey (USGS). *Real time data from the monitoring station may be viewed on the Internet at http://waterdata.usgs.gov/mn/nwis/uv/?site_no=05287890&PARAMeter_cd=00065,00060. Learn more about the monitoring station in Appendix E.*
- § Fund the monitoring of one lake through Metropolitan Council's Citizen Assisted Monitoring Program (CAMP). *Teal Lake in Maple Grove was chosen as the lake to be monitored through CAMP. Teal Lake Conservation Association members performed the monitoring. CAMP monitoring results will be available in 2021 on the Met Council's website, <https://metro council.org/Wastewater-Water/Services/Water-Quality-Management/Lake-Monitoring-Analysis/Citizen-Assisted-Monitoring-Program.aspx>. Learn more about CAMP in Appendix G.*
- § Participate in the Minnesota Wetland Health Evaluation Program (WHEP) with four wetlands in 2020. *Due to the COVID 19 pandemic volunteers did not participate in WHEP in 2020.*

EDUCATION AND PUBLIC OUTREACH

- § Promote river stewardship through Hennepin County's RiverWatch program with three sites in 2020. *Due to the COVID 19 pandemic volunteer invertebrate monitoring did not occur in 2020.*
- § 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.*
- § Promote Watershed PREP (Protection, Restoration, Education, and Prevention), a program of WMWA. The focus of the program is two-fold - to present water resource-based classes to fourth grade students and to provide education and outreach to citizens, lake associations, civic organizations, youth groups, etc. Three individual classes meeting State of Minnesota education standards have been developed. **Lesson 1, What is a Watershed and Why do we care?**, provides an overview of the watershed concept and is specific to each school's watershed. It describes threats to the watershed. **Lesson 2, The Incredible Journey**, describes the movement and status of water as it travels through the water cycle. **Lesson 3, Stormwater Walk**, investigates movement of surface

water on school grounds. The ultimate goal is to make this program available to all fourth graders in the four WMWA watersheds and to other schools as contracted. The program is offered to public, private, parochial, magnet and charter schools. *In 2020, despite the challenges of COVID-19, 572 students in 24 classes attended Lesson 1 and 256 students in ten classes attended Lesson 2, either in person or through online classes. (Appendix H)*

- § 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) runs the program with funding provided to Hennepin County serving as a Conservation District. *BWSR and its program partner, Blue Thumb: Planting for Clean Water, conducted an initial application period for spring 2020 projects that yielded over 5,000 applications.*
- § Sponsor workshops as part of the Commission’s Education and Public Outreach Program. The workshops are presented by Metro Blooms. *The City of 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 Champlin residents participated in this virtual workshop, 32 residents from across the metro area also participated. It is the City’s intention 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.*
- § 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.*
- § Continue to work in partnership with the University of Minnesota’s agriculture specialist to help build relationships with the agricultural community in the watershed 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.*
- § 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 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.*
 - *A second project in Corcoran is currently under review by the city’s WCA consultant for feasibility.*
 - *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.

- *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.*
- *Inspection of County Ditches 3 and 16 in Corcoran/Maple Grove will occur to determine their baseline condition prior to remedial work being performed.*

- § 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 in Appendix I.*

PROJECTS AND CAPITAL IMPROVEMENTS

- § Contact 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. *The Commission held a public meeting on June 10, 2020, after which it approved Resolution 2020-01 adopting an amendment to the Third Generation Watershed Management Plan revising the CIP. 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. 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.*
- § Continue to support City-sponsored projects using the ad valorem funding mechanism. Conduct public hearing for identified projects and certify levy to Hennepin County. *On September 10, 2020, the Commission conducted a public hearing to consider three projects for certification to Hennepin County. The projects and the amounts certified are: Project 2020-01 Livestock Exclusions, Buffers, Stabilizations, in the cities of Corcoran and Rogers, \$53,025; Project 2020-02 Agricultural Best Management Practices Cost-Share, also in the cities of Corcoran, and Rogers, \$53,025; and Project 2020-03 Enhanced Street Sweeper, City of Plymouth, \$31,512. The total estimated cost of the three projects is \$218,858.00, of which \$137,562 was certified under Resolution 2020-02.*
- § For the 2020-2021 biennium of the Watershed-Based funding program, the Board of Water and Soil Resources (BWSR) allocated funding based on major watershed divides. Elm Creek is in the Mississippi West Major Watershed (MWW) which was allocated \$874,153. A partnership was created 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 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.*

§ Undertake high priority projects identified in the Rush Creek Headwaters Subwatershed Assessment. Proposed activities could include grassed waterways, alternate/closed tile intakes, manure management projects, grazing plans, and exclusion fencing.

- 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 and the cities of Rogers and Champlin are all project partners but are not contributing any funds to the project. The project will be completed in early 2021.*
- 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.*
- 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 the 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.*

§ 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. *In 2020 buffer reviews were completed for Champlin, Dayton, Maple Grove, and Plymouth. At year-end, all properties in these four cities were in compliance.*

ADMINISTRATIVE

- § Conduct the biennial solicitation of interest proposals for administrative, legal, technical and wetland consultants. *This process will be replicated in January 2021.*
- § 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. (Appendix J)*

- § 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.*

≡ FINANCIAL REPORTING

Appendix J includes the Commission's approved budget for 2020. The Commission's Joint Powers Agreement provides that each member community contributes toward the annual operating budget based on its share of the total market value of all property within the watershed. The 2020 assessments to the members are also shown in *Appendix J*.

Of the \$1,012,505 operating budget for 2020 approved by the Elm Creek Watershed Management Commission on June 12, 2019, revenue of \$80,000 was projected as proceeds from application fees, \$5,500 from partnership revenue, \$139,360 from grant proceeds, and \$8,250 from interest income and dividends, resulting in assessments to members totaling \$237,300. \$93,160 was projected as coming from reserves.

\$243,860 was projected as project review-related expense; \$50,010 for water monitoring; and \$21,500 for education. \$123,200 was budgeted for administration, planning, and general operating expenses. \$205,437 resides in an assigned fund for special projects, studies and subwatershed assessments.

The Commission also designated \$448,935 as its share of six CIP Projects. (Two projects were later withdrawn.) A Hennepin County ad valorem levy (\$295,138 payable in 2020) was used to fund the Commission's share of the remaining four projects having a cumulative cost of \$2,663,830.

The Commission maintains a checking account at US Bank for current expenses and rolls uncommitted monies to its account in the 4M Fund, the Minnesota Municipal Money Market Fund.

An amendment to Minnesota Rules, Chapter 8410 became effective July 13, 2015. One of the revisions to the Rules extends the annual audit due date to 180 days after the end of the fiscal year, in the case of the Elm Creek Commission, to June 30, 2020. *The 2019 Audit Report, which was prepared by Johnson & Company, Ltd., Certified Public Accountants, was accepted by the Commission at its June 10, 2020 meeting and submitted to the State Auditor online per compliance guidelines. It is available for viewing on the Commission's website, www.elmcreek.org.*

The Commission follows Rule 54 of the Government Accounting Standard Board (GASB) to report Fund Balances. The fund balance classifications include:

Nonspendable – amounts that are not in a spendable form. The Commission does not have any items that fit this category.

Restricted – amounts constrained to specific purposes by their providers. One example would be ad valorem levy funds received from the County for capital improvement

projects. The unused portion of these funds must be set aside in a restricted account for similar projects. Another example would be BWSR Legacy Grant proceeds where the funds are received prior to the onset of a project and where any unused portion must be returned to the grantor.

Committed – amounts constrained to specific purposes by the Commission itself. An example would be residual funds carried over from one year to the next for Studies, Project Identification and Subwatershed Assessments.

Assigned – amounts the Commission intends to use for specific purposes. Most line items in the Commission’s Operating Budget fall under this category.

Unassigned – amounts available for any purpose. These amounts are reported only in the general fund.

Amounts paid by the Commission per the 2019 Audit are as follows:

General engineering	95,419
General administration	116,449
Education	14,493
Programs	40,348
Projects	124,092
Capital projects	<u>432,547</u>
Total	\$823,348

General engineering work includes review of local plans, review of development/redevelopment projects, attendance at meetings and other technical services. General administration includes support to technical staff, attendance at meetings, insurance premiums, annual audit, legal counsel, tracking grant opportunities, watershed planning, and other non-engineering services.

≡ PROJECTED 2021 WORK PLAN

TECHNICAL

- § Continue to review local development/redevelopment plans for conformance with the standards outlined in the Commission’s Third Generation Watershed Management Plan. *Implement the updated 2021 project review policy, application form, and fee schedule.*
- § Continue to update the Special Flood Hazard Areas on the FEMA Floodplain maps located within the watershed into current modeling packages. *At December 25, 2020, eight percent of the original budget remained, not including \$14,800 of additional work authorized by the DNR in December 2020 and an additional \$1,200 for the revision of 12 subwatersheds and update of the HEC-HMS model inputs for those subwatersheds. The term of the contract ends March 31, 2021. The DNR will begin presentation of the model to floodplain staff in the member cities on March 18, 2021.*

- § Convene a meeting of the Technical Advisory Committee to review any inconsistencies between the Commission and member city Rules and Standards.

MONITORING

- § Continue to partner with the Three Rivers Park District (TRPD) to share in the costs of conducting lake and stream monitoring in the watershed as described in the five-year cooperative agreement approved in 2018. *In 2021 TRPD will monitor Elm Creek at 77th Avenue (ECF77); Rush Creek at Territorial Road (RT); and Diamond Creek (DC) for continuous flow. TRPD will also monitor four of fifteen lakes in the Elm Creek watershed (Diamond, Fish, Rice main body, and Weaver) in 2021. 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 within the Elm Creek Park Reserve.*
- § Fund the monitoring of one lake through Metropolitan Council's Citizen Assisted Monitoring Program (CAMP). *One lake will be monitored through CAMP in 2021.*
- § Continue to operate the monitoring station in Champlin in cooperation with the United States Geological Survey (USGS). *The cooperative agreement with the USGS will be renewed for WY2021.*
- § Participate in the Minnesota Wetland Health Evaluation Program (WHEP) with four wetlands in 2021, *dependent on the status of the pandemic.*

EDUCATION AND PUBLIC OUTREACH

- § Continue as a member of the West Metro Water Alliance (WMWA). *Dependent on the status of the pandemic, Watershed PREP classes may be conducted virtually.*
- § 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. *Additional funding is being sought to continue this program in 2021. The Commission will promote the program on its website if funding is realized.*
- § Sponsor Rain Garden Workshops as part of the Commission's Education and Public Outreach Program. The workshops are presented by Metro Blooms. *Virtual workshops may be substituted for in-person workshops in 2021 and made available to host cities for rebroadcasting.*
- § Continue as a member of Blue Thumb and WaterShed Partners and a partner in the NEMO (Nonpoint Education for Municipal Officials) program. *Staff will continue to virtually attend Blue Thumb and WaterShed Partner meetings, bringing back programs and ideas for promotion by the Commission.*

- § Promote river stewardship through Hennepin County's RiverWatch program with three sites in 2021, *dependent on the status of the pandemic.*
- § **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. *The status of the pandemic will determine what amount of interaction with landowners can occur in 2021.*
- § 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. *Hennepin County Environment and Energy Staff will work with landowners to identify BMP projects as well as larger, more strategic projects for inclusion on the Commission's Capital Improvement Program (CIP).*
- § 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. *This process will continue in 2021.*

PROJECTS AND CAPITAL IMPROVEMENTS

- § Contact 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 and adopt an amendment to the Third Generation Watershed Management Plan to incorporate the new/revised projects. *This process will be repeated in 2021.*
- § Continue to support City-sponsored projects using the ad valorem funding mechanism. Conduct public hearing for identified projects and certify levy to Hennepin County. *This process will also be repeated in 2021.*
- § Undertake high priority projects identified in the Rush Creek Headwaters Subwatershed Assessment. *Grant opportunities will be sought to help supplement local and Commission funding in order to take on these projects.*
- § For the 2020-2021 biennium of the Watershed-Based funding program BWSR has allocated the funds based on major watershed divides. Elm Creek is in the Mississippi West Major Watershed (MWW) which will be allocated \$874,153. Funds became available July 1, 2020. Grants from these funds expire December 31, 2023 *Elm Creek submitted two projects, the Rush Creek Restoration for \$200,000 and the Elm Creek Restoration at the outlet of Hayden Lake for \$300,000. After criteria ranking, Elm Creek was awarded \$281,996.20 to be put toward one or both projects at the discretion of the Commission. A 10% local match is required. In addition, other grant funds will be pursued to complete these stream restorations.*

Elm Creek is also in the North Fork Crow (NFC) major watershed which was allocated \$91,105.00; however, no projects were identified within the major watershed area for which to use the funding so it was relinquished to other participants.

- § Support the City of Maple Grove and its partners as they undertake a subwatershed assessment for Weaver Lake. *The City has begun its work on the subwatershed assessment and is awaiting comments from the lake association before finalizing the assessment.*
- § 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. *Corcoran intends to continue pursuing funds and/or grants for this project. Staff recognizes a need to generate local funds and has discussed a stormwater utility as development expands in Corcoran's MUSA area as well as considerations for rural Corcoran. Council level discussions are likely to occur in 2021.*
- § Support the City of Dayton and its partners to continue efforts for completion of the Diamond Lake subwatershed assessment. *At 2020 year-end, the Diamond Creek SWA was at approximately 75% completion. Most of the technical components of the project (~90%) were completed in 2020, including data compilation, GIS analysis, modeling, field visits, BMP siting, planning level design, and cost estimates. Staff have begun outlining and drafting the final report and plan to have a draft for local stakeholder review by the end of March 2021.*

ADMINISTRATIVE

- § Conduct the biennial solicitation of interest proposals for administrative, legal, technical and wetland consultants. *Solicitations were published in the December 14, 2020 edition of the State Register. Five engineering firms, one legal firm, and one administrative services provider responded. Campbell Knutson, PA, and Judie Anderson's Secretarial Services, Inc. were selected to perform legal and administrative services, respectively, at the Commission's January 13, 2021 meeting. Wenck/Stantec was chosen as the Commission's technical advisor at the February 10, 2021 meeting. This process will be repeated in January 2023.*
- § Adopt a 2022 operating budget. *A Budget Committee will draft a 2022 operating budget for consideration by the Commission in May 2021.*
- § Publish an annual activity report summarizing the Commission's yearly activities and financial reporting. *The 2020 Annual Activity Report will be published in April 2021 and made available to the member cities and the public on the Commission website, <http://www.elmcreekwatershed.org/annual-reports.html>.*
- § Participate with the Board of Water and Soil Resources in a Performance Review and Assistance Program (PRAP) Level II Review. *This review will begin in May 2021.*

Have a question about this report?

Need more information?

Want to know how to get involved?

Contact us: drop us an email, give us a call, we're happy to help:

<http://www.elmcreekwatershed.org/contact-us.html>

APPENDIX

Commissioners

Commissioners and Alternate Commissioners are appointed by the communities they represent and serve at will. Officers are elected annually at the first regular meeting during the month of March and assume office on April 1.

REPRESENTING	NAME/POSITION	ADDRESS	TELEPHONE/EMAIL
Champlin	Bill Walraven Secretary	216 Lowell Road Champlin, MN 55316	763.421.3206 traderstec@aol.com
	Gerry Butcher Alternate	11467 Preserve Lane N Champlin, MN 55316	763.557.1451 gerrybutcher671@yahoo.com
Corcoran	Ken Guenthner Treasurer	6315 Butterworth Lane Corcoran, MN 55430	612.710.0734 kenguenthner@gmail.com
	vacant Alternate		
Dayton	Doug Baines Chair	13000 Overlook Road Dayton, MN 55327	763.323.9506 dougabaines@aol.com
	Tim McNeil Alternate	12260 S Diamond Lake Road Dayton, MN 55327	612.730.9312 tim@timmcneil.com
Maple Grove	Joe Trainor Commissioner	16075 Territorial Road Maple Grove, MN 55369	763.420.4645 joe.trainor@meritain.com
	Dan Riggs Alternate	12822 86th Place North Maple Grove, MN 55369	612.916.4406 driggs@carlsonmccain.com
Medina	Elizabeth Weir Vice Chair	1262 Hunter Drive Wayzata, MN 55391	763.473.3226 lizvweir@gmail.com
	Terry Sharp Alternate	4274 Fairway Drive Medina, MN 55340	612.849.6230 tsharp2972@aol.com
Plymouth	Catherine Cesnik Commissioner		cesnik@gmail.com
	Jake Gateman Alternate	14205 56th Ave N Plymouth, MN 55446	651.726.4759 jake.gateman@gmail.com
Rogers	Kevin Jullie Commissioner	13315 Oakwood Drive Rogers, MN 55374	763.428.9160 kjullie@srfconsulting.com
	Vacant Alternate		

Technical Advisory Committee

Members of the Technical Advisory Committee (TAC) are appointed by the member communities they represent. The purpose of the TAC is to review guidelines, standards and policies used to evaluate plans, plans and proposals of the members and make recommendations to the full Commission. The TAC meets at the direction of the Commission.

REPRESENTING	NAME	ADDRESS	TELEPHONE/EMAIL
Champlin	Todd Tuominen	City of Champlin 11955 Champlin Drive Champlin, MN 55316	763.923.7120 ttuominen@ci.champlin.mn.us
Corcoran	Kevin Mattson	City of Corcoran 8200 County Road 116 Corcoran, MN 55340	763.400-7028 kmattson@ci.corcoran.mn.us
Dayton	Nico Cantarero	Wenck Associates 7500 Highway 55 Ste 300 Golden Valley, MN 55427	763.252.6904 ncantarero@wenck.com
Maple Grove	Derek Asche	City of Maple Grove 12800 Arbor Lakes Parkway Maple Grove, MN 55313	763.494.6354 dasche@maplegrovmn.gov
Medina	Kaci Fisher	Hakanson-Anderson 3601 Thurston Avenue Anoka, MN 55303	763.852.0496 KaciF@HAA-inc.com
Plymouth	Ben Scharenbroich	City of Plymouth 3400 Plymouth Boulevard Plymouth, MN 55447	763.509.5527 bscharenbroich@plymouthmn.gov
Rogers	Andrew Simmons	City of Rogers 22350 S Diamond Lake Road Dayton, MN 55374	763.428.0907 asimmons@ci.rogers.mn.us
Barr Engineering	Jim Herbert	4300 MarketPointe Drive #200 Minneapolis, MN 55435	952.832.2784 jherbert@barr.com
	Joe Waln		952.832.2984 jwaln@barr.com
Surface Water Solutions, LLC	James Kujawa	6533 Neddersen Circle Brooklyn Park, MN 55445-3206	952.456.3206 surfacewatersolutions@outlook.com
Hennepin County Dept. of Energy and Environment	Kris Guentzel	701 Fourth Avenue S. Suite 700 Minneapolis, MN 55415-1600	612.596.1171 kristopher.guentzel@hennepin.us
	Kirsten Barta		612.543.3373 Kirsten.barta@hennepin.us
	Paul Stewart		612.543.9409 Paul.Stewart@hennepin.us
Three Rivers Park District	Brian Vlach	12615 County Road 9 Plymouth, MN 55441	763.694.7846 BVlach@threeriversparkdistrict.org

Staff and Consultants

The required biennial solicitation for interest proposals for administrative, legal, and technical consulting services was published in the January 14, 2019 edition of the *State Register*. The next solicitation will occur in January 2021. The Commission has no employees.

NAME/POSITION	ADDRESS	TELEPHONE/EMAIL
Technical Services		
Barr Engineering	Jim Herbert	4300 MarketPointe Drive #200 Minneapolis, MN 55435
	Joe Waln	952.832.2784 jherbert@barr.com 952.832.2984 jwaln@barr.com
Surface Water Solutions, LLC	James Kujawa	6533 Neddersen Circle Brooklyn Park, MN 55445-3206
Hennepin County Dept. of Energy and Environment	Kris Guentzel	701 Fourth Avenue S. Suite 700 Minneapolis, MN 55415-1600
	Kirsten Barta	612.596.1171 kristopher.guentzel@hennepin.us 612.543.3373 Kirsten.barta@hennepin.us
	Paul Stewart	612.543.9409 Paul.Stewart@hennepin.us
Legal Services		
	Joel Jamnik	Campbell Knutson Grand Oak Office Center I 860 Blue Gentian Road #290 Eagan, MN 55121
Administrative Services		
	Judie Anderson	JASS 3235 Fernbrook Lane Plymouth, MN 55447
	Amy Juntunen	763.553.1144 judie@jass.biz amy@jass.biz
	Beverly Love	beverly@jass.biz

Third Generation Watershed Management Plan

The Elm Creek Watershed Management Commission's Third Generation Watershed Management Plan ("the Plan") was approved by the Board of Water and Soil Resources (BWSR) on September 23, 2015, and adopted by the Commission on October 14, 2015.

The Plan includes information required in the Minnesota Administrative Rules Chapter 8410, Local Water Management: 1) an updated land and water resource inventory; 2) goals and policies; 3) an assessment of problems and identification of corrective actions; 4) an implementation program; and 5) a process for amending the Plan. This Plan also incorporates information and actions identified in the Elm Creek Watershed-wide Total Maximum Daily Load study (TMDL) and Watershed Restoration and Protection Strategy study (WRAPS), completed between 2009 and 2016.

The Commission, along with the Citizen and Technical Advisory Committees (CAC and TAC), identified a number of issues during the planning process. As these issues were identified, the Commission developed a list of priorities to guide water resources planning and management functions. The issues and subsequent priorities are enumerated on page 3 of the Annual Report.

The goals and policies created as a result of this process include the following:

Goals

Water Quantity

- **Maintain post-development 2-year, 10-year, and 100-year peak rate of runoff** at pre-development level for the critical duration precipitation event.
- **Maintain post-development annual run-off volume** at pre-development volume.
- **Prevent loss of floodplain storage** below the established 100-year elevation.
- **Reduce peak flow rates** in Elm, Diamond, and Rush Creeks and tributary streams to the Crow and Mississippi and preserve conveyance capacity.

Water Quality

- **Improve Total Phosphorus concentration in the impaired lakes** by 10% over the 2004-2013 average by 2024.
- **Maintain or improve water quality in the lakes and streams** with no identified impairments.
- **Conduct a TMDL/WRAPS progress review** every five years following approval of the TMDLs and WRAPS studies.
- **Use information in the WRAPS to identify high priority areas** where the Commission will partner with cities and other agencies to provide technical and financial assistance.

Groundwater

- **Promote groundwater recharge** by requiring abstraction/infiltration of runoff from new development/redevelopment.
- **Protect groundwater quality** by incorporating wellhead protection study results into development and redevelopment Rules and Standards.

Wetlands

- **Preserve the existing functions and values of wetlands** within the watershed.
- Promote the enhancement or restoration of wetlands in the watershed.

Drainage Systems

- **Continue current Hennepin County jurisdiction over county ditches** in the watershed.

Operations and Programming

- **Identify and operate within a sustainable funding level** that is reasonable to member cities.
- **Foster implementation of priority TMDL and other implementation projects** by sharing in their cost and proactively seeking grant funds.
- **Operate a public education and outreach program** to supplement NPDES Phase II education requirements for member cities.
- **Operate a monitoring program** sufficient to characterize water quantity, water quality, and biotic integrity in the watersheds and to evaluate progress toward meeting goals.
- **Maintain rules and standards** for development and redevelopment consistent with local and regional TMDLs, federal guidelines, source water and wellhead protection requirements, nondegradation, and ecosystem management goals.
- **Serve as a technical resource** for member cities.

Implementation

The Third Generation Watershed Management Plan continues a number of activities that have been successful in the past and introduces some new activities, including modified development rules and standards and an enhanced monitoring program.

Rules and Standards

The Commission updated policies from their Second Generation Plan and developed new standards based on the 2013 Minnesota NPDES General Permit for Municipal Separate Storm Sewer Systems (MS4s), the 2013 Minnesota NPDES Construction Stormwater General Permit, and the MPCA's Minimal Impact Design Standards and State Stormwater Manual. These were compiled and codified into a Rules and Standards document and adopted in advance of the Third Generation Plan, effective January 1, 2015.

In general, the new Rules and Standards apply to all development and redevelopment that are

- one acre or more in size;
- require at a minimum no increase in pollutant loading or stormwater volume;
- require no increase in the peak rate of runoff from the property;
- require the abstraction/ infiltration of 1.1 inches of runoff from impervious surfaces; and
- clarify the wetland buffer requirements.

The Plan also provides a method by which member cities can take on review responsibilities for smaller projects, reducing the regulatory burden for small developers.

Monitoring Program

The monitoring program continues the partnership with Three Rivers Park District (TRPD) and the United States Geological Survey (USGS) for routine flow and water quality monitoring on Elm Creek, with periodic monitoring on additional Elm Creek sites, and on Rush, North Fork Rush, and Diamond Creeks on a rotating or as-needed basis. Four lakes – Weaver, Fish, Rice, and Diamond Lakes – have been classified as “Sentinel Lakes,” and are monitored every year. Other lakes will be monitored on a rotating basis.

Education and Outreach

The Citizens Advisory Committee (CAC) developed a recommended Education and Outreach program that identifies stakeholder groups and key education messages. This Plan expands education and outreach activities to key stakeholders and continues collaborative partnerships with organizations such as the West Metro Water Alliance (WMWA), NEMO (Nonpoint Education for Municipal Officials), and WaterShed Partners.

Other Activities

The Implementation Plan includes funding for BMP assessments and special studies such as feasibility studies and special monitoring that will identify the most cost-effective practices and projects.

WRAPS Implementation

The Plan includes key findings and actions identified in the Elm Creek Watershed Restoration and Protection Strategies (WRAPS) study, which includes Total Maximum Daily Loads (TMDLs) for the impaired waters and improvement and protection strategies and activities for all waters.

Local Water Management Plan Requirements

Local water management plans adopted by member cities pursuant to Minnesota Statutes, Section 103B.235 shall be consistent with the Commission's Third Generation Watershed Management Plan. Local plans must comply with MN Statutes, Section 103B.235 and MN Rules 8410 regarding local plan content.

- Update the existing and proposed physical environment and land use. Information from previous plans that has not changed may be referenced and summarized but does not have to be repeated. Local plans may adopt sections of the Commission's Plan's Inventory and Condition Assessment by reference unless the city has more recent information, such as revised figures and data.
- Explain how the goals and policies, and rules and standards in the Commission's Plan will be implemented at the local level, including any necessary modifications of local ordinances, policies, and practices and specifically addressing adoption and enforcement of a manure management ordinance.
- Show how the member city will take action to achieve the load reductions and other actions identified in and agreed to in TMDL Implementation Plans and the WRAPS study, including identifying known upcoming projects including street or highway reconstruction projects that will provide opportunities to include load and volume reduction BMPs.
- Show how the member city will, through an executed and recorded maintenance and inspection agreement, inspect or cause to be inspected and documented at least every five years privately owned permanent BMPs installed to meet the goals and policies and rules and standards of the Commission's Plan, and the actions the member city will take to assure that the BMPs are maintained and operated as designed.
- Update existing or potential water resource related problems and identify nonstructural, programmatic, and structural solutions, including those program elements detailed in MN Rules 8410.0100, Subp. 1-6.
- Summarize the estimated cost of implementation and analyze the member city's ability to finance the recommended actions.
- Set forth an implementation program including a description of adoption or amendment of official controls and local policies necessary to implement the Rules and Standards; programs; policies; and a capital improvement plan.

Projects Reviewed in 2020

Project Number	Project Name	City	Reviewed for Rules*					
			D	E	F	G	H	I
2017-039	Rush Creek Apartments)	Maple Grove	x	x				x
2018-033	Cloquet Island Estates	Dayton	x	x				x
2019-001	Fernbrook View Apartments	Maple Grove	x	x				x
2019-026	Interstate Power Systems	Rogers	x	x		x		
2019-031	Hassan Sand & Gravel – Zachman Property	Rogers		x	x			x
2019-032	OSI, Inc. Headquarters Addition	Medina	x	x	x			x
2020-001	Markets at Rush Creek Outlot L	Maple Grove	x	x				
2020-002	Project 100	Maple Grove	x	x				x
2020-003	Palisades at Nottingham Second Addition	Maple Grove	x	x				x
2020-004	Elm Road Area Project	Maple Grove	x	x	x	x	x	x
2020-005	Territorial Development Project EAW	Rogers	x	x	x	x		
2020-006	Zachary Villas	Dayton	x	x				
2020-007	Pineview Lane and Oakview Lane Improvements	Dayton	x	x	x			
2020-008	Ione Gardens	Dayton	x	x		x		x
2020-009	Stetler Barn	Medina	x	x				x
2020-010	Birchwood	Rogers	x	x				x
2020-011	Bellwether 4th Addition	Corcoran	x	x	x	x		
2020-012	2020 Wayzata HS Parking Lot Improvements	Plymouth	x	x				
2020-013	Territorial Greens West	Maple Grove	x	x		x		x
2020-014	Territorial Greens East	Maple Grove	x	x				
2020-015	Dayton Interchange Business Center	Dayton	x	x		x		x
2020-016	Lennar Territorial Road Development (Skye Meadow)	Rogers	x	x	x	x		x
2020-017	Meadow View Townhomes	Medina	x	x	x	x		x
2020-018	Minnesota Health Village Street Wetland Restoration	Maple Grove						
2020-019	Sundance Greens 4th Addition	Dayton	x	x	x	x		x
2020-020	Crow-Hassan Riverbank Stabilization	Rogers		x	x			
2020-021	Industrial Boulevard Extension	Rogers	x	x	x			
2020-022	Elm Road Area Project Street and Utilities Project	Maple Grove	x	x	x	x	x	
2020-023	Ziegler Dayton Site Upgrades	Dayton	x	x		x		x
2020-024	Walti Culvert Exchange	Corcoran						

*Rule D – Stormwater
Rule E – Erosion Control

Rule F – Floodplain
Rule G – Wetlands

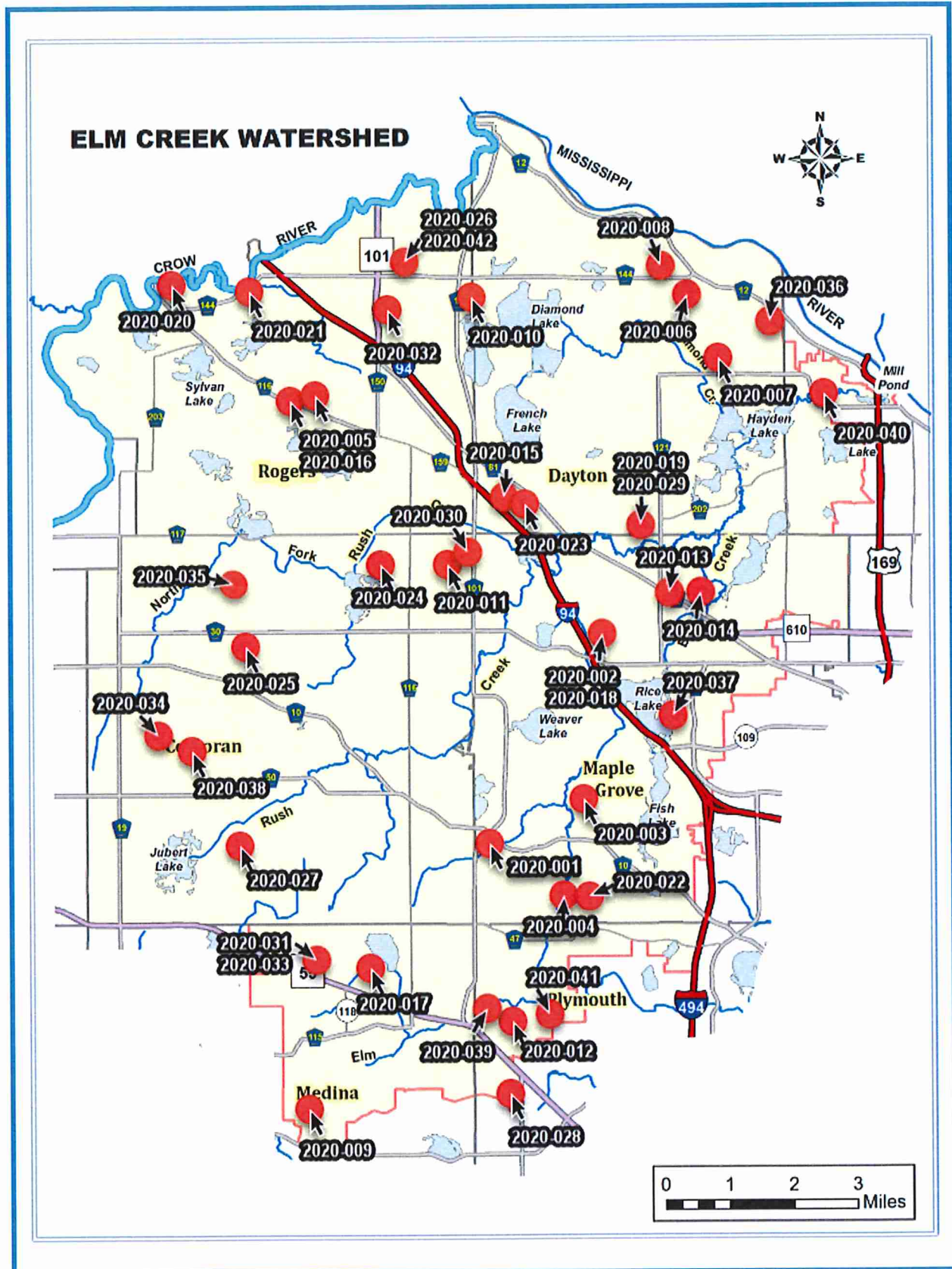
Rule H – Bridge, Culvert Crossing
Rule I – Buffers

Project Number	Rate Control (cfs) (pre- and post-development)			Net Change Nutrient Control (lbs./yr) (pre- and post-development)		Net Change			
	2-yr pre post	10-yr pre post	100-yr pre post	TP load #/yr re-reduction	TSS load #/yr reduction	Runoff volume (AF/yr)	Abstraction (CF)	Filtration/biofiltration (CF)	Comments/notes
2017-039									
2018-033									
2019-001									
2019-026									
2019-031									
2019-032	19.8/10.2	38.7/24	83.0/66.0	-4.1	-34	6.4		28,000	
2020-001								Prior approval/documentation	
2020-002	72.7/14.0	137.7/52.7	382.6/122.9	-12.0	-3,304	84.3		317,100	
2020-003	3.5/3.0	7.8/7.7	18.1/16.8	-0.5	-163	5.04		7,035	
2020-004	76.1/67.7	166.7/158.3	370.1/338.7	-3.8	-2,307	31.7		84,424	
2020-005									EAW
2020-006	1.4/1.4	2.1/2.0	4.2/4.0	See comments		0	35,800	TP/TSS met by abstraction	
2020-007	38.6/37.7	76.3/71.2	153.5/139.1	-0.4	-572	4.03		24,000	
2020-008	2.9/2.9	11.2/9.5	32.7/31.5	-0.6	-1,288	7.71	242,629		
2020-009	9.4/6.9	21.2/20.4	50.6/50.6	0	-44	N/A		2408	Abstraction thru excess buffer
2020-010	23.3/15.0	41.4/35.6	146.2/62.1	-0.5	-3,155	12.8		36,063	
2020-011								Regional facilities from 2018-032	
2020-012							2,960 (irrigation)	Regional facilities from 2015-013	
2020-013	22.8/14.5	45.3/36.3	96.4/74.8	0	-764	-11.0		19,963	
2020-014	9.5/3.4	21.6/10.0	47.2/19.4	-2.4	-458	8.44		24,830	
2020-015									denied
2020-016	196.9/95.3	334.2/188.7	614.9/376.4	-20.9	-3,543	50.8		177,942	
2020-017	39.7/10.9	79.4/30.7	144.9/65.3	-13.5	-3,171	-0.49	81,239		irrigation
2020-018									WCA
2020-019									Rule E only
2020-020								Rules E&F only	
2020-021	4.2/3.4	14.5/11.3	150.6/133.8	-3.8	-1,243	-1.45	29,795		
2020-022	29.3/28.5	41.2/40.3	61.1/58.9	-2.9	-39	4.78		20,240	
2020-023	9.1/6.2	16.8/15.7	30.4/21.2	-1.2	-17	2.09		10,431	
2020-024								Rules E&F only	

Projects Reviewed in 2020

Project Number	Project Name	City	Reviewed for Rules*					
			D	E	F	G	H	I
2020-025	Paulsen Farms	Corcoran	x	x		x		x
2020-026	2020 Rogers HS Addition and Renovations	Rogers	x	x				
2020-027	Kariniemi Addition	Corcoran	x	x	x	x		x
2020-028	Perl Gardens	Plymouth	x	x				
2020-029	Sundance Greens 5th Addition	Dayton						
2020-030	Nelson International	Corcoran						
2020-031	Chippewa Rd Extension/Weston Woods EAW	Medina						
2020-032	Enclave Rogers - Commerce Boulevard	Rogers	x	x				x
2020-033	Weston Woods	Medina	x	x	x	x	x	x
2020-034	Erickson Residence- Strehler Road	Corcoran		x				
2020-035	Presteng Residence	Corcoran	x	x				
2020-036	Balsam Pointe	Dayton	x	x		x		x
2020-037	Rice Lake Elementary Addition	Maple GroveG	x	x				
2020-038	8310 Strehler Road (H Lindberg Residence)	Corcoran	x					
2020-039	Elm Creekside Hills Trail	Plymouth		x	x	x	x	x
2020-040	The Cedars of Elm Creek 3rd Addition	Champlin		x	x			
2020-041	Plum Tree East Drainage Improvement	Plymouth		x		x		
2020-042	2020 Rogers High School Athletic Field Replacement	Rogers	x	x				

Project Number	Rate Control (cfs) (pre- and post-development)			Net Change Nutrient Control (lbs./yr) (pre- and post-development)		Net Change			
	2-yr pre post	10-yr pre post	100-yr pre post	TP load #/yr re-reduction	TSS load #/yr reduction	Runoff volume (AF/yr)	Abstraction (CF)	Filtration/biofiltration (CF)	Comments/notes
2020-025									Withdrawn
2020-026	17.5/7.0	54.3/37.3	150.3/112.9	-0.13	-23	-0.15		Regional pond reductions	
2020-027	26.7/26.4	52.0/46.4	111.4/91.0	-1.5	-415	2.01		6.0	alt. credit
2020-028				-0.9	-672	3.95		36,416	
2020-029								incomplete	
2020-030	10.2/4.4	29.4/12.6	48.1/29.3	-0.3	-553	8.2		28,428	
2020-031									
2020-032				-3.1	-682			8,584 Regional storm pond for rate controls	
2020-033								incomplete	
2020-034								Rule E only	
2020-035	5.9/4.0	10.2/7.5	19.3/15.2	-0.75	-191	0.41	882	Abst. Alt credits	
2020-036	0/0	0.2/0.1	11.5/11.1	0	-17	0	34,300		
2020-037	13.5/3.2	25.7/6.9	54.1/14.1	-2.2	-474	N/A		7,325	
2020-038								Rule E only	
2020-039								Rules E,F,H only	
2020-040								Rules E&F only	
2020-041								Rule E only	
2020-042	25.3/24.8	60.1/59.3	138.7/137.1/	0	0	0		Regional pond	

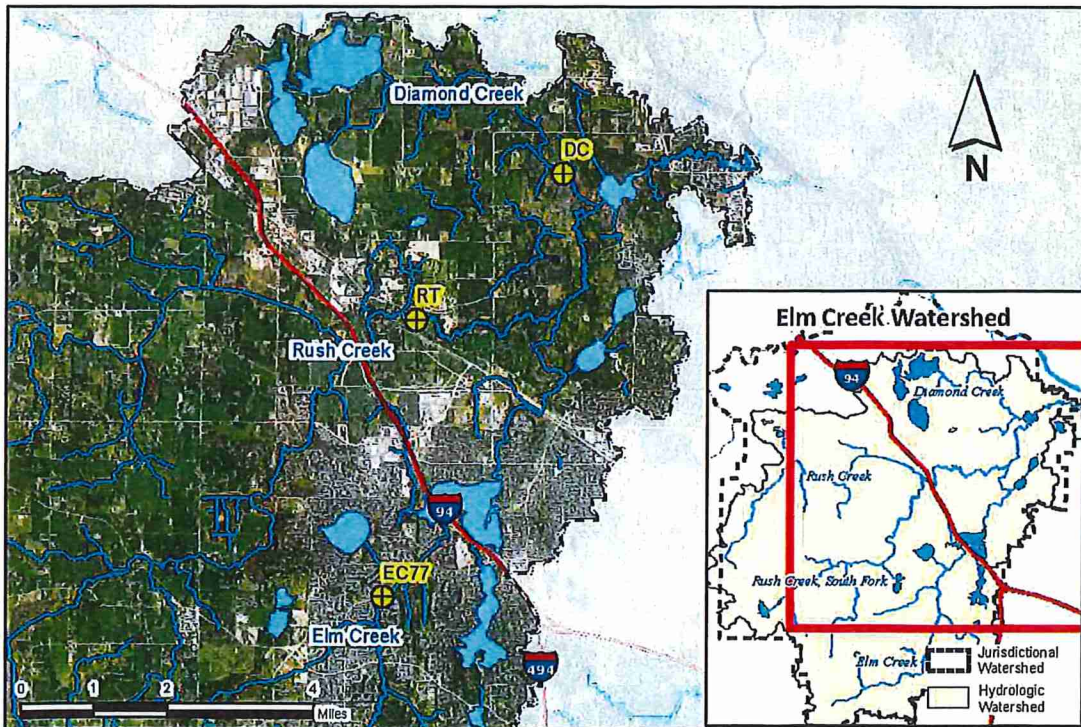


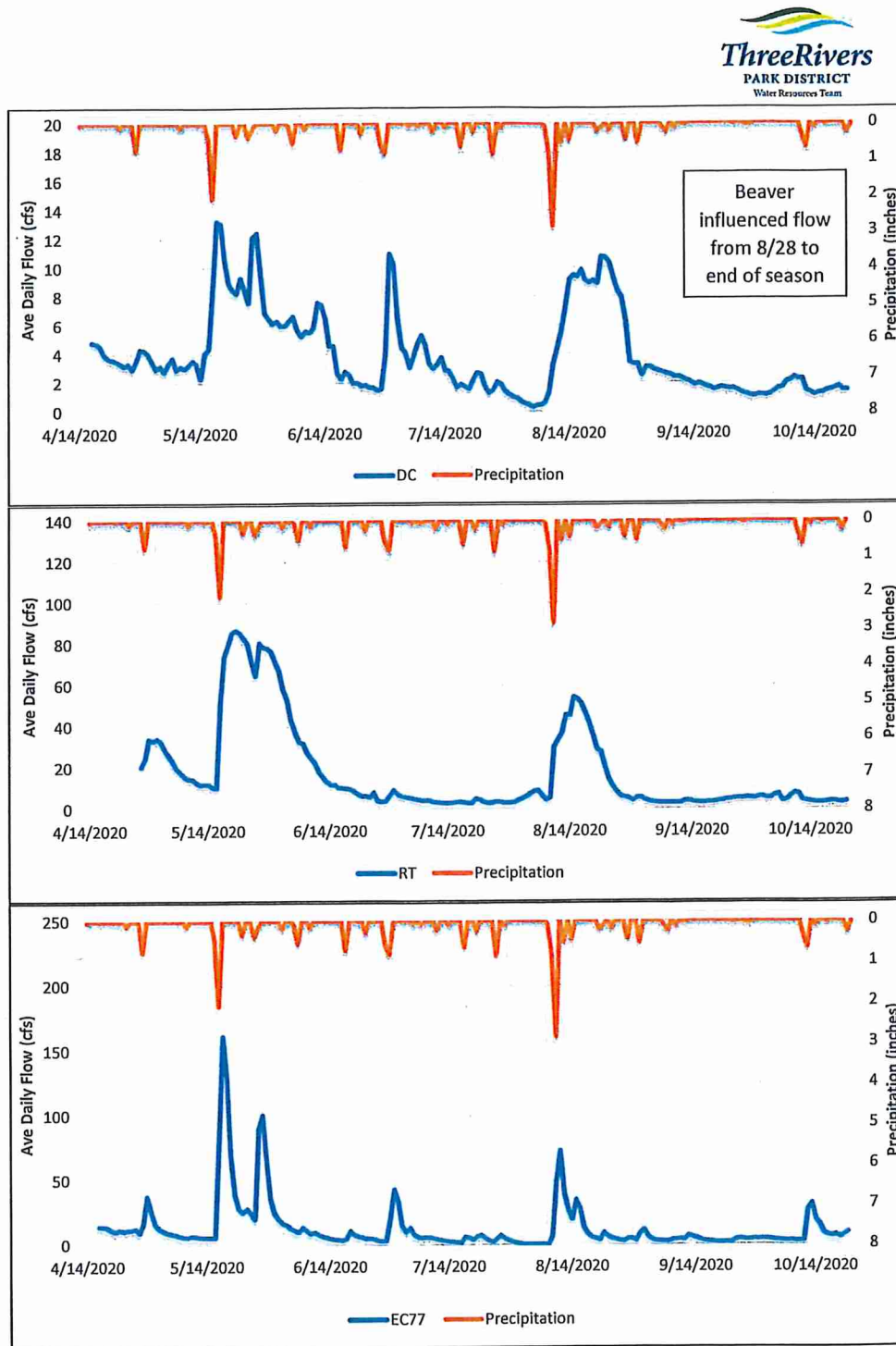


Elm Creek Stream Monitoring – 2020

Monitoring occurred from April 17, 2020 to October 23, 2020. During the monitoring period, there were 19 inches of rain. Three sites were monitored for flow:

- DC – Diamond Creek within Elm Creek Park Reserve
 - Average flow: 3.9 cfs
 - Minimum flow: 0.31 cfs
 - Maximum flow: 13.2 cfs
- RT – Rush Creek at Territorial Road
 - Average flow: 17.2 cfs
 - Minimum flow: 2.8 cfs
 - Maximum flow: 87 cfs
- EC77 – Elm Creek at Medicine Lake Regional Trail
 - Average flow: 13 cfs
 - Minimum flow: 0.0 cfs
 - Maximum flow: 162 cfs





2020 Stream Monitoring

United States Geological Survey

There are three hydrologic watersheds within the administrative boundaries of the Elm Creek Watershed Management Commission – Elm Creek, Crow River and Mississippi River. The Elm Creek watershed contains several large depressions and drainageways. Stormwater within Elm Creek watershed is generally directed from the south and west to northeast via four main drainage ways – Rush Creek, North Fork Rush Creek, Diamond Creek, and Elm Creek. These drainage ways converge in the Elm Creek Park Reserve and enter Hayden Lake. Water is eventually discharged to the Mississippi River near the Mill Pond in Champlin.

Northwest areas of Rogers drain to Crow River. Within this area, Fox Creek is the main drainage way that collects stormwater along the I-94 corridor and the area between I-94, Territorial Road and Fletcher Lane. Areas north of I-94 and along the Highway 101 corridor drain north to the Crow River, mostly along the corridor. The northern quarter of Dayton flows north into the Mississippi River with a small area on the northwest side of Dayton draining to the Crow River. There are no major drainageways in these areas.

Elm Creek has been monitored since 1976 by a station located in Champlin. The monitoring station for Elm Creek is located at Elm Creek Road crossing in the Elm Creek Park Reserve and is operated in cooperation with the United States Geological Survey (USGS). The exact location is: latitude 45°09'48", longitude 93°26'11" referenced to North American Datum of 1927, in NE ¼ NW ¼ Sec.35, T.120 N., R.22 W., Hennepin County, MN, Hydrologic Unit 07010206, on left bank, 33 feet downstream from bridge on Elm Creek Road, 2.5 mi southwest of Champlin. Datum of the gage is 850.70 ft above sea level (NGVD of 1929). The Commission shares the costs of operating the station, which collects continuous flow data and periodic event and base water quality data. The watershed area above the gauging station is 86 square miles, or 81% of the hydrologic watershed.

Both grab samples and storm runoff samples are collected and analyzed for various parameters. Analyses of the streamflow and water quality monitoring data for Elm Creek and its tributaries are summarized below. Real time data from the monitoring station in Champlin may be viewed on the Internet at

http://waterdata.usgs.gov/mn/nwis/uv/?site_no=05287890&PARAMeter_cd=00065,00060.

Flow Monitoring

Storm event samples are collected using an automatic sampler. Routine manual sampling occurs approximately monthly. The average mean discharge for the 2019 WY (October 1, 2018 through September 30, 2019) was 94.6 cfs. Note that WY 2019 had the highest average annual mean discharge in the 40-year history of the Elm Creek monitoring gage.

The average daily discharge for the 2020 water year (October 1, 2019 to September 30, 2020) is not available as of this update. County Road 202 (Elm Road) bridge replacement took place between November 2018 to June 2019 affecting the stage-discharge relationship (flows) at the monitoring station. This stage-discharge relationship has been rectified for this report.

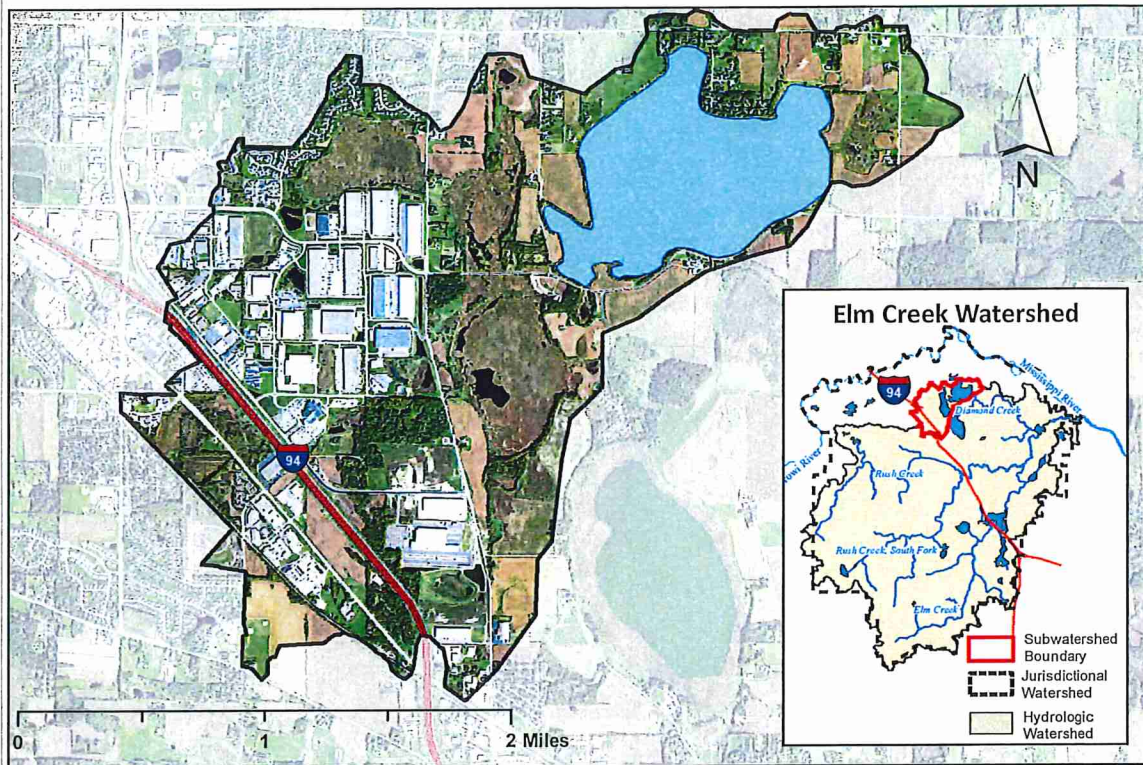
Final data shows an annual mean discharge of 94.6 cfs during the 2019 water year. The 2019 water year had prolonged flows that were higher and discharged more water downstream of the station than any time during the 40 years the station has been in place. During the 2019 water year the minimum and maximum observed average daily discharge values were 4.86 cfs on February 20, 2019 and 817 cfs on March 24, 2019. The long-term average daily discharge at the station is 43.6 cfs or 6.88 inches (years 1979-2019). A spreadsheet of the data received in 2019 water year (WY), including daily discharge and summary information, long-term flow volumes (calendar and water years), and the daily mean flow hydrograph follow.

Elm Creek Annual Instantaneous Peak Discharge Rates							
Date	Peak Flow (cfs)	Date	Peak Flow (cfs)	Date	Peak Flow (cfs)	Date	Peak Flow (cfs)
4/4/79	307	6/1/91	371	6/28/03	695	7/19/15	127
3/25/80	199	3/8/92	380	6/03/04	350	9/24/16	1,220**
6/15/81	44	6/22/93	315	10/30/04	118	5/23/17	482
4/3/82	471*	4/30/94	669*	10/09/05	295	4/25/18	405
3/9/83	408	3/17/95	237	3/17/07	223	3/24/19	836
2/25/84	341	3/19/96	407	5/4/08	205		
3/18/85	579*	4/1/97	511*	3/27/09	119		
3/27/86	812*	4/5/98	306	3/17/10	369		
8/1/87	185	5/15/99	538*	3/24/11	803		
3/27/88	39	7/13/00	112	5/29/12	568		
3/31/89	159	4/25/01	875	6/26/13	389		
8/1/90	225	5/11/02	554	5/1/14	803		

*These values have been revised based on the 2001 rating curve.

**All-time instantaneous peak discharge. The estimated 100-year flood discharge at this site is 2,290 cfs.

Diamond Lake Watershed Map



Diamond Lake Bathymetry



Lake and Watershed Characteristics

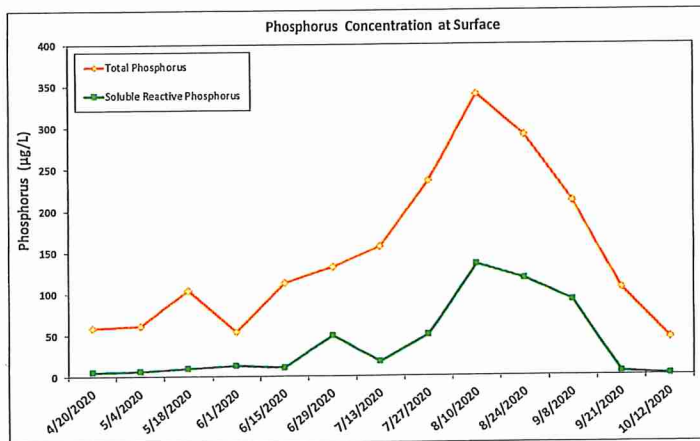
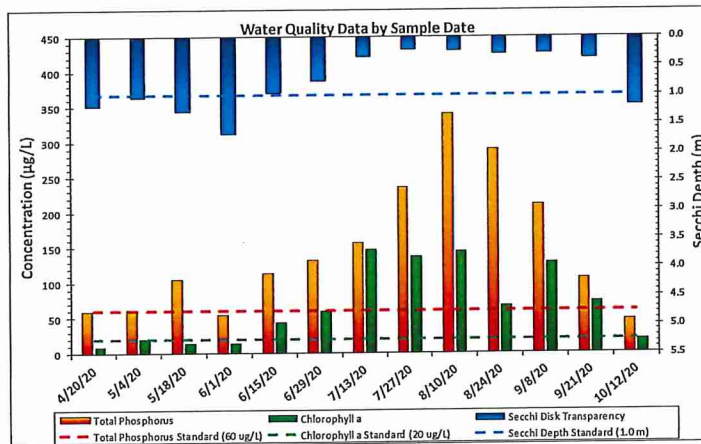
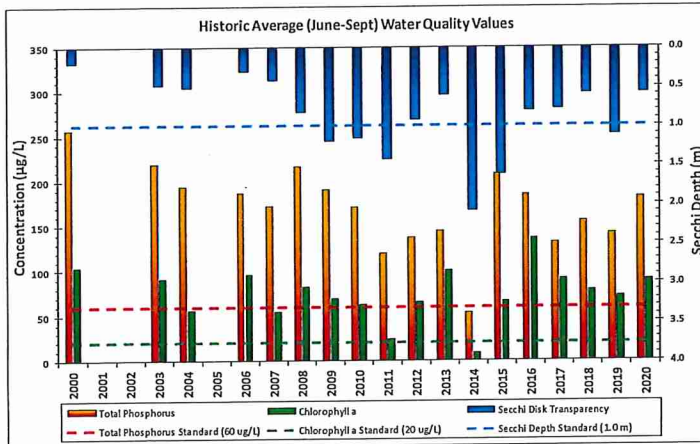
DNR #	27012500
Watershed Area	2,367 Acres
Lake Area	382 Acres
Percent Littoral Area	100%
Average Depth	3.97 ft.
Maximum Depth	7.37 ft.
Watershed Area:Lake Area	6.2:1
Impairment Classification	Excess Nutrients 2006
Classification	Shallow Lake

Water Resource Department
Map Created: 11/24/2017
Revised Date: 12/4/2017

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Three Rivers
PARK DISTRICT

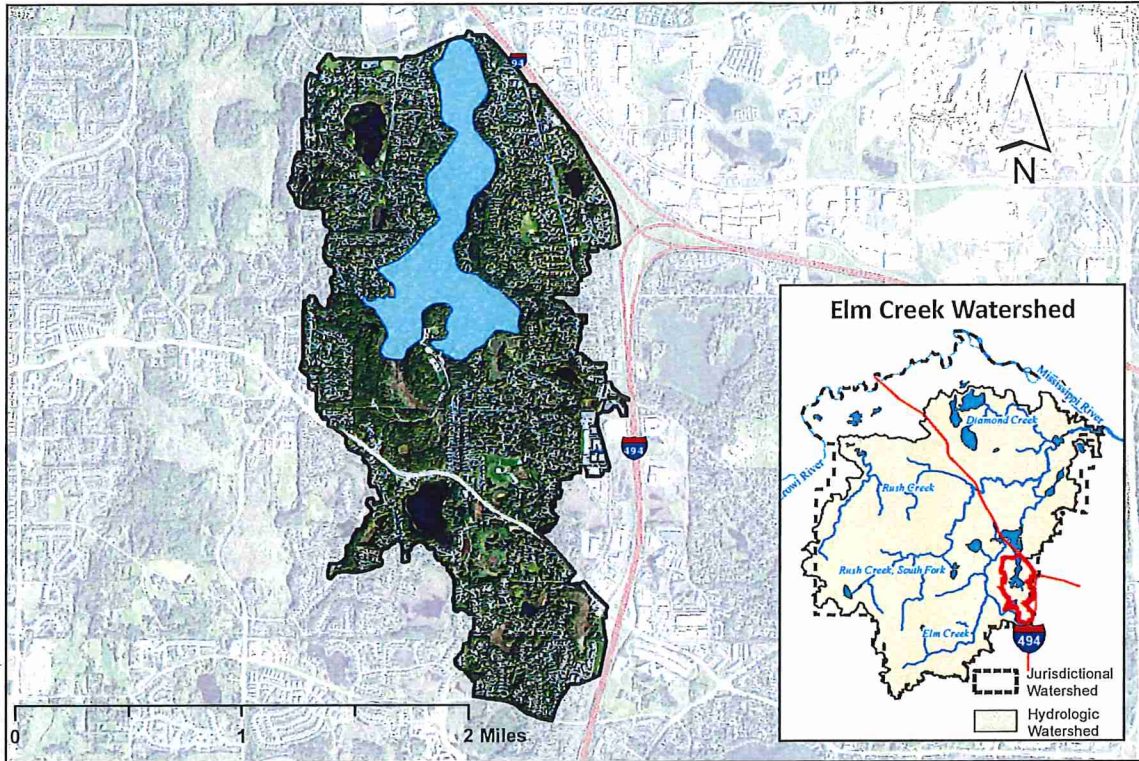
Diamond Lake



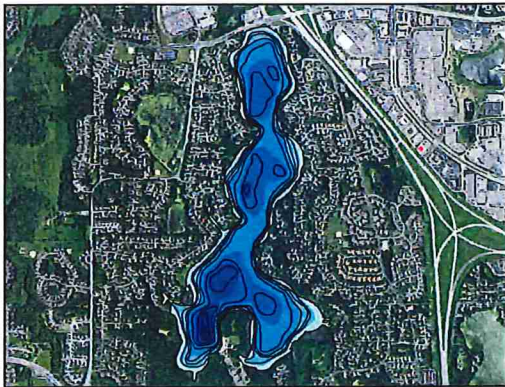
Diamond Lake Water Quality Report Card				
Year	TP	Chl-a	Secchi	Avg Grade
1998	D	D	F	D-
1999				
2000	F	F	F	F
2001				
2002				
2003	F	F	F	F
2004	F	D	F	F
2005				
2006	F	F	F	F
2007	F	D	F	F
2008	F	F	D	F
2009	F	D	C	D
2010	F	D	D	D-
2011	D	C	C	C-
2012	D	D	D	D
2013	D	F	F	F
2014	C	A	C	B-
2015	F	D	C	D
2016	F	F	D	F
2017	D	F	D	D-
2018	F	F	F	F
2019	D	D	D	D
2020	F	F	F	F
MPCA Standard	C	C	D	C-

Met Council Grading System for Lake Water Quality

Fish Lake Watershed Map



Fish Lake Bathymetry



Lake and Watershed Characteristics

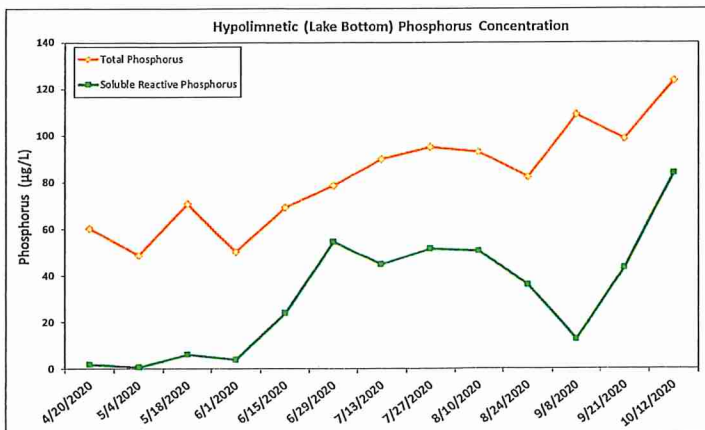
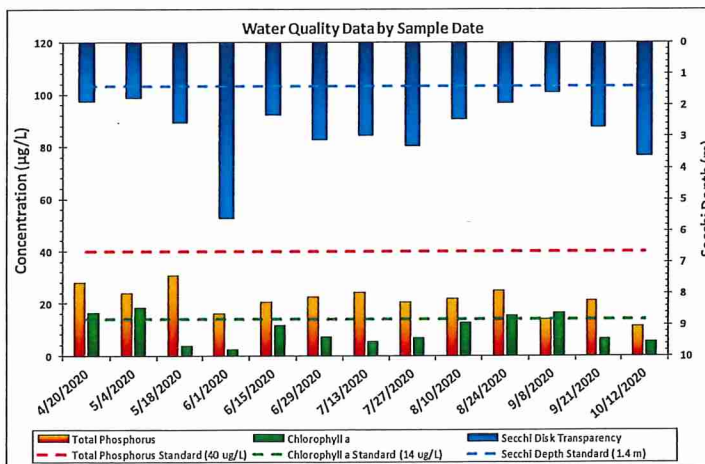
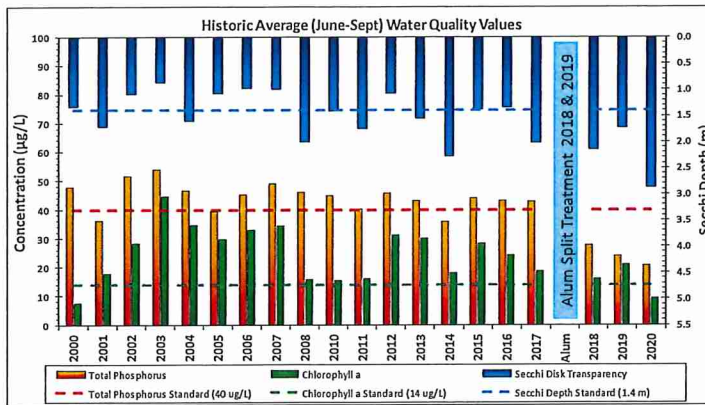
DNR #	27011800
Watershed Area	1,611 Acres
Lake Area	232 Acres
Percent Littoral Area	32%
Average Depth	20.5 ft.
Maximum Depth	62 ft.
Watershed Area:Lake Area	6.9:1
Impairment Classification Excess Nutrients 2008	
Classification	Deep Lake

Water Resource Department
Map Created: 11/24/2017
Revised Date: 12/6/2017

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Three Rivers
PARK DISTRICT

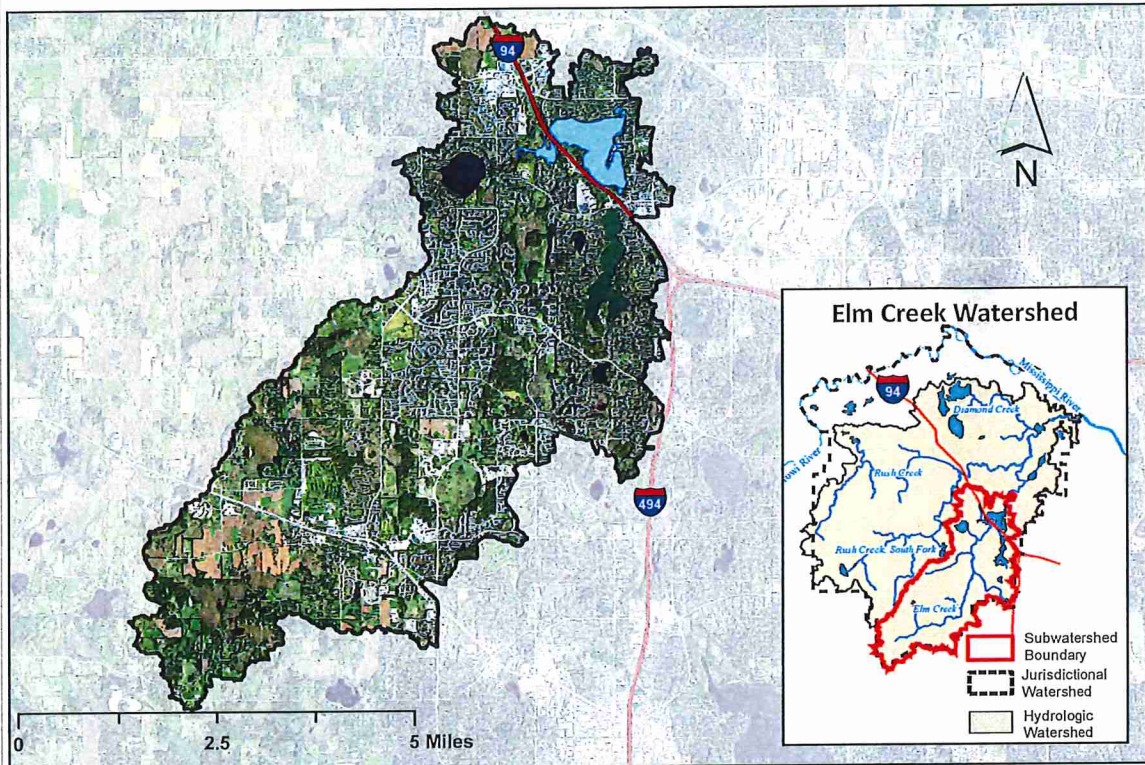
Fish Lake



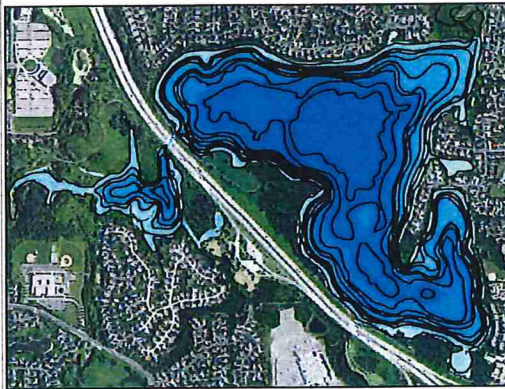
Fish Lake Water Quality Report Card				
Year	TP	Chl-a	Secchi	Avg Grade
1995			C	C
1996			B	B
1997	C	C	C	C
1998	C	B	C	C+
1999	C	B	C	C+
2000	C	A	C	B-
2001	C	B	C	C+
2002	C	C	D	C-
2003	C	C	D	C-
2004	C	C	C	C
2005	C	C	D	C-
2006	C	C	D	C-
2007	C	C	D	C-
2008	C	B	C	C+
2009	C	B	C	C+
2010	C	B	C	C+
2011	C	B	C	C+
2012	C	C	D	C-
2013	C	C	C	C
2014	C	B	B	B-
2015	C	C	C	C
2016	C	C	C	C
2017	C	B	C	C+
2018	B	B	C	B-
2019	B	C	C	C+
2020	A	A	B	A-
MPCA Standard	C	B	C	C+

Met Council Grading System for Lake Water Quality

Rice Lake Watershed Map



Rice Lake Bathymetry



Lake and Watershed Characteristics

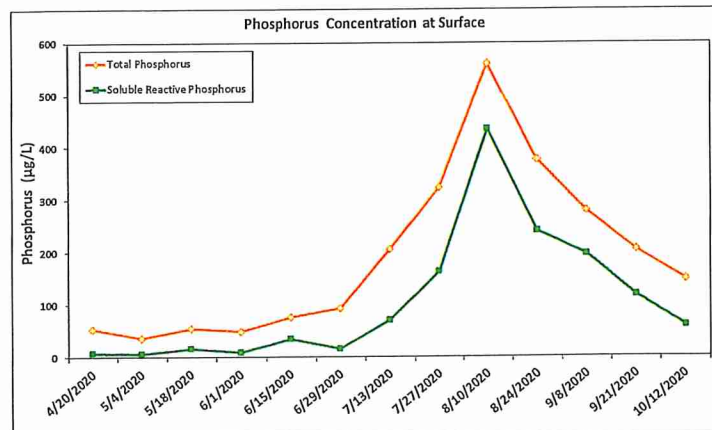
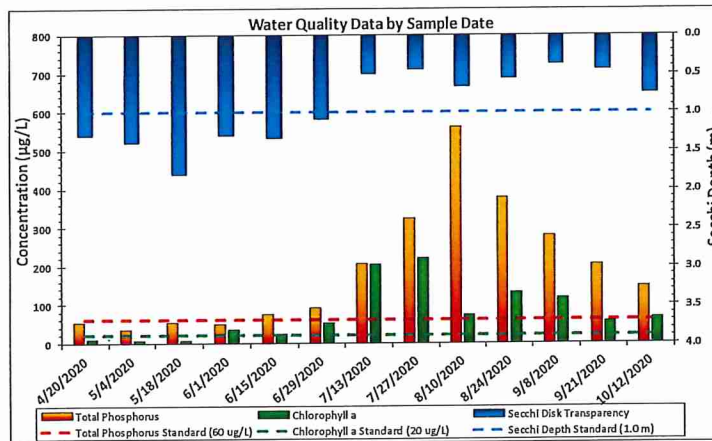
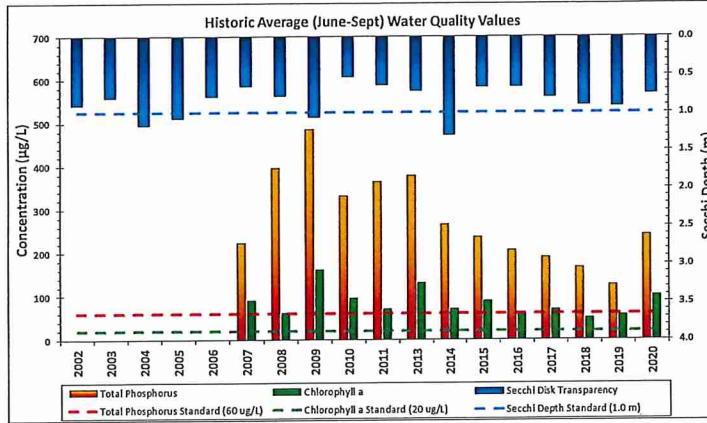
DNR #	27011601
Watershed Area	16,092 Acres
Lake Area	307 Acres
Percent Littoral Area	100%
Average Depth	7.02 ft.
Maximum Depth	10.14 ft.
Watershed Area:Lake Area	52.4:1
Impairment Classification	Excess Nutrients 2010
Classification	Shallow Lake

Water Resource Department
Map Created: 11/24/2017
Revised Date: 12/4/2017

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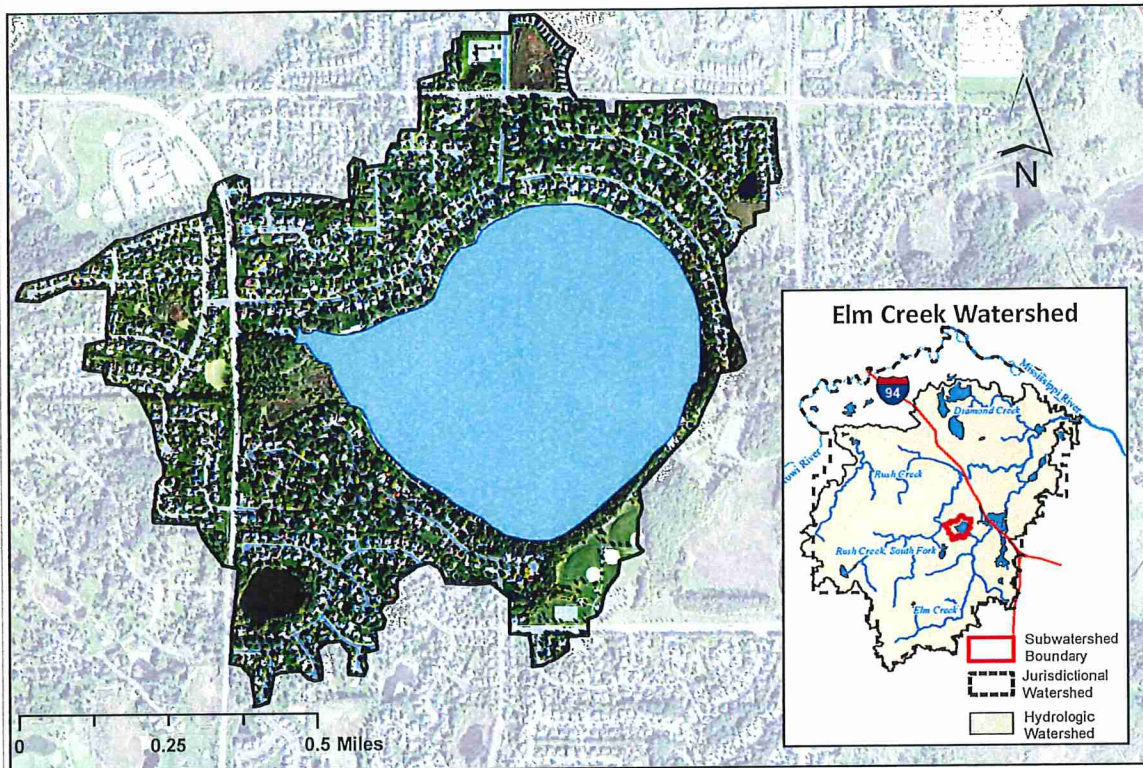
Rice Lake



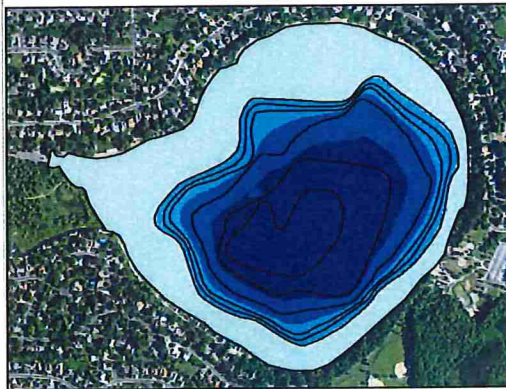
Rice Lake - Main Basin Water Quality Report Card				
Year	TP	Chl-a	Secchi	Avg Grade
2002			D	D
2003			D	D
2004			D	D
2005			D	D
2006			D	D
2007	F	F	F	F
2008	F	D	D	D-
2009	F	F	D	F
2010	F	F	F	F
2011	F	D	F	F
2013	F	F	D	F
2014	F	D	C	D
2015	F	F	F	F
2016	F	D	F	F
2017	F	D	D	D-
2018	F	D	D	D-
2019	D	D	D	D
2020	F	F	D	F
MPCA Standard	C	C	D	C-

Met Council Grading System for Lake Water Quality

Weaver Lake Watershed Map



Weaver Lake Bathymetry



Lake and Watershed Characteristics

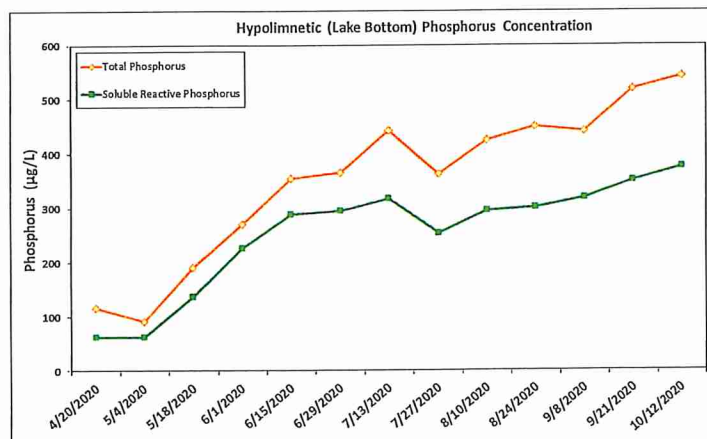
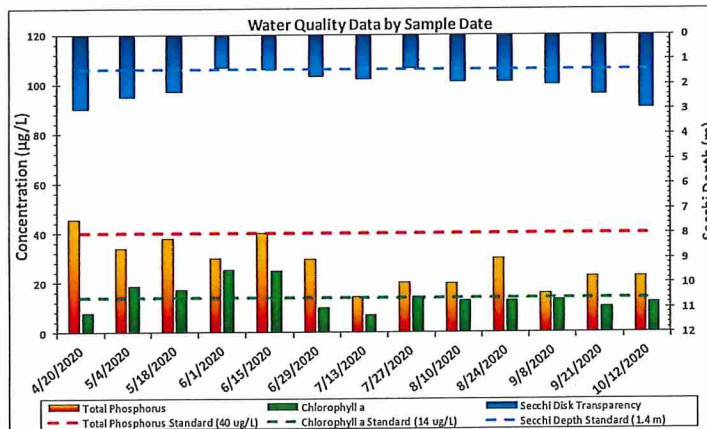
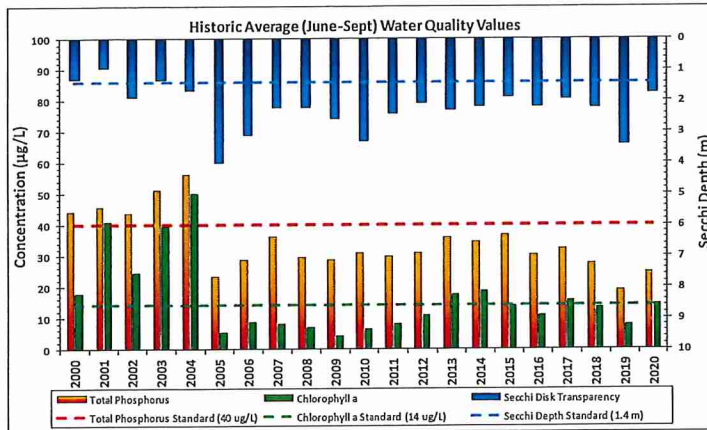
DNR #	27011700
Watershed Area	187 Acres
Lake Area	150 Acres
Percent Littoral Area	47%
Average Depth	21.1 ft.
Maximum Depth	52 ft.
Watershed Area:Lake Area	1.3:1
Impairment Classification	None
Classification	Deep Lake

Water Resource Department
Map Created: 11/24/2017
Revised Date: 12/4/2017

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Three Rivers
PARK DISTRICT

Weaver Lake



Weaver Lake Water Quality Report Card

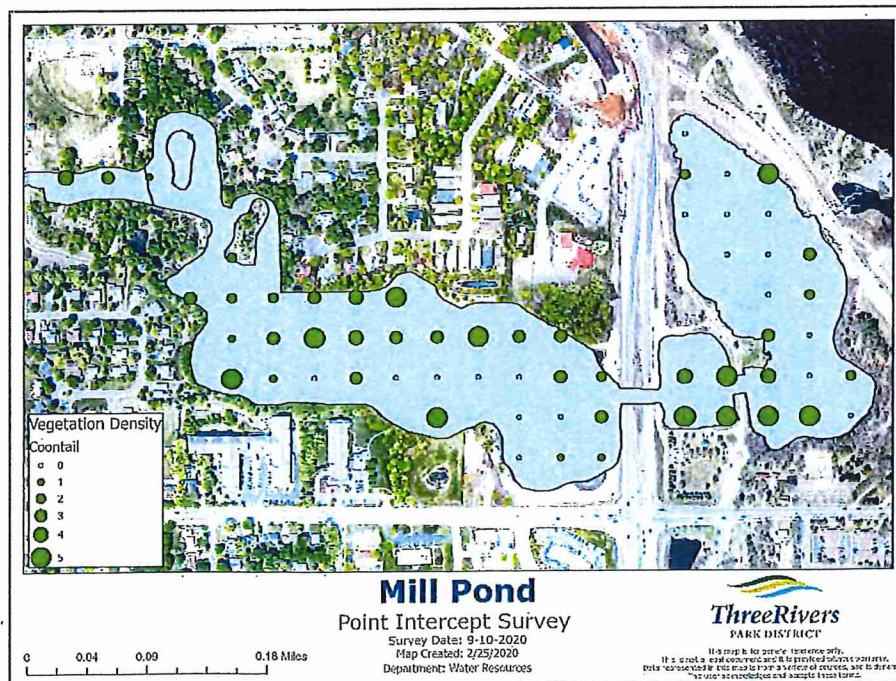
Year	TP	Chl-a	Secchi	Avg Grade
1997	B	A	C	B
1998	C	B	C	C+
1999	C	C	C	C
2000	C	B	C	C+
2001	C	C	D	C-
2002	C	C	C	C
2003	C	C	C	C
2004	C	D	C	C-
2005	B	A	A	A-
2006	B	A	A	A-
2007	C	A	B	B
2008	B	A	B	B+
2009	B	A	B	B+
2010	B	A	A	A-
2011	B	A	B	B+
2012	B	B	C	B-
2013	C	B	B	B-
2014	C	B	B	B-
2015	C	B	C	C+
2016	B	B	C	B-
2017	C	B	C	C+
2018	B	B	B	B
2019	A	A	A	A
2020	B	B	C	B-
MPCA Standard	C	B	C	C+

Met Council Grading System for Lake Water Quality

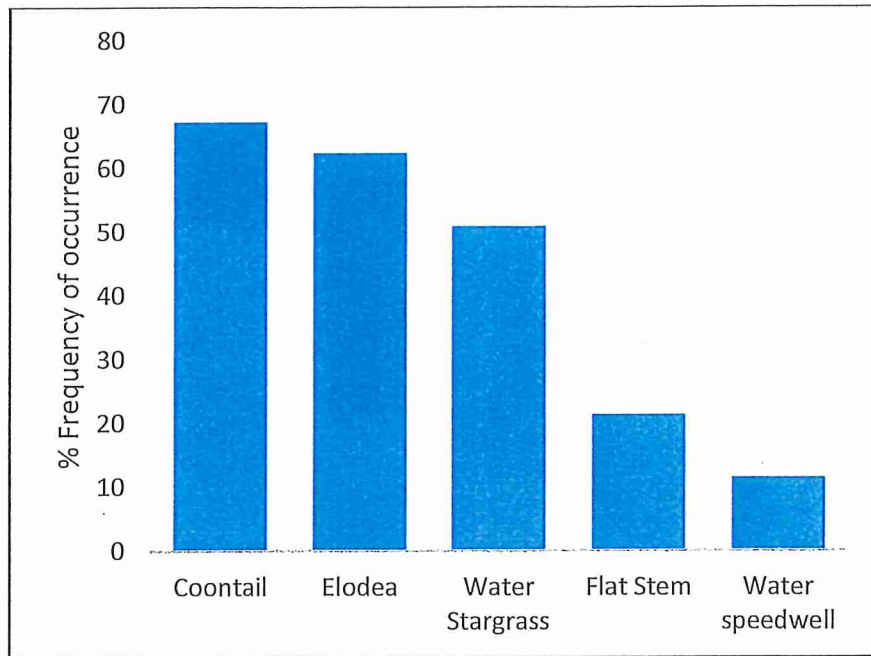
Champlin Mill Pond Point Intercept Rake Survey Results

September 2020

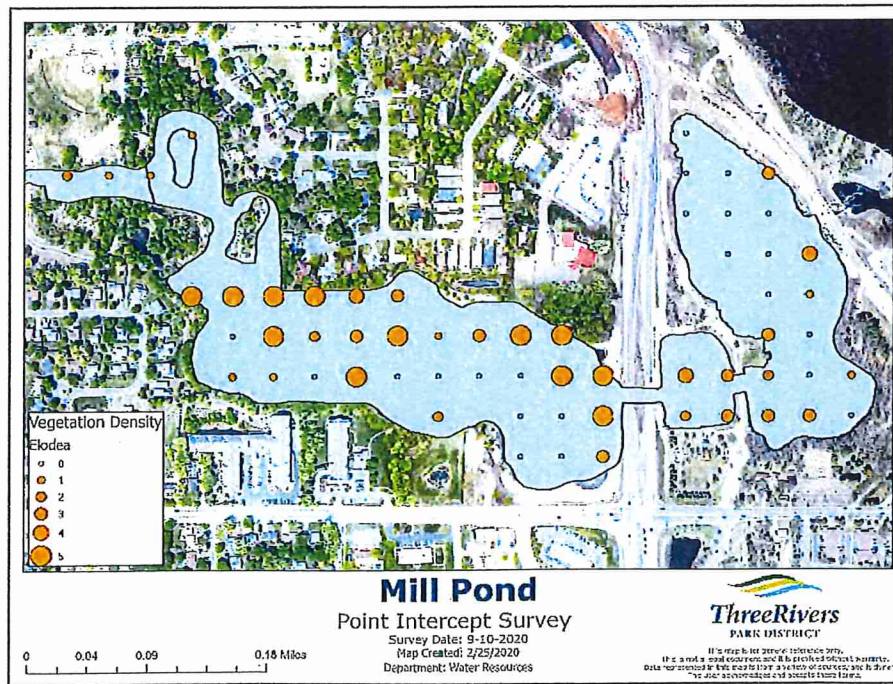
Scientific Name	Common Name	% Freq
<i>Ceratophyllum demersum</i>	Coontail	67
<i>Elodea canadensis</i>	Elodea	62
<i>Heteranthera dubia</i>	Water stargrass	51
<i>Potamogeton zosteriformis</i>	Flat stem pondweed	21
<i>Veronica anagallis-aquatica</i>	Water speedwell	11
<i>Ludwigia palustris</i>	Water purslane	8
<i>Potamogeton spp.</i>	Narrow pondweed	7
<i>Utricularia vulgaris</i>	Common bladderwort	5
<i>Potamogeton crispus</i>	Curly leaf	3
<i>Stuckenia pectinata</i>	Sago	3
<i>Valisneria Americana</i>	Water celery	2
<i>Nitella spp</i>	Nitella	2
% Frequency of submerged species		70
# Native/non-native submersed taxa		12/1



Coontail distribution and relative abundance.



Percent frequency of most common (>10% frequency) plants.



Elodea distribution and relative abundance.

Lake Monitoring History

	Cook	Cowley	Diamond	Dubay	Fish	French	Henry	Jubert	Laura	Medina	Mill Pond	Mud	Rice	Sylvan	Teal	Weaver
2020			T		T								T		C	T
2019			T		T								T			T
2018			T		T			C					T			T
2017			T		T			C					T			T
2016		C	T		T			C					T			T
2015			T		T			C	C				T			T
2014			T	C	T				C		T		T	C		T
2013			T	C		T			C		T		T	C		T
2012			T	C	T	T				C	T			C		T
2011			T	C	T	T	C				T		C			T
2010		C	T		T	T	C				T	T	C/T			T
2009		C	T		T	T	C				T		C			T
2008			T		T		C						C	C		T
2007		C	T		T		C						C			T
2006		C			T	T	C									T
2005					T	T	C									T
2004			T		T	T										T
2003																
2002					T	C					T					T
2001	T				T	C										T
2000					T			C								T
1999					T						T					T
1998			T		T											T
1997					T									T		T
1996					T											T
1995					T		C									T
1994			C		T											T
1993					T											T
1992	T		T		T											T
1991					T			T			T					T
1990	T				T	T										T
1989			T	T	T			T								T
1988	T				T						T					T
1987					T			T								T
1986	T		T	T	T							T				T

T = monitored by Three Rivers Park District

C = monitored through CAMP program

CITIZEN-ASSISTED MONITORING PROGRAM (CAMP)

Engaging residents to address lake water quality issues



The Metropolitan Council's Citizen-Assisted Monitoring Program (CAMP) is a partnership to collect and analyze scientifically valid water-quality data from lakes in the seven-county Twin Cities area. Organizations and residents use the data to make better decisions about lake management.



[Citizen-Assisted Monitoring Program Brochure \(pdf\)](#)

Under CAMP, sponsor organizations recruit volunteers to track water quality in local lakes. Sponsor organizations include counties, cities, watershed districts and other local governments.

Each volunteer monitors a specific site on a lake on a regular basis from mid-April through mid-October (every two weeks is most common). Volunteers collect a surface water sample, measure water temperature and clarity, and report weather and lake conditions.

With help from their sponsors, volunteers provide the data and samples to Metropolitan Council Environmental Services (MCES). MCES analyzes the samples, reviews and analyzes data, assesses and reports on current lake conditions, and manages the CAMP program. CAMP is part of Met Council's [Lake Monitoring & Assessment Program](#).

Q. What are the results and how do they compare to other lakes?

A. Each lake site is given a grade (A – F) based on the TP, CLA, and water clarity results. The grades give a relative comparison of the open water quality of the lake to other lakes in the Twin Cities metro area. A lake with a C grade is considered to have average water quality for the metro area, whereas A lakes are much above average and F lakes are much worse than average.

Q. What do those results mean?

A. CAMP monitoring focuses on the assessment of eutrophication, which is the process of nutrient enrichment. Excessive nutrient enrichment is an increase in phosphorus and nitrogen in lake water which causes increased aquatic plant growth and algae blooms, which in turn can deplete oxygen and negatively affect recreation and aquatic life habitat. Human activities in the watersheds of lakes (for example, nonpoint sources) increase the delivery of nutrients to lakes beyond what occurs naturally. This acceleration of nutrient enrichment by humans is called *cultural eutrophication*. During cultural eutrophication, the population of algae increases and water clarity decreases. A variety of other problems may develop, including increases in nuisance algal blooms, odor problems, decreased desirability for recreation, decreased dissolved oxygen, fish kills, changes in the structure of fish and invertebrate communities toward low-oxygen tolerant species, and reductions in biodiversity. Furthermore, eutrophic lakes can develop blooms of toxic blue-green algae (cyanobacteria), which can be a serious health concern for humans and animals (domesticated and wild). Cultural eutrophication is one of the leading water quality concerns facing the region.

2020 Education and Public Outreach

Watershed PREP is a program of the West Metro Water Alliance (WMWA), a consortium of four WMOs including the Elm Creek Watershed Management Commission and the Bassett Creek, Shingle Creek and West Mississippi WMOs, and stands for **Protection, Restoration, Education, and Prevention**. 2019 was the sixth year of the program. Two persons with science education backgrounds serve as contract educators to be shared between the member WMOs. The focus of the program is two-fold - to present water resource-based classes to fourth grade students and to provide education and outreach to citizens, lake associations, civic organizations, youth groups, etc.

Fourth Grade Program. Three individual classes meeting State of Minnesota education standards have been developed. **Lesson 1, *What is a Watershed and Why do we care?***, provides an overview of the watershed concept and is specific to each school's watershed. It describes threats to the watershed. **Lesson 2, *The Incredible Journey***, describes the movement and status of water as it travels through the water cycle. **Lesson 3, *Stormwater Walk***, investigates movement of surface water on school grounds. The ultimate goal is to make this program available to all fourth graders in the four WMWA watersheds and to other schools as contracted. The program is offered to public, private, parochial, magnet and charter schools.

Watershed PREP Program participation.

Year	# Classrooms	# Students	# and Type of Schools
Lesson 1			
2013	63	1,679	13 in six districts; one charter school; one parochial school
2014	116	3,469	30 in seven districts; one magnet school; one parochial school
2015	122	3,183	36 in nine districts; two charter schools; five parochial schools
2016	107	2,850	29 in seven districts, one charter school, 5 parochial schools
2017	121	3,249	12 in seven districts, one charter school, one parochial school
2018	143	3,593	32 in seven districts, one charter school, 2 parochial schools
2019	103	2,681	27 in six districts, two magnet schools; one parochial school
2020*	20	572	6 in four districts, two magnet schools
Lesson 2			
2013	14	390	Three in three districts; one charter school; one parochial school
2014	22	645	Five in three districts
2015	27	859	Six in five districts
2016	20	524	Five in three districts, one parochial school
2017	38	1,072	Seven in three districts, one parochial school
2018	69	1,755	16 in five districts, one parochial school
2019	58	1,516	16 in five districts, one magnet school
2020*	7	172	2 in two districts

*In 2020, Watershed PREP classes were limited by the constraints of the COVID-19 pandemic that closed schools. In some cases, Watershed PREP classes were conducted virtually.

2020 schools and students participating in Lesson 1: What is a Watershed?

Date	School	School District	City	Watershed	Classes	Students
1/9	Neill Elementary	Robbinsdale	Crystal	Bassett	3	60
3/4	Hassan	Elk River	Rogers	Elm	4	112
3/13	Sunset Hill	Wayzata	Plymouth	Bassett	4	110
10/4-5	Weaver Lake	Osseo	Maple Grove	Elm	6	90
12/8	SEA Magnet	Robbinsdale	Golden Valley	Bassett	3	80
12/9	Immersion	Robbinsdale	New Hope	Bassett		120
				Total	20	572

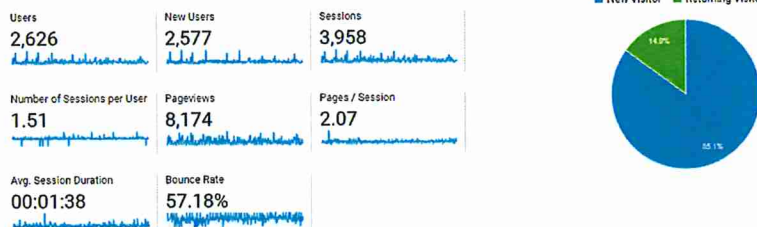
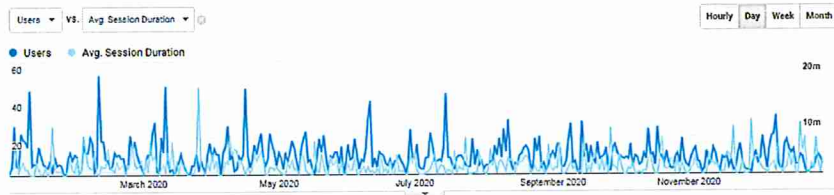
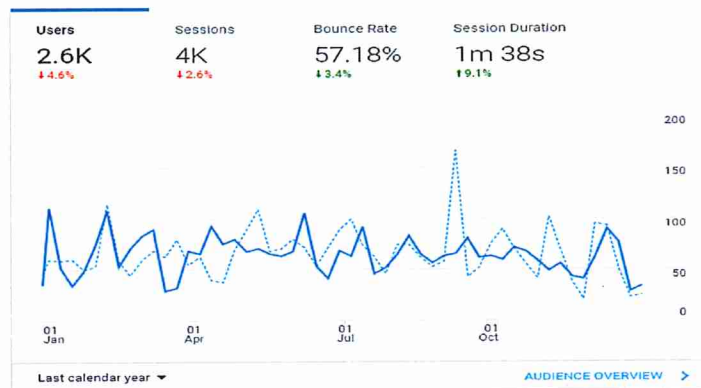
2020 schools and students participating in Lesson 2: The Incredible Journey

Date	School	School District	City	Watershed	Classes	Students
1/8	Neill Elementary	Robbinsdale	Crystal	Bassett	3	61
3/3	Hassan	Elk River	Rogers	Elm	4	111
				Total	7	172

One of the WMWA educators, has converted classroom Lesson #1 into a virtual, on-line learning experience. The lesson is posted to the WMWA website and to YouTube where it is available to educators, students, and the general public. She also sent out a link to the video to the teachers that she and the other educators have worked with in the classroom. The video can be viewed at westmetrowateralliance.org/.

www.elmcreekwatershed.org

In 2020 the website had 2,626 total users; of these, 2,577 were new users in 2020. A total of 3,958 sessions occurred among all users; averaging 2.07 pages per session.



Page	Pageviews	Unique Pageviews	Avg. Time on Page	Entrances	Bounce Rate	% Exit
	8,174 % of Total: 100.00% (8,174)	6,796 % of Total: 100.00% (6,796)	00:01:32 Avg for View: 00:01:32 (0.00%)	3,958 % of Total: 100.00% (3,958)	57.18% Avg for View: 57.16% (0.00%)	48.42% Avg for View: 48.42% (0.00%)
1. /	2,261 (27.66%)	1,844 (27.13%)	00:00:54	1,735 (43.84%)	32.22%	32.38%
2. /minutes-meeting-packets.html	1,131 (13.84%)	857 (12.61%)	00:03:37	464 (11.72%)	79.96%	69.32%
3. /lakes.html	529 (6.47%)	454 (6.68%)	00:02:58	423 (10.65%)	87.94%	79.40%
4. /application-requirements.html	459 (5.62%)	399 (5.87%)	00:03:17	131 (3.31%)	73.28%	67.32%
5. /locations-and-maps.html	360 (4.40%)	311 (4.58%)	00:02:47	128 (3.23%)	60.16%	55.28%
6. /project-reviews-overview.html	333 (4.07%)	292 (4.30%)	00:01:51	41 (1.04%)	68.29%	45.95%
7. /staff.html	319 (3.90%)	270 (3.97%)	00:01:29	111 (2.80%)	70.27%	55.49%
8. /meetings.html	289 (3.54%)	256 (3.77%)	00:00:51	167 (4.22%)	31.74%	29.41%
9. /history.html	238 (2.91%)	196 (2.88%)	00:04:04	171 (4.32%)	85.96%	71.01%
10. /contact-us.html	225 (2.75%)	200 (2.94%)	00:01:20	31 (0.78%)	87.10%	42.67%

Show rows: 10 Go to: 1 1-10

Elm Creek Watershed Management Commission

2020-2021 Operating Budgets *page 1*

		2020 Budget		2021 Budget
GENERAL OPERATING BUDGET				
Operating Expenses				
	Administrative	90,000		95,000
	Watershed-wide TMDL Admin	300		0
	Grant Writing	1,000		650
	Website	3,000		2,000
	Legal Services	2,000		2,000
	Audit	5,000		5,000
	Insurance	3,900		3,800
	Technical Support – HCEE	15,000		12,000
	Contingency	1,000		1,000
	Subtotal	121,200		121,450
Project Reviews				
	Technical – HCEE/Barr/SWS	0		0
	Technical – HCEE – Floodplain Modeling	39,360		0
	Technical Support – Consultant	185,000		185,000
	Admin Support	15,000		12,000
	Subtotal	239,360		197,000
Wetland Conservation Act				
	WCA Expense – HCEE	3,000		0
	WCA Expense – Legal	500		0
	WCA Expense – Admin	1,000		0
	Subtotal	4,500		0
Water Monitoring				
	Stream Monitoring			
	Stream Monitoring – USGS	24,000		24,000
	Stream Monitoring – TRPD	0		
	Extensive Stream Monitoring	7,200		7,200
	DO Longitudinal Survey	1,000		1,000
	Gauging Station – Elec Bill	250		400
	Rain Gauge Network	100		0
	Lake Monitoring			
	Lake Monitoring - CAMP	760		760

Elm Creek Watershed Management Commission

2020-2021 Operating Budgets *page 2*

				2020 Budget		2021 Budget
		Lake Monitoring - TRPD				
			Sentinel Lakes	8,100		8,100
			Additional lake	2,500		2,500
			Aquatic Vegetation Surveys	1,100		1,100
		Source Assessment				
		Watershed-wide TMDL – Follow-up - TRPD		1,000		
		Wetland Monitoring - WHEP		4,000		4,000
			Subtotal	50,010		49,060
		Education				
		Education - City/Citizen Programs		3,000		2,500
		WMWA General Admin		5,000		5,000
		WMWA Implementation Activities incl Watershed PREP		6,500		6,500
		R Garden Workshop/Intensive BMPs		3,000		3,000
		Education Grants		1,000		1,000
		Macroinvertebrate Monitoring-River Watch		3,000		3,000
		Ag Specialist				
			Subtotal	21,500		21,000
		Management Plan				
		Plan Amendments		2,000		2,000
		Contribution to 4th Generation Plan				10,000
			Subtotal	2,000		12,000
		CIPs, Grants, Special Projects, Studies				
		Capital Outlay - CIPs - Ad Valorem		448,935	\$423,323 adjusted for admin exp, levy shortfall	175,000
		Grants		125,000		125,000
		Projects ineligible for ad valorem		0	\$50,000 (2019) reassigned to Genl Fund 5/8/2019	0
		Studies, Subwatershed Assessments		0		0
			Subtotal	573,935		300,000
		Contingency		0		0
			Subtotal	0	0	
Total Op Expense				1,012,505		700,510

Elm Creek Watershed Management Commission

2020-2021 Operating Budgets page 3

			2020 Budget		2021 Budget
Revenue					
	CIPs - Ad Valorem		448,935		185,588
	Grant Revenue		100,000		100,000
	Floodplain Modeling		39,360		
	Project Review Fees		80,000		100,000
	Water Monitoring - TRPD Co-op Agreement		5,500		5,500
	WCA Fees		0		0
	Forfeited/Reimbursed Sureties, Reimbursement from LGUs				
	Membership Dues		237,300		237,300
	Interest Income		8,000		15,000
	Dividend Income		250		250
	Miscellaneous Income		0		0
		Total Operating Revenue	919,345		643,638
		Surplus (Deficit)	93,160		56,872

**Elm Creek Watershed Management Commission
2020-2021 Member Assessments**

2020	2019 Taxable Market Value	2020 Budget Share		Increase over Previous Year	
		%age	Dollars	%age	Dollars
Champlin	540,590,344	4.12%	9,768.39	6.97%	284
Corcoran	865,123,487	6.59%	15,632.66	2.56%	455
Dayton	749,481,401	5.71%	13,543.02	8.87%	394
Maple Grove	6,614,821,616	50.37%	119,528.89	1.93%	3,476
Medina	1,050,664,076	8.00%	18,985.35	-1.42%	552
Plymouth	1,418,363,351	10.80%	25,629.62	11.11%	745
Rogers	1,893,322,435	14.42%	34,212.07	0.65%	995
Totals	13,132,366,710	100.00%	237,300.00	2.99%	6,900
2021	2020 Taxable Market Value	2021 Budget Share		Increase over Previous Year	
		%age	Dollars	%age	Dollars
Champlin	586,080,150	4.13%	9,801.07	3.34%	33
Corcoran	945,017,350	6.66%	15,803.61	4.12%	171
Dayton	859,590,989	6.06%	14,375.02	9.32%	832
Maple Grove	7,002,119,108	49.35%	117,097.09	0.90%	-2,432
Medina	1,117,455,738	7.87%	18,687.32	1.38%	-298
Plymouth	1,634,614,359	11.52%	27,335.81	9.85%	1,706
Rogers	2,045,081,387	14.41%	34,200.09	2.96%	-12
Totals	14,189,959,081	100.00%	237,300.00	0.00%	0

elm creek Watershed Management Commission

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STAFF REPORT

April 6, 2021

- a. 2017-050W Ernie Mayers Wetland/floodplain violation, Corcoran.** The City of Corcoran contacted the Commission in December 2017 concerning drainage complaints on Mayers' property. Technical Evaluation Panels (TEPs) were held in 2017 and 2018 to assess the nature and extent of the violations and a restoration order was issued to Mayers. On October 30, 2018, an appeal of the restoration order was received by THE Board of Water and Soil Resources. BWSR placed an order of abeyance (stay) on the appeal looking for a resolution between the LGU and Mayers. On January 6, 2021, BWSR received an email from Corcoran that the LGU and Mayers were working towards resolving the restoration order. *BWSR gave the City and Mayers until April 5, 2021 to seek an informal resolution or furnish a complete copy of the record to them.*
- b. 2018-020 North 101 Storage, Rogers.** This is an existing 3-acre lot in the northwest corner of Highway 101 and CR144. The current land use is a combination of mini-storage units and outdoor storage. The site is proposed for complete demolition and construction of seven new mini-storage buildings. At their July meeting the Commission approved Staff findings dated July 9, 2018, pending four items relating to abstraction requirements and the infiltration system. The applicant requested and was granted an extension to *December 31, 2021*, provided the review process with the City of Rogers does not expire.
- c. 2019-024 Boston Scientific Weaver Lake Road, Building 2 East Addition, Maple Grove.** Boston Scientific is building an addition on the east side of Building 2 to provide more production and office space for their existing facility. The project includes moving the existing service drive and site utilities on the east side of Building 2 to the east within the Boston Scientific property to create space for the addition. About 1.9 acres of the site will be disturbed and 1.06 acres of impervious surface will be added. This project was reviewed for compliance with Rules D, E, F, and I. At their September 11, 2019 meeting the Commission approved the project contingent upon: (1) a site plan providing the irrigation areas to be irrigated by the new system and (2) an operation and maintenance plan for the irrigation system approved by the City and the Commission and recorded on the land title. *The applicant submitted plans with project 2021-001 that includes a revised stormwater management approach for this project, eliminating the irrigation system and modifying existing ponds to provide filtration. The Commission approved the revised stormwater management plan at their March 2021 meeting with no contingencies. This project will be removed from the report.*
- d. 2020-002 Project 100, Maple Grove, renamed Minnesota Health Village (MHV).** Ryan Companies is proposing to develop 100.6 acres of agricultural land into a mixed-use development consisting of office, medical, hospital, multi-family residential and senior living facilities. This site is situated between I-610 to the north, I-94 to the west and the Maple Grove Hospital to the east. The applicant is seeking approval of a regional stormwater management system to address the Commission's present-day requirements throughout the timeline for all phases of this development. Additionally, they are requesting grading and erosion control approvals for Phase I of the development.

Phase I site plans consists of mass grading of approximately 35 acres in the southeast portion of the site to accommodate street and utilities, 383 parking stalls for the existing hospital and future building in this

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area. The Commission reviewed the concept plan for compliance with Rule D. In addition, Staff reviewed Phase I for compliance with Rules D, E, G and I. At their March 2020 meeting the Commission approved this project contingent upon the following conditions: Phase I site plans: (1) Feasibility to infiltrate stormwater in the filter bench areas of ponds 1 and 2 must be determined. If infiltration is considered feasible, design revisions and compliance with MPCA infiltration design criteria is required and (2) City, MN WCA, and Commission compliance on any wetland impacts must be adhered to. These two items remain outstanding.

Concept Site Plans: The overall stormwater management concept plan design meets the Commission's standards provided. (1) Feasibility to infiltrate stormwater in the future filter bench areas and biofiltration basins is determined. If infiltration is considered feasible, design revisions and compliance with MPCA infiltration design criteria is required. (2) Commission Project review and approval are required when future site development triggers a review. These two items are considered on-going and will come forward as this site develops. No other information is necessary at this time.

For Phase I and the Concept Plans: The Commission recommends the management of stormwater runoff to minimize the impacts of the application of chloride compounds on water resources by minimizing their use on roads, parking lots, sidewalks and other impervious surfaces. Toward that end, the Commission requests that existing and future landowners develop and implement a chloride management plan on all private parking and walking areas within this project to minimize chloride runoff into surface water on site. The primary element of such a plan is implementation and application of salt to these surfaces by an applicator with MPCA Level 1 Certification in Snow & Ice Control Best Practices.

Note: The City of Maple Grove is looking at the feasibility to consolidate as many of the regional ponds for this site as possible while continuing to meet the regulations and goals of the approved plans. Commission staff will work with the City to ensure the Commission's requirements and approvals are compliant with any changes. This will be on-going as the site develops.

e. 2020-016 Skye Meadows, Rogers. Lennar Corporation is proposing to construct a residential development on 130 acres along Territorial Road. The site consists of six separate parcels located both north and south of Territorial Road (CR116) just west of Tilton Trail. 363 single-family residential units are proposed, creating 38.73 acres of new impervious areas in seven phases. The Commission's review will be for conformance to Rules D, E, F, G, and I for all seven phases. At their January 2021 meeting, the Commission approved this project contingent upon: final grading plans on Phase 1B complying with the Commission's low floor/100-year elevation requirements per Rule D 3i (7) criteria and storm pipe inlets FES 205 and 212 on basins H and I, and FES 304 on Basin K being extended to the NWL of the basin. *The applicant requested a variance for low floor elevations, which was reviewed under project 2021-002. The Commission approved the variance at their March 2021 meeting. This project will be moved to the final recordings section of the report.*

f. 2020-029 Sundance Greens 5th 6th Addition. This project is part of a larger residential development that was reviewed and approved as the Sundance Greens Development, project 2018-005. The full development covers 310 acres west of County Road 121 (Fernbrook Lane N.) in and around the Sundance Green Golf Course. The full development will construct 645 new single-family homes with 100 units proposed as a senior housing facility. The 5th Addition will grade 75 acres for 212 lots. The review verified consistency to the stormwater management plans, floodplain and wetland buffer plans that were approved as part of the original submittals for project 2018-005 and the updates to erosion controls. *Some updates to the SWMP were reanalyzed and found to be within acceptable limits of the original approvals. Following March 2021 updates to*

the erosion and sediment control plans, Staff administratively approved this addition. Due to platting changes, this project was renamed Sundance Greens 6th Addition.

g. 2020-033 Weston Woods, Medina. This project would create 150 residential units on a 135-acre site. The existing condition is undeveloped. The project will disturb 49.2 acres and create 17.49 acres of impervious area. *The Commission approved this project at their March 2021 meeting with four contingencies: a) Wetland replacement plans must be approved by the City of Medina (LGU), MN DNR and USACE prior to impacts, b) Provide quantification of the change in flood storage capacity for the one-percent annual chance flood event due to the proposed project, c) Provide documentation that changes in flood elevation and loss of floodplain storage have been avoided, minimized, and/or mitigated to the extent practicable. Demonstrate that changes in flood elevation will not cause high water or aggravate flooding on other land and, d) An O&M agreement for stormwater facilities, including irrigation pumping system components and augmentation wells system, must be approved by the City and the Commission and recorded within 90-days after final plat approval on the title to this property. A copy of the recorded agreements must be provided to the Commission. This item will be moved to the recordings section of this report.*

h. 2021-001 Boston Scientific MG Campus, Maple Grove. This project would construct a new access drive and expand an existing parking lot. The Maple Grove campus address is 1 Scimed Place. The application was reviewed for Rules D and E. The review includes stormwater management features for this project as well as projects 2019-024 and 2021-006. Combined, the three projects would disturb 29.2 acres and create 4.8 acres of new impervious area. Stormwater requirements would be met with existing ponds modified to provide an iron enhanced sand filter. The irrigation system for project 2019-024 will still be constructed but will not be relied upon to meet Rule D stormwater requirements. *The Commission approved all three projects at the March 2021 meeting. This project will be removed from the report.*

i. 2021-002 Skye Meadows Variance, Rogers. This project is a variance request for project 2020-016. The project would construct *approximately 345 single family residential lots*. Eleven of the proposed lots would not meet the two-foot minimum freeboard requirement above the high-water levels for adjacent waterbodies. The variance request documents the hardships that prevent the project from meeting this requirement. *The Commission approved the variance request at the March 2021 meeting and directed Staff to work with the applicant to prepare a variance resolution for approval at the April 2021 meeting.*

j. 2021-003 Cranberry Ridge, Plymouth. This project would construct an apartment building, parking lot and driveway access off Old Rockford Road. The existing site has two single-family residential structures that will be removed. The project would disturb 2.73 acres and create 1.06 acres of new impervious surface. Stormwater management will be provided with filtration basins. *The Commission approved this project at the March 2021 meeting. This project will be removed from the report.*

k. 2021-004 ~~Project 100 Phase 1~~, Roers Maple Grove Apartments, Maple Grove. This project is Phase 1 of Project 2020-002. This will be an administrative review for erosion and sediment controls and compliance with the approved stormwater management plan. Staff granted administrative approval for the project. *It will be removed from the report.*

l. 2021-005 WJD Two Thirds Addition, Rogers. This is a 14.8 residential project located on the south side of 137th Avenue North, approximately 400 feet west of Northdale Boulevard. Rachel Development is proposing 56 townhomes and a 134-unit apartment building on this property. The initial site grading and stormwater management was approved by the Commission under projects 2001-017 (WJD) and 2003-003

(The Rogers Retail Centre 2nd Addition). *This project was approved by the Commission at their March 2021 meeting with two conditions; a) buffer requirements meeting the Commission's standards and b) final SWPPP is provided prior to grading. This project will be moved to the recordings section of this report.*

m. 2021-006 Boston Scientific WL3 West Building, Maple Grove. This project would expand an existing building on the Boston Scientific Corporation Maple Grove campus at 1 Scimed Place. The project would disturb 5.3 acres and create 0.2 acres of new impervious. The project triggers Rule D and Rule E. Rule D was reviewed under project 2021-001. *The Commission approved this project at the March 2021 meeting. This project will be removed from the report.*

n. 2021-007 Birchwood 2nd Addition, Rogers. This project is east of CR13 (Brockton Lane) approximately 1/2 mile south of the intersection of CR 144 (141st Avenue North) and CR13. The applicant is proposing to develop the site into 30 single-family residential lots. The site drains south and east into Grass Lake. This work will disturb 10 acres and create 4.0 acres of new impervious area. Findings and a recommendation for approval, contingent upon final SWPPP submittal prior to grading are included in this month's packet.

o. 2021-008 Edgewater 3rd Addition, Rogers. This is an 18-acre site north of the intersection of Edgewater Parkway and Industrial Boulevard. The project construct 65 single-family residential lots. It would disturb 17.7 acres and create 6.89 acres of new impervious surface. Stormwater would be managed by a new infiltration basin and an existing regional stormwater pond. The project was reviewed for Rules D and E. Staff recommends approval.

p. 2021-009 Palisades at Nottingham 3rd Addition, Maple Grove. This is a 5-acre project located east of Zanzibar Lane approximately 400 feet north of the intersection with Nottingham Parkway. The applicant is proposing to develop the site into seven single-family residential lots. The site drains east into the Elm Creek basin. This work will disturb 3.5 acres and create 1.45 acres of new impervious area. Staff's review and findings are provided in this month's packet. Staff recommends approval conditioned upon final wetland replacement plan submittal, review by permitting agencies, and approval by the LGU prior to impacts.

q. 2021-010 Gleason Field, Maple Grove. This is an existing 45-acre City park located between Brockton (CR 101) and Vagabond Lanes at 67th Avenue. The City Parks Department is proposing to convert existing grass play fields into four artificial turf baseball/softball fields. The project also involves expanding an existing parking area, adding four park buildings, and playground amenities to the park. This work will disturb 23.5 acres and create 2.9 acres of new impervious areas. No recommendation is available for the Commission at this time. The applicant is working through revisions requested by the City engineering department. Updated findings and recommendations will be provided to the Commission if available.

r. 2021-011 Graco Building, Dayton. This is a 39-acre site south of French Lake Road, west of French Lake and south of Grass Lake. The project would construct a new building, new parking lots and an extension of French Lake Road as a private drive. The project would disturb 38.9 acres and create 18.2 acres of new impervious surface. The development plan for French Lake Industrial Center was approved as part of project 2015-011. The project's compliance with Rule D and Rule E is consistent with what was approved in 2015. Staff administratively approved the project.

s. 2021-012 The Oaks at Bauer Farm, Champlin. This is a 47-acre agricultural property that will be developed into 99 single family residential homes. This site will create 13.3 acres of new impervious surfaces. The review has not been completed as of this month's update.

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t. 2021-013 Rush Creek Reserve, Corcoran. *This is a 91-acre site located along the north side of CR10, across from the Corcoran Community Park. The applicant is proposing to create a residential subdivision including 66 townhomes and 177 single-family units with 24.2 acres of new impervious areas. The existing area is agricultural with 58 acres of cropland and 33 acres of wetlands/wooded areas. No recommendation is available for the Commission at this time. The applicant is working through revisions requested by Staff. Updated findings and recommendations will be provided to the Commission if available.*

u. 2021-014 Elm Creek Stream Restoration Phase IV, Champlain. *This is a continuation of stream restoration work within Elm Creek. The project includes approximately 5,300 linear feet of stream bank restoration starting at Elm Creek Xing bridge and extending downstream. The work will stabilize the toe of banks, restore and enhance habitat, increase flood storage and improve water quality. The review is in-progress. Updated findings and recommendations will be provided to the Commission if available.*

FINAL RECORDINGS OR OTHER DOCUMENTATION/FOLLOW-UP ARE DUE ON THE FOLLOWING PROJECTS:

ah. 2014-015 Rogers Drive Extension, Rogers. This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. The project is located east of I-94, south of the Cabela development. The total project area is 8.0 acres; proposed impervious surfaces total 5.6 acres. Site plans received July 1, 2014 met the requirements of the Commission with the exception of the nutrient control. The Commission approved the site plan contingent upon the City deferring 4.6 lbs. of phosphorus for treatment in future ponding opportunities as the easterly corridor of Rogers Drive develops. 2.3 lbs. will be accounted for in the Kinghorn Spec. Building site plan, with 2.3 lbs. still outstanding. This item will remain on the report until the total deferral is accounted for.

ai. 2015-030 Kiddiegarten Child Care Center, Maple Grove. Approved December 9, 2015. If the City does not take over the operation and maintenance of the underground system and the sump catch basins, an O&M agreement for the underground trench/pond system must be approved by the Commission and the City and recorded with the title. On February 5, 2019 Derek Asche contacted the owner requesting a copy of the recorded maintenance agreement. No update was available on July 2, 2019.

aj. 2016-005W Ravinia Wetland Replacement Plan, Corcoran. In December 2016, the Commission approved Staff's recommendations on this wetland replacement plan. Final wetland impacts are 1.22 acres. Wetland credits created on site will be 4.01 acres. Excess credits of 0.75 acres are proposed to be used on Lennar's Laurel Creek development in Rogers (2017-014). All approval contingencies have been met and construction is completed. Vegetation planting and management took place throughout 2017. Barr Engineering is providing monitoring to ensure the replacement meets the performance standards of the approved plans. Annual reports have been submitted to the US Army Corps of Engineers (USACE) in February 2019, February 2020, and March 2021. *Monitoring status as of March 2021: Wetlands and buffers are looking good but will need continued vegetation management in 2021 to get rid of invasive species (mostly cattail). Hydrology is good in both the restoration and creation areas.*

ak. 2017-014 Laurel Creek, Rogers. In June 2017, the Commission approved this project with four conditions. All contingency items have been provided with the exception of the O&M agreement which is being negotiated by the City as to whether the City or the HOA will be responsible for the operation and maintenance of the stormwater management facility. On August 31, 2017, Andrew Simmons responded that the O&M agreement is still being negotiated.

al. 2017-029 Brayburn Trails, Dayton. At their August 2017 meeting the Commission approved Staff's findings dated August 2, 2017 with five conditions. All of the conditions have been met except for the final recordings of the O&M agreements and easements. On March 7, 2018, the City reported: final plat approval has not been granted, easements will be recorded as plats are approved. Ponds will be maintained by the City of Dayton. An agreement, and additional easement, will be required for a water re-use system within one of the ponds (between the City and HOA). This system is not part of the first

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addition – the timing of said improvements/agreement is unknown. Construction had been expected to start in 2018.

On February 7, 2019, Jason Quisberg provided the following information: The 1st Addition was scaled back from what was proposed; associated construction activity is significantly completed. Extension of trunk utilities through Sundance Golf Course are complete. The proposed 2nd Addition is under review. Improvements to 117th Avenue (East French Lake Road to Fernbrook Lane) will be part of the work done with the 2nd Addition. Construction is anticipated to start spring 2019. Pond easements are being recorded with the platting process for each addition (those [that are] part of the 1st Addition are in place). The water re-use system is not part of the 2nd Addition (will be with future additions).

On March 4, 2021 Nico Cantarero reported that Brayburn Trails is continuing to construct homes. The development is through their 6th addition with approximately 2/3 of the development final platted. 117th Avenue improvements have been constructed and the development continues to build infrastructure and homes.

am. 2018-046 Graco Expansion, Rogers. This project is the expansion of an existing building. The site is located in an area that has regional ponding provided for rate control purposes, but needs to account for water quality and abstraction requirements on site prior to discharging offsite as part of the improvements. The Commission granted conditional approval at their October 2018 meeting. Conditions of approval were to submit a SWPPP plan meeting requirements, clarify maintenance responsibilities for the iron enhanced sand filter, and a letter from the City of Rogers stating their intentions to provide the water quality deficit in an upcoming project. Staff confirmed several minor plan revisions remain in conformance with the original approval. This item will remain on the Staff report until such time as the water quality deficit has been made up.

an. 2018-048 Faithbrook Church, Phase 2, Dayton. This is an application for review of an expansion of an existing church located northeast of the intersection of Fernbrook Lane and Elm Creek Road. The Commission approved this project at their November 2018 meeting conditioned upon receipt of a SWPPP meeting NPDES requirements and the City accepting maintenance responsibility or recording a modified O&M plan for the stormwater features on the site in a form acceptable to the Commission. On February 7, 2019, Jason Quisberg reported that this project has gone idle; it is believed to be due to funding needs of the applicant. It was expected activity would resume in Spring 2019.

On March 4, 2021 Nico Cantarero reported that the outlet to the church has been constructed. The church still has plans for a Phase 2 expansion, but it has not been initiated to date.

ao. 2019-002 Parkside Villas, Champlin. This is two adjacent rural parcels totaling 13.9 acres that are proposed to be split into 56 single-family residential lots. It is located on the east side of Goose Lake Road just south of its intersection with Elm Road (CR 202). The review is for compliance with Commission Rules D and E. At their February 2019 meeting the Commissioners approved Staff's findings dated January 29, 2019, contingent on (1) a long term O&M agreement on the stormwater basin and irrigation system being provided and recorded on the property title and (2) the applicant working with the City and Three Rivers Park District to safely outlet the pond water below the trail system adjacent to the property line.

ap. 2019-021 Brenly Meadows, Rogers. This is a 38-unit townhome project proposed on 6.9 acres north of 129th Avenue about one-third mile west of Main Street. It triggered the Commission's review for Rules D, and E. This item was approved by the Commission at their August 2019 meeting, contingent upon O & M plan requirements for the stormwater pond and irrigation system.

aq. 2019-026 Interstate Power Systems, Rogers. *This is a 10-acre site to construct a 1-acre building for a mechanical shop and 6 acres of parking and driveways along County Road 81. It triggered review of Rule D, E, G, and I. This item was approved by the Commission at their November 2019 meeting, contingent upon documentation of existing conditions pollutant loading and a recorded O&M plan for onsite BMPs. The applicant provided the pollutant loading data in November 2019. Commission is still waiting on the O&M plan as of April 2021.*

ar 2019-027 Havenwood at Maple Grove. This is a 5.6-acre site located at the northwest intersection of Bass Lake Road (CR10) and Troy Lane (CR101). The site is proposed to be subdivided into two lots. The southerly lot will be 4.5-acres

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with a 150-unit senior living facility. The remaining outlot (~1.3 acres) is anticipated to be a daycare facility. In their findings dated October 17, 2019, Staff recommended approval contingent upon the irrigation pond and system having an operation and maintenance plan approved by the City and Commission and recorded on the title for this property. A copy of the recorded document must be provided to the Commission.

as. 2019-032 OSI Expansion, Medina. This an existing business located in the northwest corner of Highway 55 and Arrowhead Drive. The applicant is proposing to build an addition on the south side of the building and add parking to the north side of the site, creating an additional 3.6 acres of new impervious area. In their findings dated February 4, 2020, Staff recommended approval contingent upon receipt of O& M plans on the stormwater facilities that meet the Commission's requirements. Dusty Finke reported on March 4, 2020, that recordation of the O&M plans is still pending.

at. 2020-001 Outlot L, Markets at Rush Creek, Maple Grove. Outlot L is a 1.55-acre lot located in The Markets at Rush Creek (Hy-Vee South) PUD development. This project is located just west of the Hy-Vee gas station and south of CR10. A 12,000 SF multi-tenant building and 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 with Rules D and E. On January 23, 2020, Staff administratively approved this project contingent upon receipt of a dated and signed set of final development stage plans. Signed and dated plans were received in December 2020. The project approval is good until December 31, 2021.

au. 2020-008 Lone Gardens, Dayton. This project is located at the northwest intersection of CSAH 144 (Diamond Lake North) and 12 (Dayton River Road). The site consists of three agricultural properties totaling 48.29 acres. 112 new single-family residential lots creating 16.84 acres of new impervious surface area are proposed for this development. The Commission's review was 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 conditioned 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 met the contingencies of the Commission approval with the exception of the post development infiltration basin percolation test requirements. At their December meeting the Commission approved 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.

On March 4, 2021 Nico Cantarero reported that Lone Gardens constructed their 1st addition of approximately 30 homes along the northern portion of the site. The developer has indicated plans to grade the remainder of the site and construct the 2nd addition of the development in 2021 which would include the second access to the site onto North Diamond Lake Road.

av. 2020-009 Stetler Barn, Medina. This site disturbs approximately 3.5 acres and must meet Commission Rules D, E, and I. Because of the limited available space for pasture, paddocks and land application of manure, understanding how these components will be managed is also an important part of the review. A complete plan was received on April 22, 2020. At their May 13, 2020 meeting the Commission approved this project contingent upon: 1) The landowner continuing to work with the U of M Extension Office and Hennepin County Rural Conservationist to finalize composting, pasture and paddock management plans and 2) A long-term pond/basin operation and maintenance plan and agreement with the City of Medina being approved by the City of Medina and the Commission. The agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.

aw. 2020-017 Meadow View Townhomes, Medina. This is a 22-acre site located south of Meander Road and north of Highway 55. Lennar Homes is proposing to build 125 townhomes with their necessary infrastructure on this site. A complete application was received May 29, 2020. The plans call for 7.64 acres of new impervious areas. The Commission's review was for conformance to Rules D, E, F, G, and I. At their October meeting, the Commission approved Staff's finding dated September 30, 2020, contingent upon (1) The mean (average) depth on the west wet-detention pond must be 4.0' or deeper; (2) Buffer strip monumentation and vegetation maintenance plans must

conform to the Commission's requirements; (3) An operation and maintenance agreement of the stormwater ponds and irrigation system must be approved by the City and the Commission. Said agreement must be recorded on the property title with a copy of the recorded document provided to the Commission; and (4) Erosion and sediment controls must conform to Commission requirements. Since the approval, the City of Medina has requested the applicant provide abstraction by irrigation only, thus eliminating one filter basin. Staff reviewed the changes and found the updates to be in compliance with the Commission's original approvals for stormwater management and administratively approved the plans contingent upon item (3) above and added the condition that design information on the irrigation pump and augmentation water source must be provided within six months of this approval.

ax. 2020-023 Ziegler, Dayton. This is an existing 4.73-acre commercial parcel located on Territorial Road near Holly Lane close to the Maple Grove/Dayton border. Currently the property consists of a building with bituminous drive and parking areas and a large gravel storage yard. The applicant is proposing to utilize the existing building, construct an additional commercial building, expand the bituminous parking lot, and add gravel lots for merchandise display and storage, triggering Commission rules D, E, G, and I. The Commission approved this project at their August 2020 meeting contingent upon wetland permitting being obtained and an Operation & Maintenance agreement being recorded on the land title. The wetland permit has been approved, but the O&M plan has yet to be received.

On March 4, 2021 Nico Cantarero reported that Ziegler plans to construct their site improvements in 2021.

ay. 2020-025 Paulsen Farms, Corcoran. This is an 88-acre parcel located south of CR30 and east of Bechtold Road. Twenty (20) single family rural residential lots with 5.2 acres of new impervious areas are proposed on this site. This project triggered Rules D, E, and I. At their October 2020 meeting the Commission approved Staff's findings dated September 23, 2020 contingent upon: (1) rate control at culvert #3 must be equal to or less than pre-development rates for all storm events; (2) buffer strip monumentation conforms to the Commission's requirements; and (3) an operation and maintenance agreement must be created and approved by the City and the Commission. Said agreement must be recorded on the property title with a copy of the recorded document provided to the Commission. This project has been put on hold by the applicant. They have been informed that the approval expires October 14, 2021. On February 25, 2021, Kevin Mattson responded, no updates.

az. 2020-027 Kariniemi Addition, Corcoran. This is a 12.7-acre parcel located on Lot 3, Block 1 of the Rolling Hills Acres subdivision (ECWMC Project 2019-030) about a mile north of Highway. 55 on the east side of Rolling Hills Road. The applicant proposes to create three lots with a shared driveway for access along the northerly portion of the property. Project work will disturb 2.6 acres and create 0.83 acres of new impervious areas. This project was approved by the Commission at their September 2020 meeting pending receipt of O & M plans. On February 25, 2021, Kevin Mattson responded, this project is anticipated for Spring 2021. City is aware of Commission approval contingency requirements.

ba. 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 findings dated November 4, 2020, Staff recommend approval contingent on submission and approval of an O&M agreement with the City and that a subsequent addition to the proposed structure shall be submitted for administrative review. The Commission approved Staff's recommendations at their December 9, 2020 meeting. On February 25, 2021, Kevin Mattson responded, this project is anticipated for Spring 2021. City is aware of Commission approval contingency requirements.

bb. 2020-032 Enclave Rogers – Commerce Boulevard., Rogers. This project would create an apartment complex on a 3.3-acre site. The existing condition 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 the City for grading activities. In their findings

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dated December 2, 2020, Staff recommended approval with those conditions, as well as submission of an O&M agreement for stormwater features, minor updates to the hydrology report, and minor updates to the SWPPP. The Commission approved Staff recommendations at their December 9, 2020 meeting.

bc. 2020-036 Balsam Pointe, Dayton. This project would create 98 residential units on a 10-acre site near the intersection of Dimond Lake Road South and Dayton Road. The existing condition is undeveloped. The project will disturb the entire site and create 5.3 acres of new impervious. The application is being reviewed for Rules D and E. The Commission approved Staff's recommendations at their January 13, 2021 meeting contingent upon an Operation & Maintenance agreement meeting the Commission's standards being recorded on the land title.

ELM CREEK FLOODPLAIN MAPPING PROJECT

Below is the March 25, 2021 monthly status report for the Elm Creek Floodplain Mapping project.

Over the last month, we have:

1. Submitted draft model to the MnDNR
2. Submitted draft mapping and spatial data to the MnDNR
3. Updated the draft model to incorporate the MnDNR comments on the draft model
4. Completed final mapping and spatial data, incorporating MnDNR comments
5. Sent final narrative and project deliverables to the MnDNR
6. As of 3/31 (the grant expiration date), we have spent 100% of the budget, which will be reflected in our final invoice

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Watershed Management Commission

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Skye Meadows Variance City of Rogers Project #2021-002

Project Overview:

Location: Six parcels along the north and south side of Territorial Rd, west of Tilton Trail N.
Purpose: Lennar Corporation is proposing to construct a residential development on 130 acres along Territorial Road. The project would create 345 single family residential units proposed creating 38.73 acres of new impervious areas in seven phases. All phases of the project were initially reviewed under Project # 2020-016 for stormwater management, erosion controls, floodplain alterations, wetland alterations, and buffer strips for all phases. This review is for a variance request for lots 1 through 11 regarding the low floor freeboard requirements in Rule D.

WMC Rules Triggered:

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

Applicant: Lennar Corporation
Address: 16305 36th Ave. N. Suite 600,
Plymouth, MN 55443

Attention: Paul Tabone
Phone: 952-249-3075
Email: paul.tabone@lennar.com

Agent: ISG
Address: 7900 International Drive, Suite 550,
Minneapolis, MN 55425

Attention: Jeremy Foss
Phone: 952-426-0699
Email: Jeremy.foss@ISGInc.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	2/2/2021
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	2/2/2021
	<input checked="" type="checkbox"/> City authorization: City of Rogers	2/2/2021
	<input checked="" type="checkbox"/> Review fee: 675	2/2/2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	1/26/2021
Submittals		
1.	0-23476 Skye Meadows Variance Narrative	1/26/2021
	1-City of Rogers Letter - Skye Meadows Grading Plan	
	2-Rachael Drive Existing Building Elevations	
	3.1-23476 Sky Meadows Grade Plan-North-2	
	3.2-23476 Sky Meadows Grade Plan-North-3	

Exhibits:	Description	Date Received
	4-Low floor elevation guidance	
2.	0-2021-02-05 Variance Response	2/5/2021
	1-23476 Lot Elevation Tables 2-4	
	2.1-23476 Sky Meadows Grade Plan-North-2	
	2.2-23476 Sky Meadows Grade Plan-North-3	
	3-223476 Low Floor Elevation Guidance Table 5	
3.	23476 - Skye Meadows - Section View Elevations	2/8/2021
	23476 Lot Elevation Tables 2-4	
	223476 Low Floor Elevation Guidance Table 5	
	Low Floor Guidance Exhibit-2	
4.	Low Floor Guidance Exhibit-EOF	2/10/2021
	Wetland Overflow Map	
5.	2021-02-26 Variance Response 3	3/2/2021
	23476 Alt Rachael Dr profile	

Findings

General

1. A complete application was received on February 2, 2021. The applicant requested a 60-day extension. The decision period per MN Statute 5.99 expires on June 2, 2021.
2. The Commission approved this development under Project #2020-016 Skye Meadows at the January 2021 meeting on the condition that the low floor issue be resolved either through an approved variance or by bringing the project into conformance with Commission rules.
3. This review covers the variance request.
4. The Applicant requests a variance from the Commission's Rule D requirement for two feet of freeboard above the high-water level of adjacent waterbodies for lots 1 through 11.
 - a. Rule D. 3. b. i) (7) states: "The low floor elevation shall be at minimum two feet above the critical event 100-year elevation and at minimum one foot above the emergency overflow elevation of nearby waterbodies and stormwater ponds."
5. The Applicant meets the freeboard requirements for the City of Rogers.
6. The City of Rogers supports the variance request.

Rule D – Stormwater Management (plans)

This review only covers the low floor elevation on the lots stated above of the Skye Meadows project. The other provisions of Rule D were approved under Project #2020-016 on all the other areas of this development.

Low Floor Elevations

The low floor elevations for Lots 1 through 11 **do not meet** Commission requirements.

1. Table 1 shows that none of the lots meet the Commission's freeboard requirement.

Table 1 Low Floor Freeboard Above High Water Level in Adjacent Waterbody

Lot #	Waterbody	High Water Level (HWL) (feet)	Low Floor Elevation (feet)	HWL Freeboard = Low Floor Elev. minus HWL (feet)
1	NW Wetland 8	936.5	936.1	-0.4
2	NW Wetland 8	936.5	937.8	1.3
3	NE Wetland 7	938.4	937.1	-1.3
4	NE Wetland 7	938.4	937.3	-1.1
5	NE Wetland 7	938.4	938.6	0.2
6	Pond A	940.75	938.5	-2.3
7	Pond A	940.75	938.5	-2.3
8	Mid Wetland 8	939.4	938.5	-0.9
9	Mid Wetland 8	939.4	939.0	-0.4
10	Mid Wetland 8	939.4	939.3	-0.1
11	Mid Wetland 8	939.4	939.7	0.3

Red text indicates values less than 2-foot requirement

- Table 2 shows that only Lot 2 meets the Commission's EOF freeboard requirement.

Table 2 Low Floor Freeboard Above Emergency Overflow in Adjacent Waterbody

Lot #	Waterbody	Emergency Overflow (EOF) (feet)	Low Floor Elevation (feet)	EOF Freeboard = Low Floor Elev. minus EOF Elev. (feet)
1	NW Wetland 8	935.5	936.1	0.6
2	NW Wetland 8	935.5	937.8	2.3
3	NE Wetland 7	938.2	937.1	-1.1
4	NE Wetland 7	938.2	937.3	-0.9
5	NE Wetland 7	938.2	938.6	0.4
6	Pond A	941.0	938.5	-2.5
7	Pond A	941.0	938.5	-2.5
8	Mid Wetland 8	941.7	938.5	-3.2
9	Mid Wetland 8	941.7	939.0	-2.7
10	Mid Wetland 8	941.7	939.3	-2.4
11	Mid Wetland 8	941.7	939.7	-2.0

Red text indicates values less than the 1-foot requirement

Rule K – Variances

Variance Requirements

- Variances are allowed under Rule K of the ECWMC. Rule K states that variances may be granted for items not in literal agreement with the Rules in cases where literal enforcement would cause practical difficulties or particular hardship and is consistent with the Commission's water resources plan and Minnesota Statutes under 103D.

The Applicant supplied the following responses to the hardship evaluation, as defined in Rule K.

1. **The land in question cannot be put to reasonable use if used under the conditions allowed by the rules.**
 - a. *Applicant Response:* The land in question, if the homes are not built as proposed, does not meet the intent of the planned community for the City. Also, if homes are not built adjacent to the street, there is less incentive to construct the street which would impact the planned community traffic patterns.
2. **The plight of the applicant is due to circumstance unique to the applicant and not created by the Applicant.**
 - a. *Applicant Response:* The issue of these 11 lots is due to matching into and extending existing infrastructure that was previously planned out by the City as part of the previous development to the north 15 to 20 years ago. Although this development is being reviewed under a different generation plan, the same rule has been applied under previous generation plans. The interpretation of this rule has changed since the generation plan of the original development is which causing some of the challenges.
3. **The variance, if granted, will not adversely affect the essential character of the locality and other adjacent land.**
 - a. *Applicant Response:* The proposed improvements fit in with existing home styles and community in the area.
4. **Economic considerations alone shall not constitute a hardship if the land may be put to reasonable use for the land exists under the terms of the rules.**
 - a. *Applicant Response:* General planning standards would imply that new street construction is supported by adjacent private development to support the construction of the street and future maintenance of the street. Removing this connection limits the neighborhood connectivity to the proposed and existing adjacent neighborhoods which was previously planned by the City of Rogers.

Technical Evaluation of Proposed Approach

1. Existing structures to the north of the proposed development constructed in 2006 have low floors that do not have two feet of freeboard above the HWL of adjacent waterbodies. The City is not aware of any basement flooding problems for these structures.
2. Applicant proposes meeting City requirements for freeboard for low floors and low openings, rather than the more restrictive ECWMC requirements.
3. Table 3 provides a comparison of freeboard requirements for ECWMC and the City of Rogers.

Table 3 Freeboard Requirements ECWMC vs City of Rogers

Building Elevation	ECWMC Requirement	City Requirement
Low Floor	> HWL + 2 feet	> NWL
Low Opening	N/A	> EOF + 2 feet

4. The Applicant proposes the following:

- a. Keeping low floor elevations for proposed homes at or above the low floors for existing homes adjacent to the same waterbody.
 - b. Set low floor elevations above the NWL of the adjacent waterbodies.
 - c. Set low openings at least 2 feet above the EOF of adjacent waterbodies OR 2 feet above the HWL of a back to back 100-year storm.
 - d. Keep low floor elevations for Lots 1 and 2 above the historical high water level of the adjacent wetland (936.0).
5. Table 4 shows that all the lots have low floors above the normal water level for adjacent waterbodies, as required by the City of Rogers.

Table 4 Low Floor Freeboard Relative to City of Rogers Requirements

Lot #	Waterbody	NWL (feet)	Low Floor Elev. (feet)	NWL Freeboard = Low Floor minus NWL (feet)
1	NW Wetland 8	935.5	936.1	0.6
2	NW Wetland 8	935.5	937.8	2.3
3	NE Wetland 7	935.2	937.1	1.9
4	NE Wetland 7	935.2	937.3	2.1
5	NE Wetland 7	935.2	938.6	3.4
6	Pond A	938.3	938.5	3.3
7	Pond A	938.3	938.5	0.3
8	Mid Wetland 8	938.0	938.5	0.5
9	Mid Wetland 8	938.0	939.0	1.0
10	Mid Wetland 8	938.0	939.3	1.3
11	Mid Wetland 8	938.0	939.7	1.7

Red values are less than the 0 feet above the NWL City of Rogers requirement

6. Table 5 shows that Lots 1 through 8 have low openings that are at least 2 feet above the EOF for adjacent water bodies. Lots 9, 10 and 11 do not meet the EOF requirement.
7. In some cases, meeting the EOF freeboard requirement is unrealistic. An alternative approach is to check freeboard relative to the high water level that would result from a back-to-back 100-year storm event. Table 5 shows that Lots 9, 10, and 11 have at least two feet of Freeboard above the back to back 100-year high water level for the adjacent waterbody.

Table 5 Low Opening Freeboard Relative to City of Rogers Requirements

Lot #	Waterbody	100-year HWL (feet)	Back-to-Back 100-year Events HWL (feet)	EOF (feet)	Low Opening Elevation (feet)	EOF Freeboard = Low Opening minus EOF Elev. (feet)	Alt Freeboard = Low Opening minus Back to Back 100-year HWL
1	NW Wetland 8	936.5	N/A	935.5	939.6	4.1	N/A
2	NW Wetland 8	936.5	N/A	935.5	941.3	5.8	N/A
3	NE Wetland 7	938.4	N/A	938.2	940.6	2.4	N/A
4	NE Wetland 7	938.4	N/A	938.2	941.3	3.1	N/A

Lot #	Waterbody	100-year HWL (feet)	Back-to-Back 100-year Events HWL (feet)	EOF (feet)	Low Opening Elevation (feet)	EOF Freeboard = Low Opening minus EOF Elev. (feet)	Alt Freeboard = Low Opening minus Back to Back 100-year HWL
5	NE Wetland 7	938.4	N/A	938.2	942.1	3.9	N/A
6	Pond A	940.75	N/A	941.0	946.5	5.5	N/A
7	Pond A	940.75	N/A	941.0	946.5	5.5	N/A
8	Mid Wetland 8	939.4	N/A	941.7	946.5	4.8	N/A
9	Mid Wetland 8	939.4	939.6	941.7	942.5	0.8	2.9
10	Mid Wetland 8	939.4	939.6	941.7	942.8	1.1	3.2
11	Mid Wetland 8	939.4	939.6	941.7	942.2	0.5	2.6

Red values are less than the 2 feet above EOF or back-to-back 100-year high water levels

The applicant responded to questions posed by staff. Below is a summary of the questions and responses.

- Are the lots in question buildable without filling in wetlands?
Response: Yes. Most wetland fill caused by the project is from road and utilities. Extending Rachel Drive will provide transportation connectivity through the development and it will eliminate an existing sanitary lift station.
- Does strict interpretation of the ECWMC rules create non-conformities with other building requirements?
Response: Yes. Driveway slopes would be steeper than 10%. Modifications to Rachel Road would create steep street grades. Landscaping grades would be steeper than 4:1, the maximum allowed by the City of Rogers.
- What is the impact of raising the building pads to meet ECWMC requirements?
Response: Would require raising the street several feet. Would create steep driveways. Would require reconstruction of 150 feet of the existing Rachel Drive and adjacent driveways. Vertical curves would be steeper than standard. Increased wetland impacts.
- Can retaining walls be used to bring properties into compliance?
Response: Retaining walls could help reduce wetland impacts and make yards flatter (more useable). They come with their own challenges. Homeowners must maintain them which tends to lead to complaints to the City.
- What measures is the developer taking to avoid, minimize, and/or mitigate basement flooding for the 11 lots in question.
Response: The developer will meet existing building code. Lots will have a vapor barrier and insulation/drain board around the foundation walls, and a subdrain and sump. Surface elevations will drain away from the structures. Lennar provides an industry standard warranty.
- What is the economic basis for maintaining that slab-on-grade construction is unreasonable for these lots?
Response: Existing residents want a product that closely matches the existing houses. The expectation for single family homes is that there will be a basement. The market for slab-on-grade product is generally for attached home types. It is important to the City that new homes be similar to existing homes to minimize potential conflicts between residents and the City.

7. Would it be better to use some of this area for Park space?

Response: A park is not desired by the City to own and maintain in this location. Park space in this development is being provided in other areas.

The applicant provided a presentation at the March Commission meeting supporting the variance request.

Conclusions

- The proposed approach meets City of Rogers freeboard requirements.
- The Applicant has demonstrated that the proposed homes would have a similar risk of groundwater flooding as existing homes to the north. Existing homeowners have not reported flooding problems to the City in the last 15 years.
- Clay soils in the area make lateral migration of high water levels through the soil unlikely.
- It is probable that groundwater levels are close to normal water levels for adjacent waterbodies.
- Rule D is unclear about whether the intent of the freeboard requirement is to minimize the potential for overland flooding and groundwater flooding, or just overland flooding. Other watershed management organizations use it to minimize both types of flooding.
- The Applicant is aware that by building structures that do not meet the ECWMC freeboard requirement that there could be a higher potential for basement flooding.
- There are technical challenges with meeting the Commission requirement that present a hardship for the applicant.
- The economic basis for the hardship is the primary, but not the only hardship presented for the variance.

Resolution

The Commission voted 5-2 in favor of granting the variance for Lots 1 through 11.

The cost of the review exceeded the escrow amount provided by the applicant. Granting of the variance is contingent on the Applicant reimbursing the Commission for the total cost of the review plus non-refundable fees.



Barr Engineering Co.
Advisor to the Commission

March 18, 2021
Date

Attachments

- | | |
|----------|--|
| Figure 1 | Project Location |
| Figure 2 | Lot Numbers, High Water Levels, Normal Water Levels, Emergency Overflow Elevations |
| Figure 3 | Structure Elevations for Lots 1 through 7 (LSO = Low Opening, BFE = Low Floor) |
| Figure 4 | Structure Elevations for Lots 6 through 11 (LSO = Low Opening, BFE = Low Floor) |
| Figure 5 | Rachel Drive Existing Building Elevations |

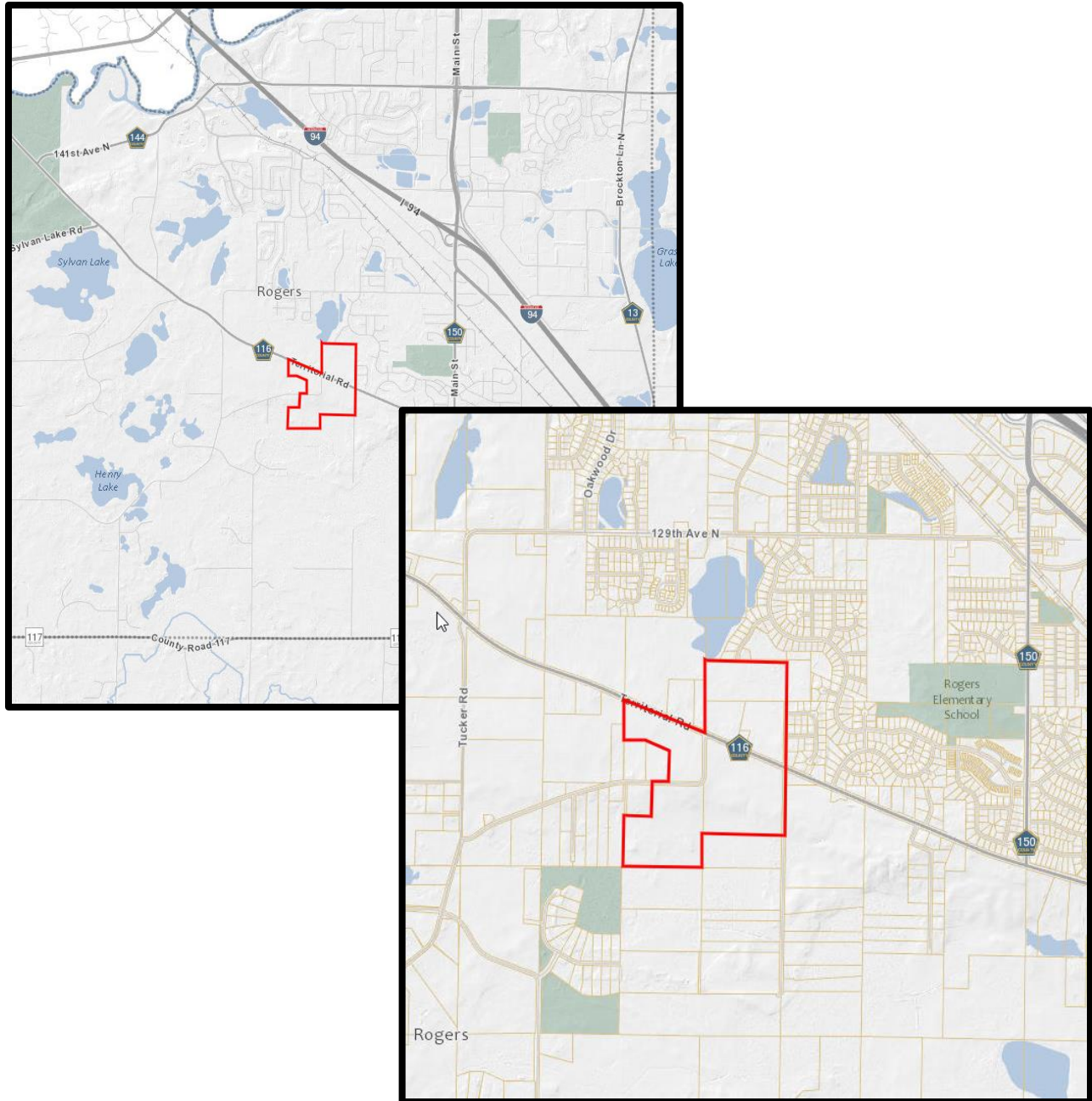


Figure 1 Project Location

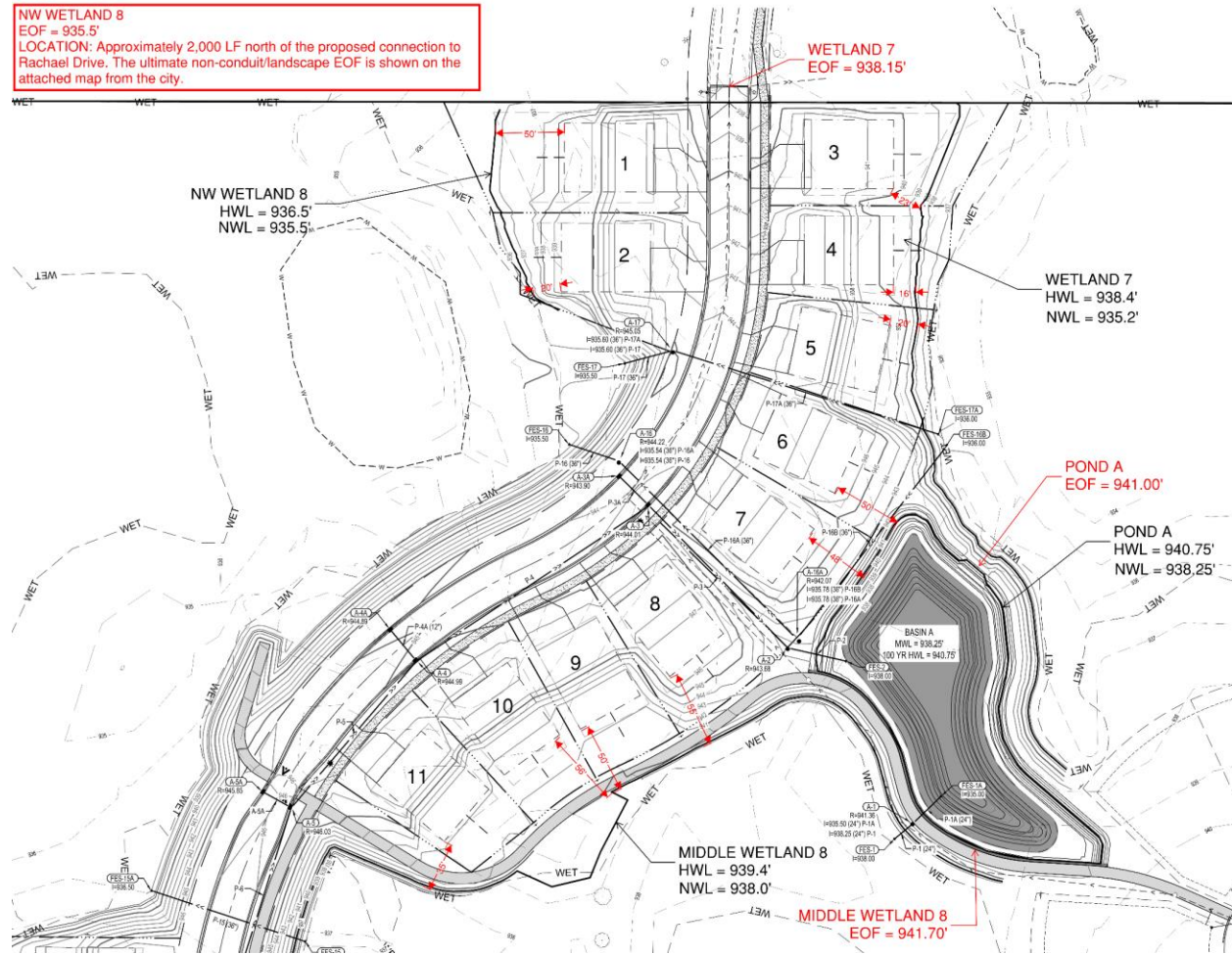


Figure 2 Lot Numbers, High Water Levels, Normal Water Levels, Emergency Overflow Elevations

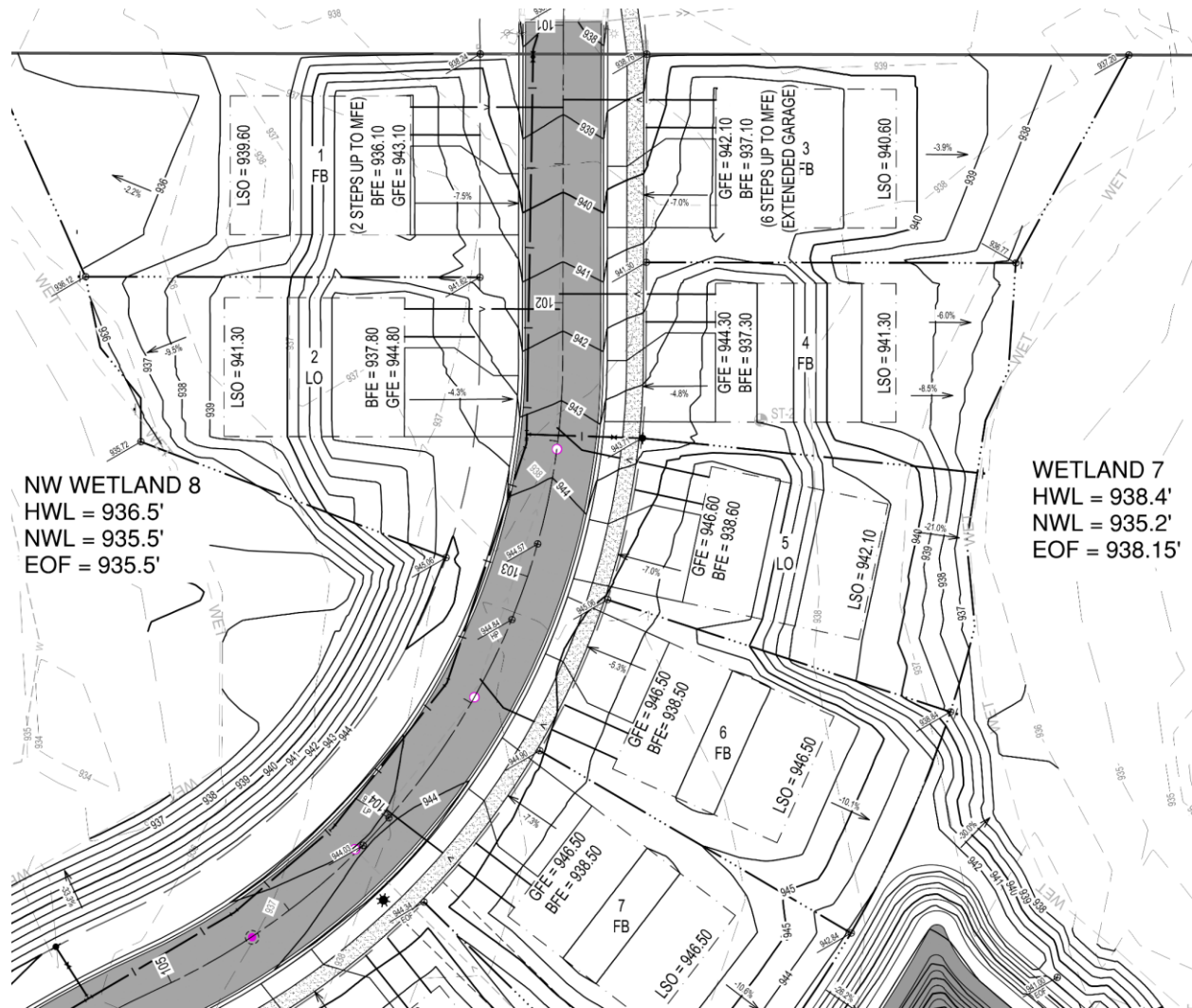


Figure 3 Structure Elevations for Lots 1 through 7 (LSO = Low Opening, BFE = Low Floor)

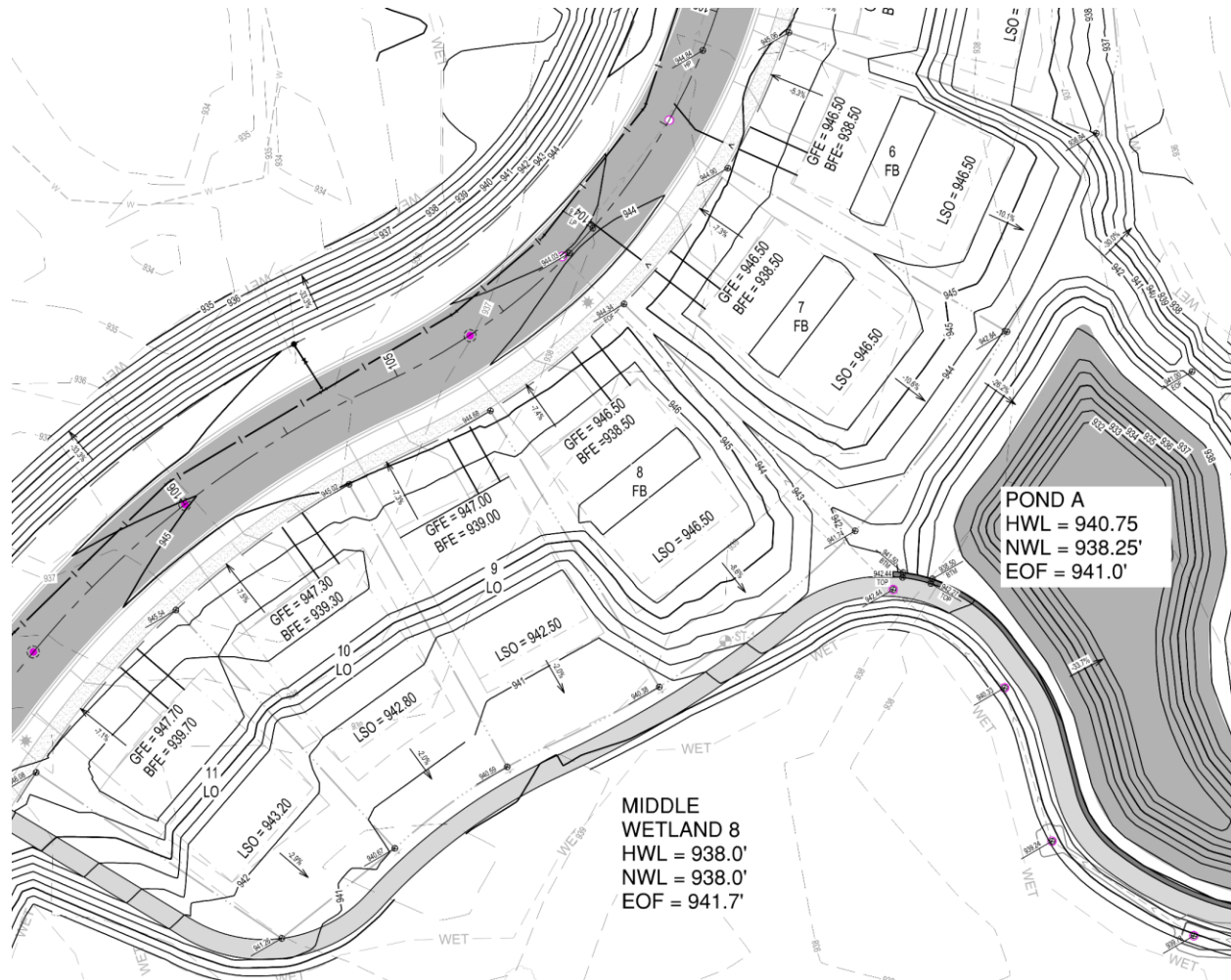


Figure 4 Structure Elevations for Lots 6 through 11 (LSO = Low Opening, BFE = Low Floor)

ELM CREEK WATERSHED MANAGEMENT COMMISSION**RESOLUTION 2021-02**

**Project No. 2021-002
Concerning a Variance to Project 2020-016
Skye Meadows, Rogers, MN**

WHEREAS, the Elm Creek Watershed Management Commission (Commission) did set forth Rules and Standards that established management standards for new development, redevelopment, and additions to existing development and established requirements for non-conforming uses in the granting of variances, said Rules and Standards being subsequently incorporated into the Third Generation Watershed Management Plan, adopted October 8, 2014, and revised October 14, 2015, and

WHEREAS, Lennar Corporation (Developer) has applied to this Commission for a variance to the management standards for a proposed residential development north of Territorial Road in Rogers, MN, and

WHEREAS, the purpose of the regulation is to establish a procedure to reduce the potential for flooding of structures to minimize future public expenditures to address flooding problems which the Commission determines to be achievable by providing a minimum low floor elevation for structures above high water elevations and emergency overflows of adjacent waterbodies, and

WHEREAS, the management standards and criteria for granting a variance require the Developer to meet the standards established by the management plan unless it obtains a variance, and

WHEREAS, the Developer is responsible for reimbursing the Commission for the full cost of the review of the variance request plus non-refundable fees, and

WHEREAS, a variance is to be granted only where a finding can be made by this Commission showing that all of the following conditions exist:

1. There are special circumstances or conditions affecting said property such that the strict application of the provision of these standards and criteria would deprive the applicant of the reasonable use of his land.
2. The variance is necessary for the preservation and enjoyment of a substantial property right of the petitioner.
3. The granting of the variance will not be detrimental to the public welfare or injurious to the other properties in the project vicinity.

4. The granting of the variance would not be contrary to the intent of taking all reasonable and practical steps to minimize flood risk to the proposed structures.

AND WHEREAS, the Commission has reviewed the application of the Developer and has concluded that the proposed Skye Meadows development minimizes the potential for flooding to the maximum degree practicable given the physical constraints of the site and the nature of the development.

NOW, THEREFORE, BE IT RESOLVED by the Elm Creek Watershed Management Commission as follows:

A variance to the management standards is hereby granted to the Developer for the following reasons:

1. The analysis contained within staff memos and the exhibits attached to the aforesaid memos, all minutes from the above-mentioned meetings, and any and all other materials distributed at these meetings are hereby incorporated by reference.
2. The Developer proposes to construct a residential development that extends an existing residential subdivision.
3. The Developer has designed most of the development to comply with the Commission's Rules and Standards for low floor freeboard. Eleven of the 345 lots are unable to meet the low floor freeboard standard because of the need to tie into existing roadway and utility infrastructure, minimize wetland impacts, avoid steep driveways, and maintain consistent structure types within the development.
4. The Commission's Rules and Standards require the low floor elevation of a structure to be a minimum of two feet above the critical event 100-year water surface elevation and at a minimum one foot above the emergency overflow of nearby water bodies and stormwater ponds.

For Lots 1 through 11, the Developer shall construct structures with a low floor elevation above the normal water level of adjacent water bodies (see Table 1) and with low openings at a minimum of two feet above the emergency overflow of nearby water bodies or two feet above the high water level resulting from a back-to-back 100-year storm (see Table 2). Clay soils at the site and rapid drawdown times after storm events limits the potential for high water levels in nearby waterbodies to affect groundwater elevations at the structures. Structures will meet building code which includes a sump pump and vapor barrier around the foundation. Structures will have an industry standard 10-year warranty for foundation defects.

Table 1 Low Floor Freeboard Provided

Lot #	Waterbody	Normal Water Level (NWL) (feet)	Low Floor Elevation (feet)	NWL Freeboard = Low Floor minus NWL (feet)
1	NW Wetland 8	935.5	936.1	0.6
2	NW Wetland 8	935.5	937.8	2.3
3	NE Wetland 7	935.2	937.1	1.9
4	NE Wetland 7	935.2	937.3	2.1
5	NE Wetland 7	935.2	938.6	3.4
6	Pond A	938.3	938.5	3.3
7	Pond A	938.3	938.5	0.3
8	Mid Wetland 8	938.0	938.5	0.5
9	Mid Wetland 8	938.0	939.0	1.0
10	Mid Wetland 8	938.0	939.3	1.3
11	Mid Wetland 8	938.0	939.7	1.7

Table 2 Low Opening Freeboard Provided

Lot #	Waterbody	100-year HWL (feet)	Back-to-Back 100-year Events HWL (feet)	EOF (feet)	Low Opening Elevation (feet)	EOF Freeboard = Low Opening minus EOF Elev. (feet)	Alt Freeboard = Low Opening minus Back to Back 100-year HWL
1	NW Wetland 8	936.5	N/A	935.5	939.6	4.1	N/A
2	NW Wetland 8	936.5	N/A	935.5	941.3	5.8	N/A
3	NE Wetland 7	938.4	N/A	938.2	940.6	2.4	N/A
4	NE Wetland 7	938.4	N/A	938.2	941.3	3.1	N/A
5	NE Wetland 7	938.4	N/A	938.2	942.1	3.9	N/A
6	Pond A	940.75	N/A	941.0	946.5	5.5	N/A
7	Pond A	940.75	N/A	941.0	946.5	5.5	N/A
8	Mid Wetland 8	939.4	N/A	941.7	946.5	4.8	N/A
9	Mid Wetland 8	939.4	939.6	941.7	942.5	0.8	2.9
10	Mid Wetland 8	939.4	939.6	941.7	942.8	1.1	3.2
11	Mid Wetland 8	939.4	939.6	941.7	942.2	0.5	2.6

Red values are less than the 2 feet above EOF or back-to-back 100-year high water levels

5. Granting of the variance for the low floor elevation requirements will not be contrary to the intent of taking all reasonable and practical steps to minimize the potential for the flooding of structures within the watershed.

This resolution was declared duly passed and adopted this fourteenth day of April, 2021.

Doug Baines, Chair

Judie A. Anderson
Recording Secretary

**STATE OF MINNESOTA
COUNTY OF HENNEPIN**

I, Judie A. Anderson, do hereby certify that I am the custodian of the minutes of all proceedings had and held by the Board of the Elm Creek Watershed Management Commission, that I have compared the above resolution with the original passed and adopted by the Board of said Commission at a regular meeting thereof held on the fourteen day of April, 2021, at 11:30 a.m., that the above constitutes a true and correct copy thereof, that the same has not been amended or rescinded and is in full force and effect.

IN WITNESS WHEREOF, I have hereunto placed my hand and signature this fourteen day of April, 2021

Judie A. Anderson
Recording Secretary

(NO SEAL)

Watershed Management Commission

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TECHNICAL OFFICE

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

Birchwood 2nd Addition Rogers, Project #2021-007

Project Overview:

Location: East of CR 13 (Brockton Lane) approximately 1/2 mile south of the intersection of CR 144 (141st Ave. N.) and CR 13

Purpose: The applicant is proposing to develop the site into 30 single family residential lots. The site drains south and east into Grass Lake which is located east of the project. A biofiltration basin in the SE corner of the project will provide treatment and rate control. This work will disturb 10 acres and create 4.0 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
	X	Rule I	Buffer Strips

Applicant: DR Horton, Inc
Address: 20860 Kenbridge Court, Suite 100
Lakeville, MN 55044

Attention: Reid Schulz
Phone: 952-985-3757
Email: rtschulz@drhorton.com

Agent: Westwood Professional Services
Address: 12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343

Attention: Christian Froemke
Phone: 952-937-5150
Email: christian.froemke@westwoodps.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	3/8/2021
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	3/8/2021
	<input checked="" type="checkbox"/> City authorization: Rogers, MN	3/5/2021
	<input checked="" type="checkbox"/> Review fee: \$3,375	3/8/2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	3/5/2021

Submittals

1. Birchwood 2nd Addition Preliminary Plans for Preliminary Plat, Grading, Utilities and Landscape (16 of 16 sheets) dated March 5, 2021, revised March 16, 2021.
2. Birchwood 2nd Addition Storm Water Management Plans dated March 4, 2021.
3. MN WCA Notice of Decision, approved wetland boundary/type & no-loss dated July 28, 2020.

Findings

General

1. A complete application was received March 8, 2021. The initial 60-day decision period per MN Statute 15.99 expires May 7, 2021.
2. This is an existing 9.9-acre parcel consisting of 6.2 acres of cropland and a 3.7-acre home site. It currently drains south and east into Grass Lake which is located east of the project.
3. The proposed improvements include the construction 30 single family residential lots and their necessary infrastructure.
4. The project will create 4.0 acres of new impervious area.
5. Stormwater management for the project consists of routing 9.0-acres to a biofilter basin in the southeast corner of the project. Because of matching grades along Brockton Lane and the south property, 0.9 acres will be untreated. Management for the untreated areas will be provided by mitigating the stormwater treatment (overtreating) in the proposed treatment pond.
6. There are no Elm Creek Watershed jurisdictional floodplains, or stream crossings within the site.
7. There is one off-site wetland that falls under the Commission's Buffer Strip Rule I requirements.

Rule D – Stormwater Management General

1. The project will disturb 10.0 acres. The new impervious area will be 4.0 acres.
2. The soils on the site are predominantly Hydrologic Soil Group Type D.
3. Soil borings indicate high clay content soils.
4. Stormwater will be managed on the site through one biofiltration basin that discharges into Grass Lake east of this property.
5. Low Floor Elevations are more than 2.0 feet above the 100-year elevations and 1.0 foot above the emergency overflow elevation.
 - a. The 100-year flood elevation for Grass Lake is 909.3.
 - b. The 100-year elevation for the biofiltration basin is 918.9.

Water Quality Controls

1. Water quality controls meet Commission requirements.
2. Soils are not conducive for infiltration.
3. Water quality and volume loads are estimated using the P8 model.
4. The P8 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.
5. 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⁾	12	3,234	
Post-development without BMPs	15.	4,475	15,893 (required)
Post-development with BMPs	6.5	434	21,543
Net Change	-5.5	-2,800	+5,650

(1) 3.98 acres of impervious areas.

(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 the 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 – Birchwood 2nd Addition Development

Discharge Location	Condition	Area (acres)	2-year (cfs)	10-year (cfs)	100-year (cfs)
Overall	Existing	13.2	30.6	54.6	105.2
	Proposed	12.9	12.1	43.5	72.6
	Change	-0.3	-18.5	-11.1	-32.6

Abstraction Controls

1. Abstraction controls meet Commission requirements.
2. New impervious areas will be 4.0 acres requiring filtration of 15,893 cubic feet.
3. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible because the site consists of clay soils. The Applicant proposes to use sand/compost biofiltration to meet abstraction requirements.
4. Pretreatment is provided in sump manholes upstream of the biofiltration basin.
5. Table 1 summarizes abstraction (filtration) volumes and treatment provided for this site.

Rule E – Erosion and Sediment Control

1. Plans do not meet Commission requirements for erosion and sediment control.
 - a. Final SWPPP plans must be provided prior to site grading.

Rule I Buffer Strips

1. There is one wetland off-site, but near this property in the SE corner. The Commission's wetland buffer requirements will extend onto the Birchwood 2nd Addition property.
 - a. Current plans will meet the intent of the Commission's buffer requirements by the construction of the biofiltration basin in the SE corner of the property.
 - i. No monuments will be required because this area is already protected by stormwater easements well beyond the buffer requirements.
2. Vegetation restoration will meet the Commission requirements.

Recommendation

Approval with Conditions

Conditions

1. Final SWPPP plan must be provided prior to grading.

James C. Kujawa
Surface Water Solutions
On Behalf of Barr Engineering
Advisor to the Commission

____ March 16, 2021
Date

Attachments

- | | |
|----------|---|
| Figure 1 | Site Location Map |
| Figure 2 | Aerial Imagery |
| Figure 3 | Existing Drainage Pattern Map |
| Figure 4 | Proposed Grading and Drainage Pattern Map |

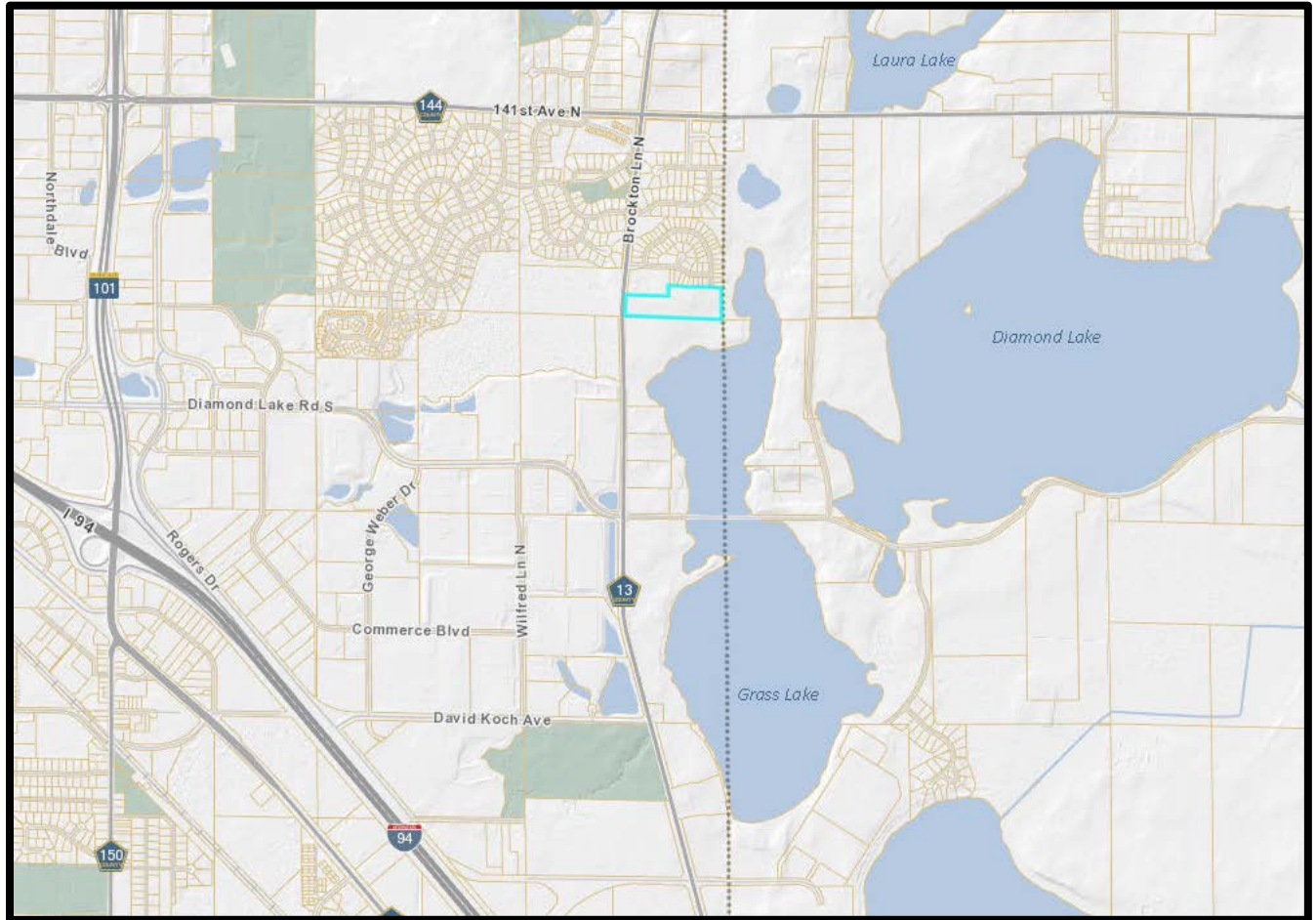


Figure 1 Site Location Map



Figure 2 Aerial Imagery

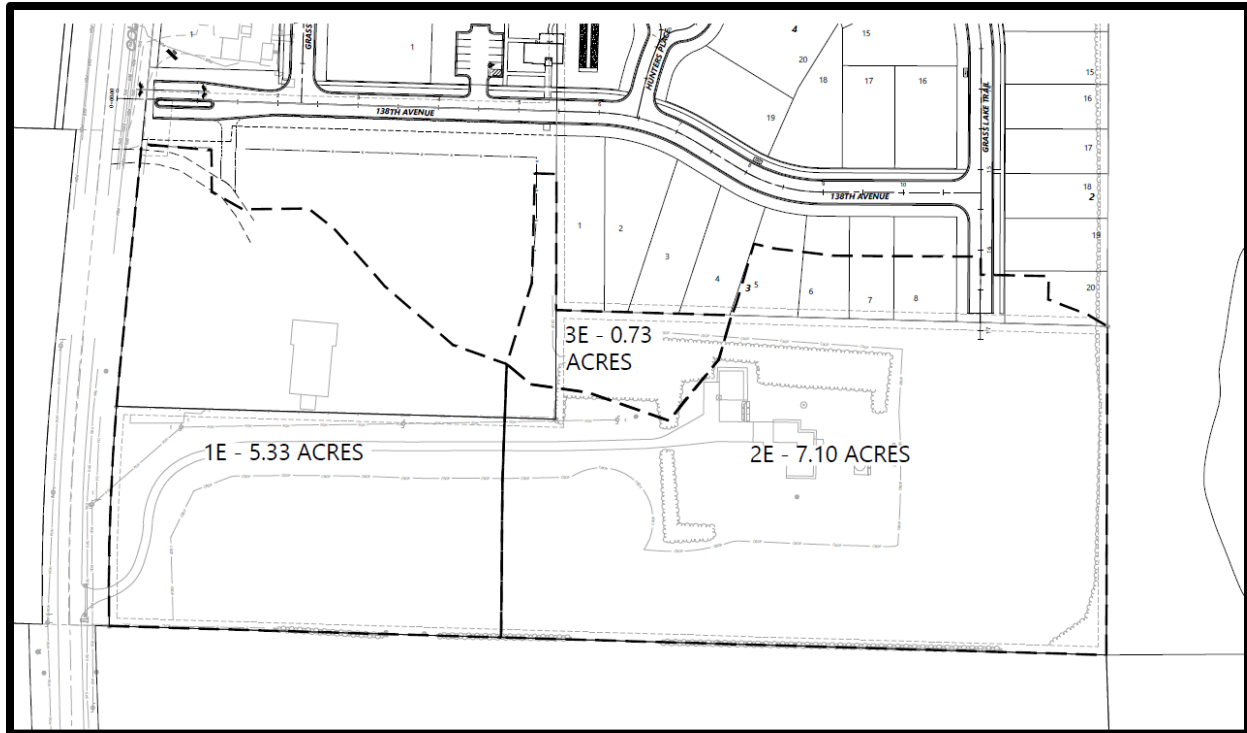


Figure 3 Existing Drainage Pattern Map

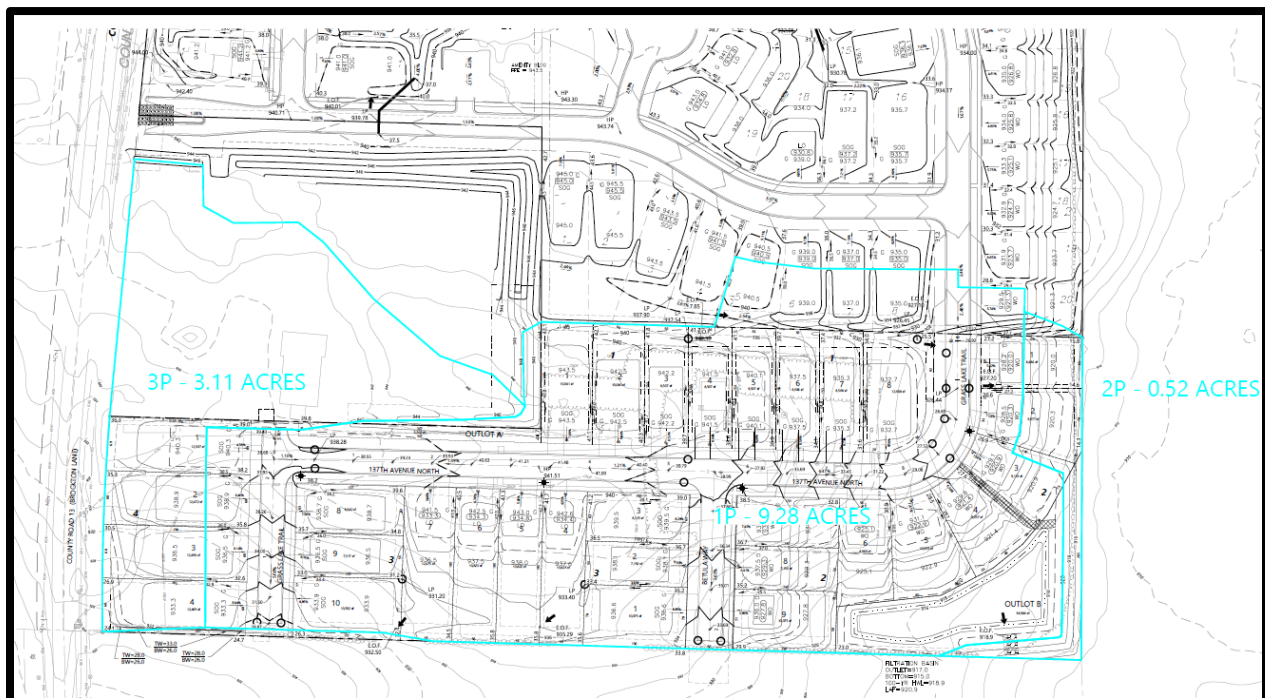


Figure 4 Proposed Grading and Drainage Pattern Map

Watershed Management Commission

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Email: jherbert@barr.com

Edgewater 3rd Addition City of Rogers Project #2021-008

Project Overview:

Location: North of the intersection of Edgewater Parkway and Industrial Boulevard.

Purpose: The applicant is proposing to develop the site into 64 single family residential lots. The site drains to a northeast regional pond, which drains northwest to the Crow River. An off-line infiltration basin in the SE corner of the project will provide volume reduction for the site. This work will disturb 17.7 acres and create 6.89 acres of new impervious.

WMC Rules Triggered:

X	Rule D	Stormwater Management
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: Rachel Development
Address: 4180 Napier Ct. NE
St. Michael, MN 55376

Attention: David Stradtman
Phone: 763-424-1525
Email: dstradtman@racheldevelopment.com

Agent: Carlson McCain
Address: 3890 Pheasant Ridge Dr. NE
Blaine, MN 55449

Attention: Joe Radach
Phone: 763-489-7900
Email: jradach@carlsonmccain.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	3/12/2021
	<input checked="" type="checkbox"/> City authorization: Rogers, MN	3/12/2021
	<input checked="" type="checkbox"/> Review fee: \$3,375.00	3/12/2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	3/10/2021
Submittals		
	1. Edgewater 3 rd Addition Storm Water Management Plans dated January 19, 2021. Revised February 17, 2021.	
	2. Edgewater 3 rd Addition Preliminary Plans for Preliminary Plat, Grading, Utilities, Erosion Control, and Landscape (10 of 10 sheets) dated January 19, 2021. Revised February 17, 2021.	

Findings

General

1. A complete application was received March 12, 2021. The initial 60-day decision period per MN Statute 15.99 expires May 11, 2021.
2. This is an existing 20.9-acre parcel recently reclaimed from sand/gravel mining operations.
3. The proposed improvements include the construction of 64 single family residential lots and their necessary infrastructure. The site drains northeast into an existing regional pond which drains to the Crow River 900 feet north.
4. This project will create 6.9 acres of new impervious area.
5. Stormwater management for this project consists of routing runoff to a proposed off-line infiltration basin. A splitter upstream of the infiltration basin will divert flow directly to the regional pond during periods of high flow.
6. The City of Rogers maintains the regional pond and will maintain the infiltration basin.
7. There are no Elm Creek Watershed jurisdictional floodplains, or stream crossings within the site.

Rule D – Stormwater Management (plans)

General

1. The project will disturb 20.9 acres. The new impervious area will be 6.9 acres.
2. The soils on the site are predominantly Hydrologic Soil Group Type C.
3. Soil borings indicate variable amounts of sandy clay or silty sand over poorly graded sand.
4. Stormwater will be managed on the site through one off-line infiltration basin. During periods of high flow, the site will discharge to the regional pond to the north.
5. The northern regional pond flows north into Crow River.

Low Floor Elevations

1. Low floor elevations **meet** Commission requirements.

Water Quality Controls

1. Water quality controls **meet** Commission requirements.
2. Existing soils at the infiltration basin are poorly graded sand which provide roughly 0.8 in/hr of drawdown.
3. There are 0.94 acres of impervious surface where runoff is not routed to the infiltration basin.
4. A Minimal Impact Design Standards (MIDS) model was prepared to determine compliance with Total Phosphorus (TP) and Total Suspended Solids (TSS) requirements.

Table 1 Water Quality Summary

Condition	TP Load (lbs/year)	TSS Load (lbs/year)	Infiltration (cubic feet) ⁽¹⁾
Pre-development (baseline)	4.8	870	
Post-development without BMPs	16.1	2,926	27,512
Post-development with BMPs	1.5	2	28,837
Net Change	-3.3	-868	+1,325

(1) 6.89 acres of new impervious

Rate Controls

1. All runoff from the site drains to the regional pond which discharges to the Crow River. The offsite discharge rate comparison is based on the discharge from the regional pond.
2. Rate controls for the 2-year and 10-year event **meet** Commission requirements.
3. The 100-year has a slight increase. The increase could be avoided by withholding more water in the infiltration basin, but this would keep one of the lots from meeting the low floor requirement. The rate increase is minimal, it would not affect flood elevations on the Crow River, and an acceptable tradeoff to meet the low floor requirement.

Table 2 Rate of Discharge Leaving Site – Edgewater 3rd Addition Development

Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Existing	3	12	85.0
Proposed	2	11	85.5
Change	-1	-1	+0.5

Abstraction Controls

1. Abstraction controls **meet** Commission requirements.
2. New impervious areas will be 6.9 acres requiring infiltration of 27,512 cubic feet.
3. Volume below outlet in the proposed infiltration basin is 28,837 cubic feet, which exceeds the volume abstraction requirement for 1.1 inches of runoff.

Rule E – Erosion and Sediment Control (plans)

1. Erosion control meets Commission requirements.
2. Silt fencing proposed surrounding regional pond and infiltration basin.

Recommendation

Approve

Conditions for Approval

1. None

Barr Engineering
Advisor to the Commission



April 6, 2021
Date

Attachments

Figure 1	Project Location
Figure 2	Project Area
Figure 3	Grading and Erosion Control Plan
Figure 4	Site Floodplain Map

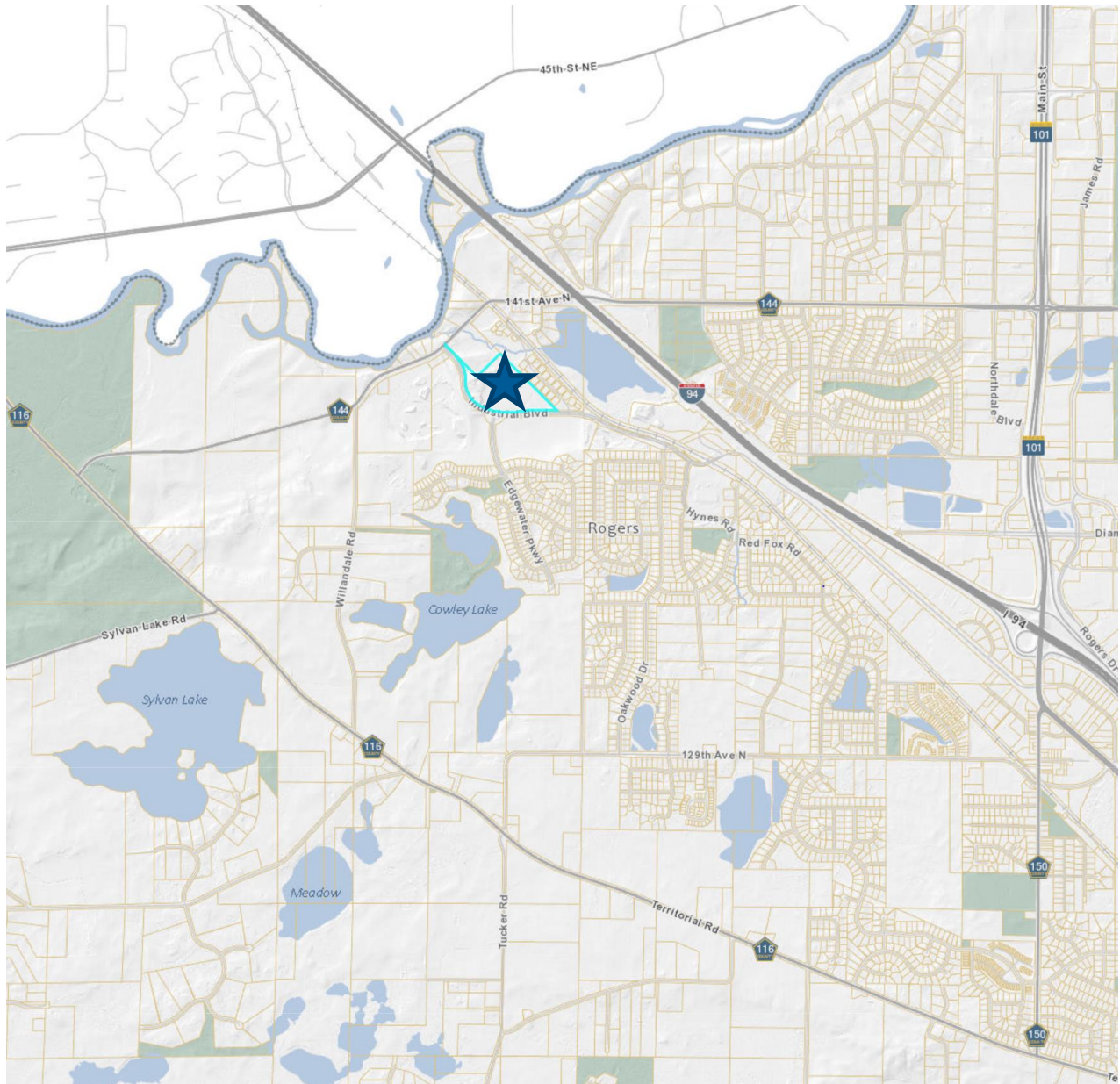


Figure 1 Project Location

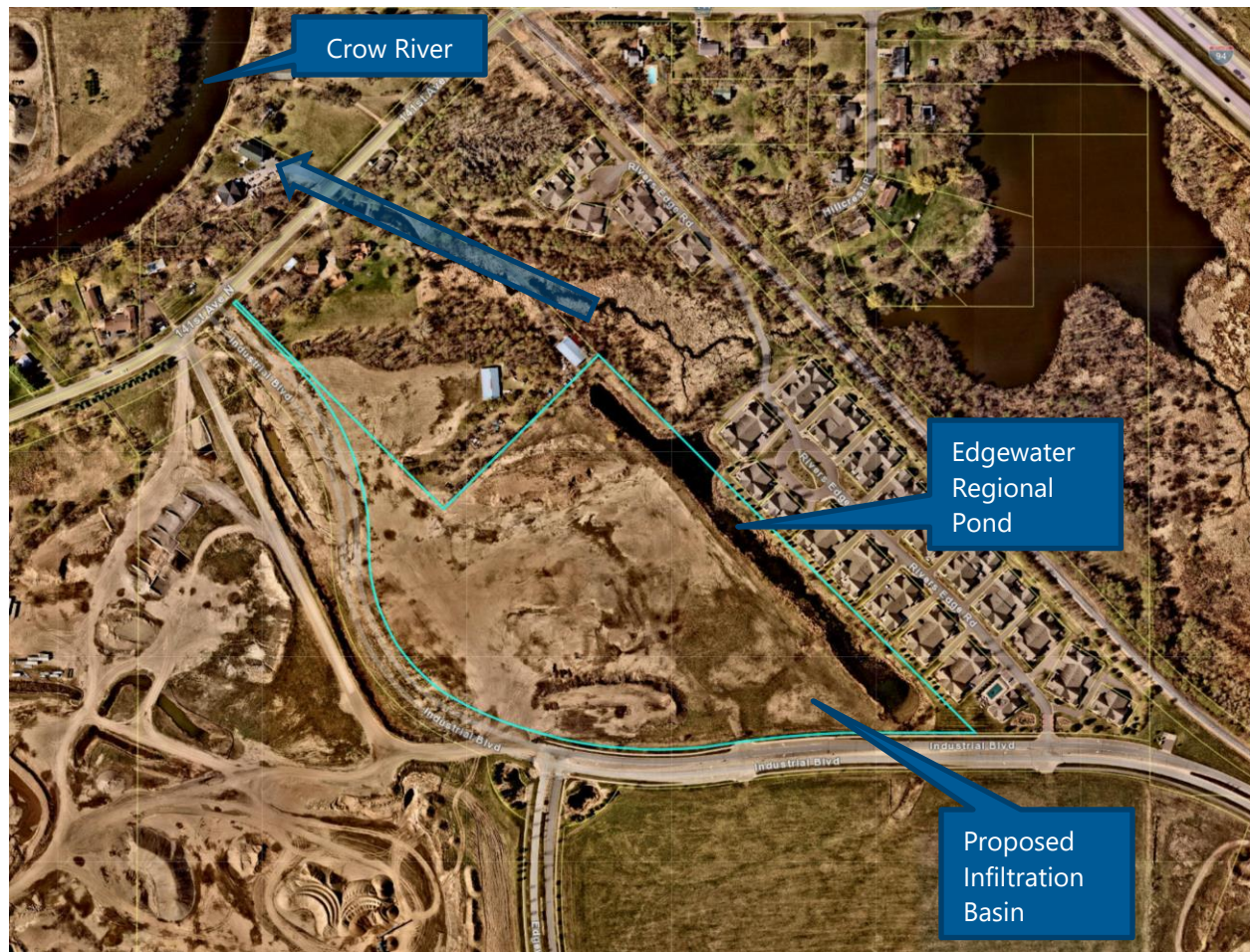


Figure 2 Project Area

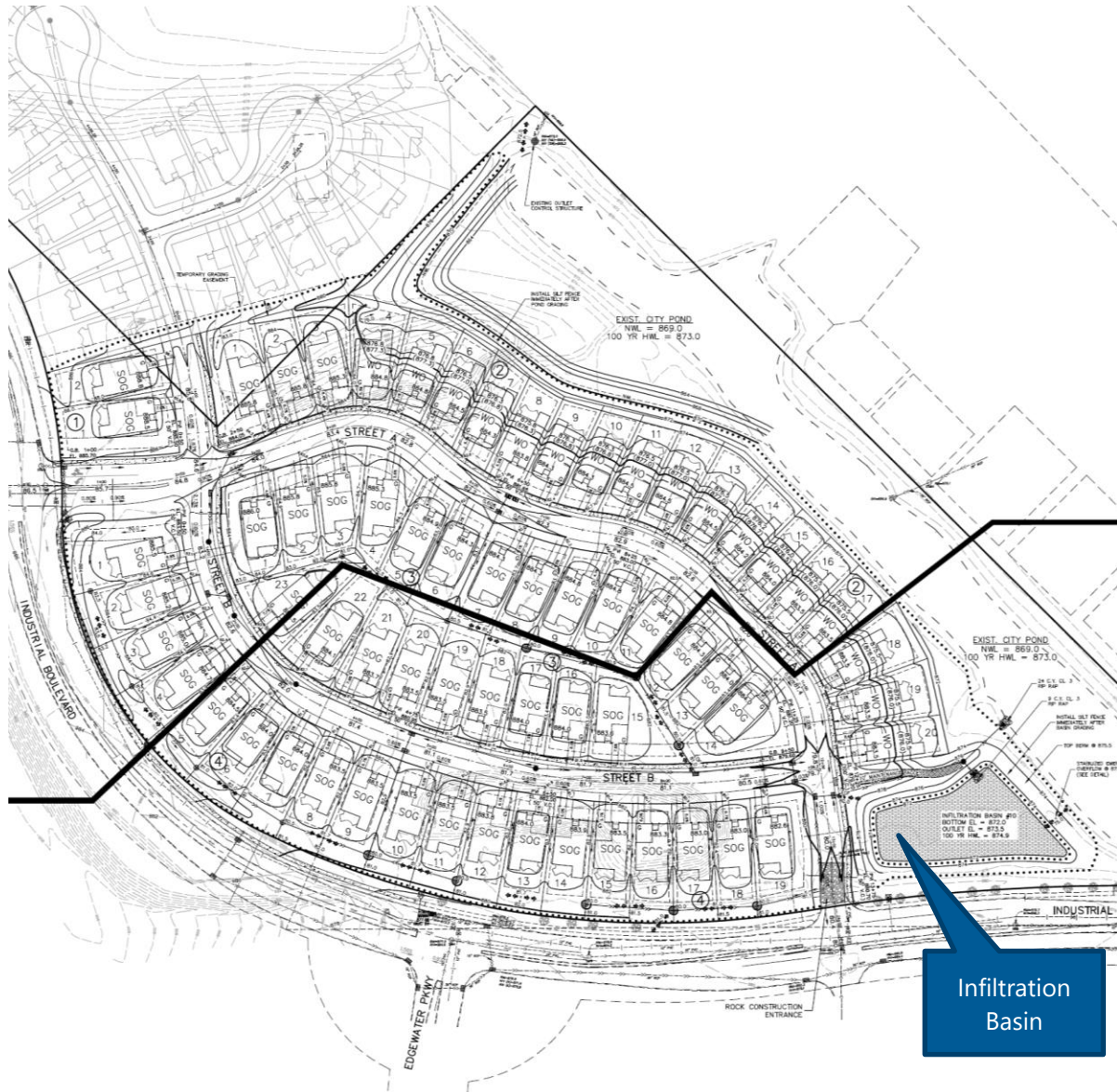


Figure 3 Grading and Erosion Control Plan



Figure 4 Site Floodplain Map

Watershed Management Commission

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Palisades at Nottingham 3rd Addition

Maple Grove, Project #2021-009

Project Overview:

<i>Location:</i>	This is a 5-acre project located east of Zanzibar Lane approximately 400 feet north of the intersection with Nottingham Parkway.		
<i>Purpose:</i>	The applicant is proposing to develop the site into seven single family residential lots. The site drains east into the Elm Creek basin. An existing stormwater pond from the original Palisades at Nottingham addition will be expanded to provide treatment and rate control for this project. This work will disturb 3.5 acres and create 1.45 acres of new impervious area.		
<i>ECWMC</i>	X	Rule D	Stormwater Management
<i>Rules</i>	X	Rule E	Erosion and Sediment Control
<i>Triggered:</i>		Rule F	Floodplain Alterations
	X	Rule G	Wetland Alteration
		Rule H	Bridge and Culvert Crossings
		Rule I	Buffer Strips

Applicant: Zehnder Homes Inc

Address: 14240 23rd Ave. N,
Plymouth, MN 55447

Attention: Eric Zehnder

Phone: 651-303-5747

Email: ericzehnder@zehnderhomes.com

Agent: Sathre-Bergquist

Address: 150 South Broadway
Wayzata, MN 55391

Attention: Eric Johnson

Phone: 952.476.6000

Email: ejohnson@sathre.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	3/17/2021
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	3/10/2021
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	3/10/2021
	<input checked="" type="checkbox"/> Review fee: \$3,375	3/17/2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	3/11/2021

Submittals

1. The Palisades at Nottingham 3rd Addition Site Plan by Sathre-Bergquist, Inc. dated February 22, 2021, with revisions dated March 4, 2021.
 - a. Sheet SP Site Plan
 - b. Sheet ALTA ALTA Survey
 - c. Sheet PP Preliminary Plat

- d. Sheet SW Preliminary Sanitary Sewer & Watermain Plan
 - e. Sheet SS Preliminary Storm Sewer Plan
 - f. Sheet GP Preliminary Grading Plan
 - g. Sheet EC Preliminary Erosion Control Plan
 - h. Sheet TS Tree Survey/Preservation Plan
2. Nottingham Development Stormwater Management plan by AE2S dated March 24, 2021.
 - a. Stormwater Requirements Summary.
 - b. Stormwater Management Methodology, Analysis and Results
 - c. Existing and proposed conditions and drainage areas
 - d. Web Soil Survey Report
 - e. HydroCAD modeling report for existing and proposed conditions
 - f. P8 modeling Output
 - g. Palisades at Nottingham SWMP by Landform dated March 16, 2020.
3. Zehnder Homes MN Wetland Conservation Act Notice of Application, wetland boundary/Type dated October 26, 2020.
4. City of Maple Grove MN Wetland Conservation Act Notice of Decision, wetland boundary/type dated November 20, 2020.

Findings

General

1. A complete application was received March 17, 2021. The initial 60-day decision period per MN Statute 15.99 expires May 16, 2021.
2. This is an existing 5-acre parcel consisting of 4.7 acres of woodland/wetland and 0.3 acres of impervious/home site. It currently drains east into the Elm Creek basin.
3. The project would construct seven single family residential lots and their necessary infrastructure. Approximately 1.7 acres will remain undisturbed in the east portion of the parcel.
4. Stormwater management for the project consists of routing runoff from this site to an existing wet pond with a filter bench. The pond will be expanded to facilitate the additional runoff from this parcel.
5. There are no Elm Creek Watershed jurisdictional floodplains, or stream crossings within the site.
6. There will be one wetland basin filled during this project. It will impact 5,721 square feet of wetland.
 - a. Wetland replacement plans have not been provided to the ECWMC at this time.

Rule D – Stormwater Management

General

1. Land use for the off-site areas was analyzed with current conditions. Future development of the areas south of this parcel will need to provide their own rate and water quality controls when they develop.
2. The project will disturb about 3.5 acres and create 1.45 acres of new impervious areas.
3. The soils on the site are predominantly Hydrologic Soil Groups Type C and D.
4. Soil borings from the Palisades at Nottingham First Addition indicate high clay content soils.

5. Stormwater will be managed on the site by expanding an existing wet pond with a filter bench. The water from the pond will flow into an existing storm sewer system, running east into a large wetland/floodplain complex that drains to Elm Creek about a half mile north of this site.
6. Low Floor Elevations are more than 2.0 feet above the 100-year elevation and 1.0 foot above the emergency overflow elevation for the pond and wetland on-site.
 - a. Pond 1 HWL = 964.3. EOF = 964.7
7. An additional 8.4 acres of off-site areas are analyzed for rate control comparison before and after development.
8. The City of Maple Grove operates and maintains stormwater facilities in residential areas.

Water Quality Controls

1. Water quality controls **meet** Commission requirements.
2. Soils are not conducive for infiltration.
3. Water quality and volume loads are estimated using the P8 model. The P8 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 from the pond/filter bench discharge point. The totals compare pre vs post conditions from the original Palisades at Nottingham plus this 3rd Addition.
4. Table 1 summarizes TP and TSS from the pond and filter bench outlet control pipe before development and after development with the expansion of the pond.

Table 1 Water Quality Summary

Condition	TP Load (lbs/year)	TSS Load (lbs/year)	Filtration (cubic feet) ⁽¹⁾
Pre-development (baseline=pre-development, Palisades at Nottingham 1 st + Palisades 3rd)	2.1	616	N/A
Post-development without BMPs	11.2	3,567	4,320 (1 st Addition) <u>5,790</u> (3rd Addition) 10,010 (required)
Post-development with BMPs (pond expansion)	2.0	332	7,035 (1 st Addition) <u>7,930</u> (3rd Addition) 14,965
Net Change	-0.1	-284	+4,955

(1) 3rd Addition will create 1.45 acres of new impervious area. 1st Addition created 1.1-acres of new impervious area.

Rate Controls

1. Rate control measures **meet** Commission requirements.
2. Rate control for the site is provided by expanding the existing pond and filter bench.
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 – Palisades at Nottingham

Discharge Location	Condition	Area (acres)	2-year (cfs)	10-year (cfs)	100-year (cfs)
Overall	Existing	13.4	9.8	24.0	56.9
	Proposed	13.4	4.8	21.0	46.3
	Change	0	-5.0	-3.0	-10.6

Abstraction Controls

1. Abstraction controls **meet** Commission requirements.
2. New impervious areas will be 1.45 acres, requiring filtration of 5,790 cubic feet.
3. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible because the site consists of clay soils. The Applicant proposes expand the existing wet detention pond and filter bench area to meet abstraction requirements.
4. Pretreatment is provided in the wet detention pond.
5. Table 1 summarizes abstraction (filtration) volumes and treatment provided for this site.

Rule E – Erosion and Sediment Control

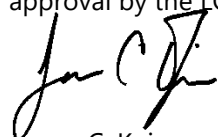
1. Plans meet Commission requirements for erosion and sediment control.

Rule G- Wetland Alteration

1. Wetland Alterations **do not meet** Commission requirements.
2. There is one wetland on site that is proposed to be filled. 5,271 square feet of wetland will be impacted.
3. The wetland replacement plan has not been provided to the ECWMC for review. The City of Maple Grove is the LGU in charge of administering the MN WCA.
4. Maple Grove wetland rules are in accordance with the Commission's Rule G.

Recommendation

Approval conditioned upon final wetland replacement plan submittal, review by permitting agencies, and approval by the LGU prior to impacts.



James C. Kujawa
Surface Water Solutions
On Behalf of Barr Engineering
Advisor to the Commission

April 1, 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 Proposed Grading Plan

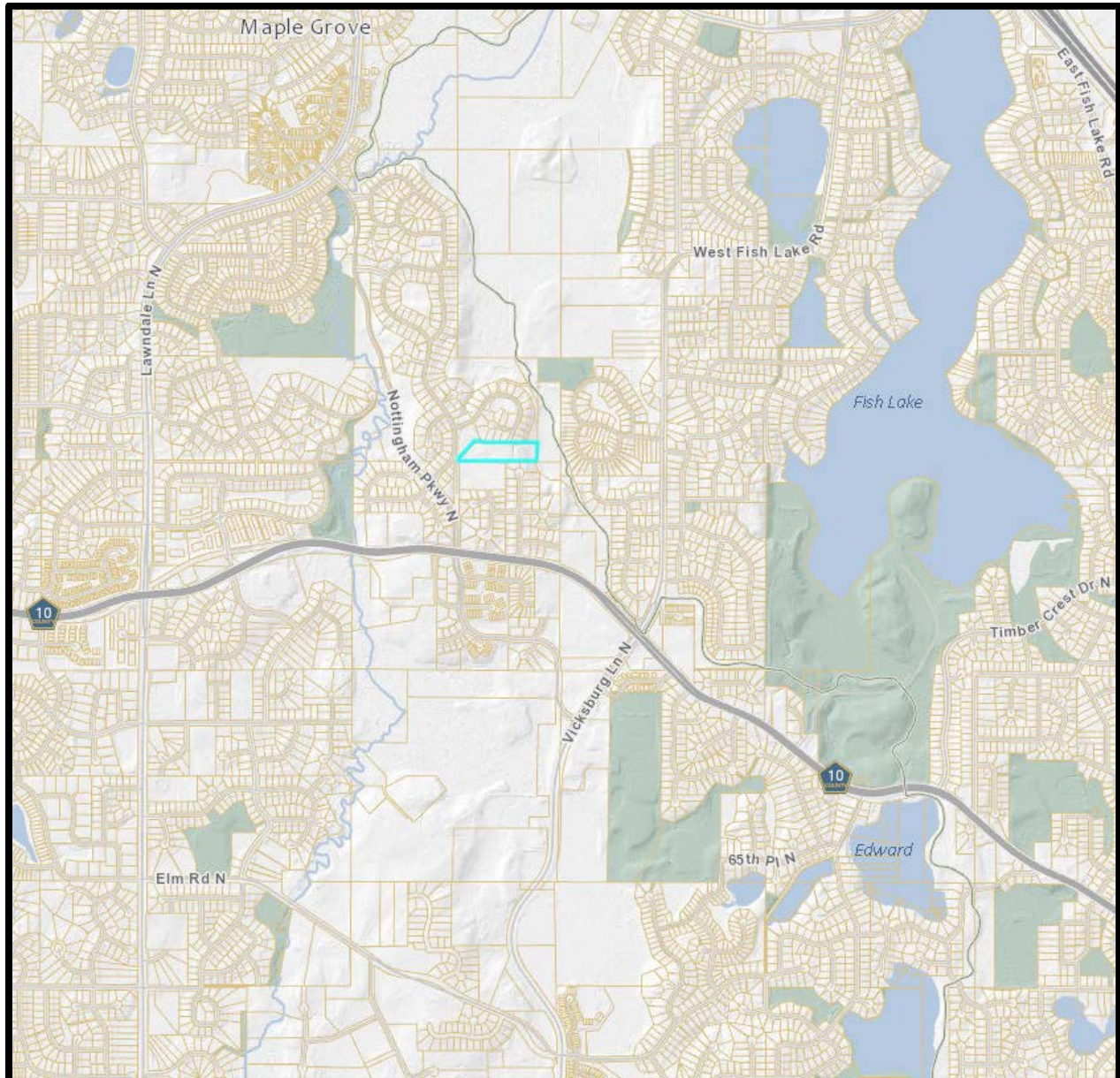


Figure 1 Site Location Map

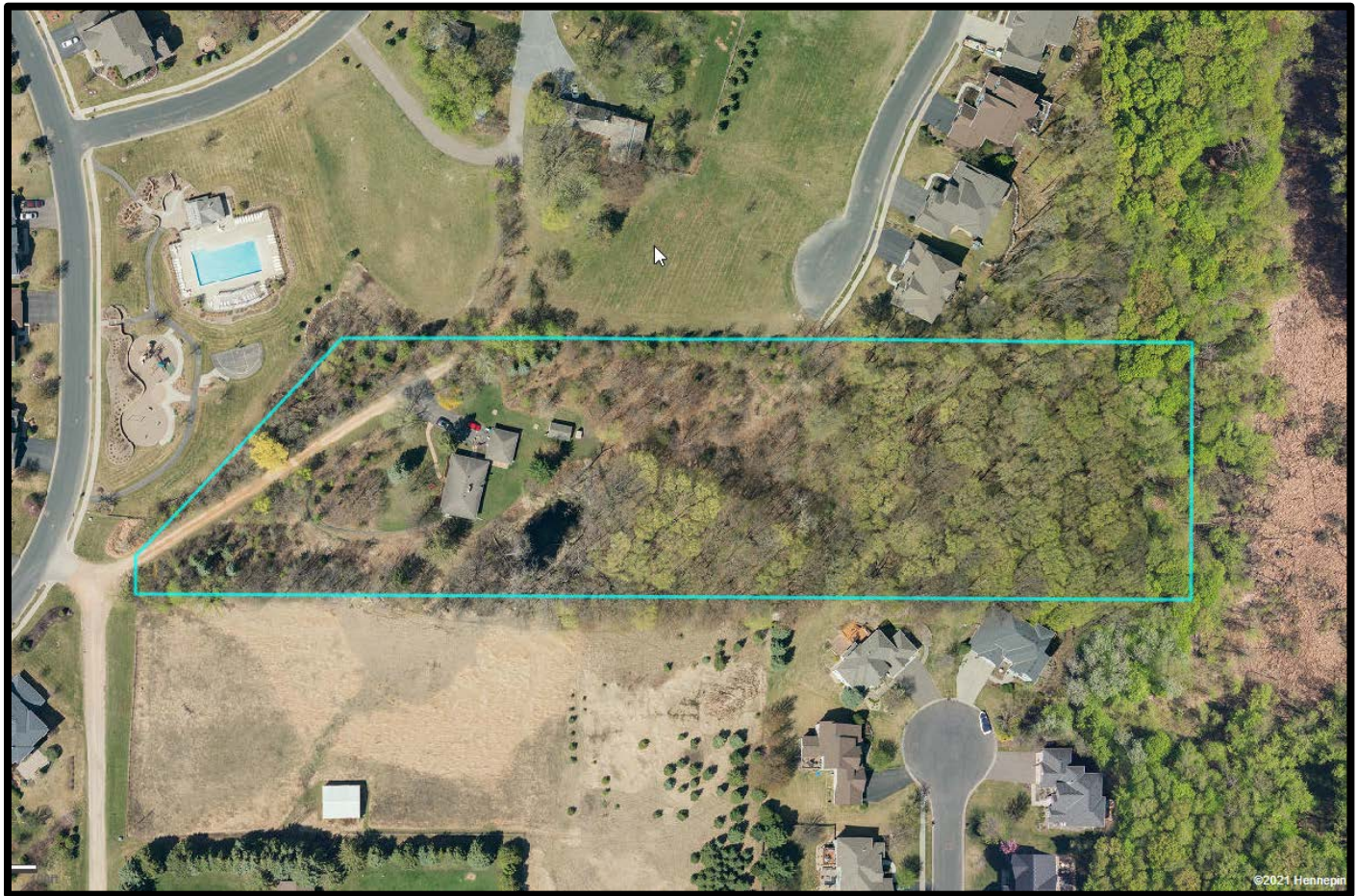


Figure 2 Aerial Imagery

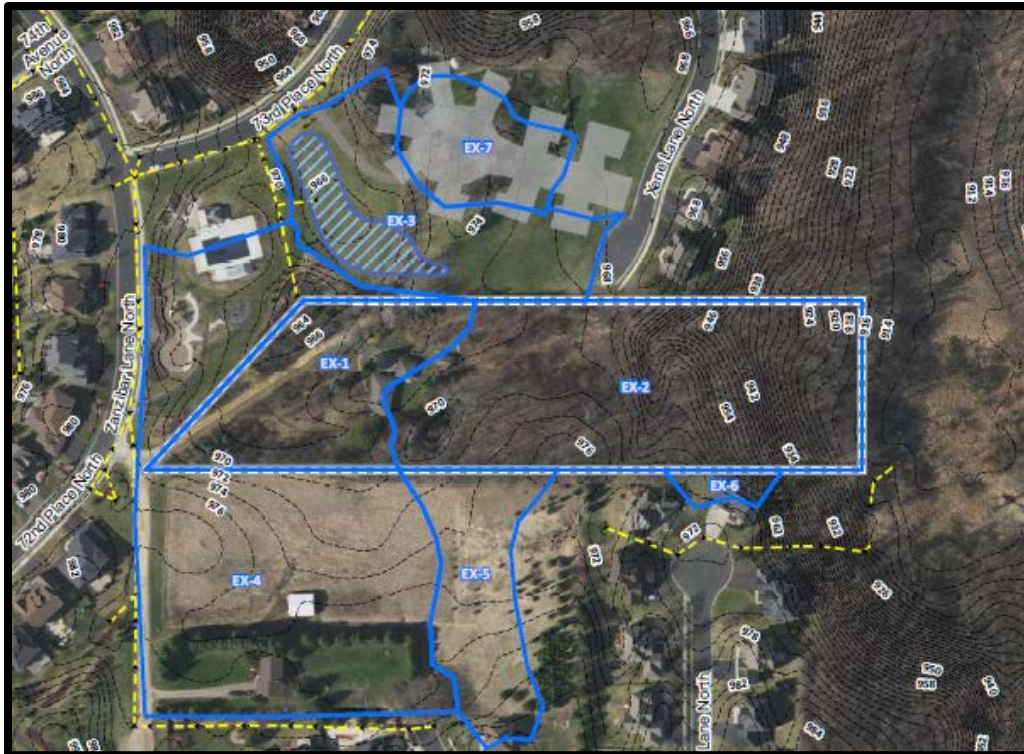


Figure 3 Existing Drainage Pattern Map

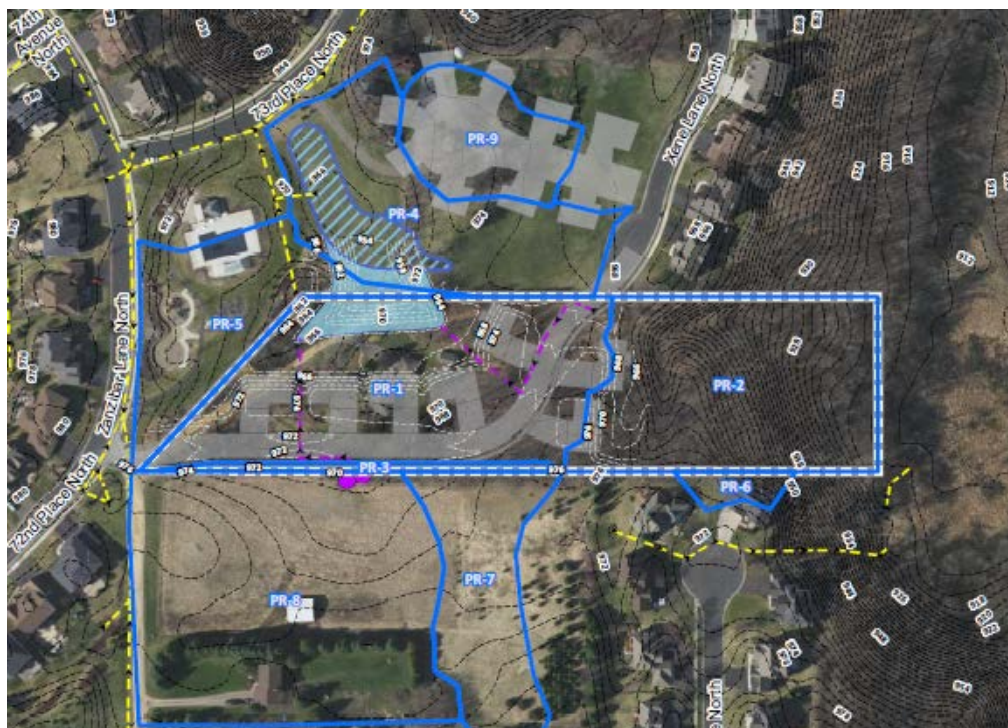


Figure 4 Proposed Drainage Pattern Map

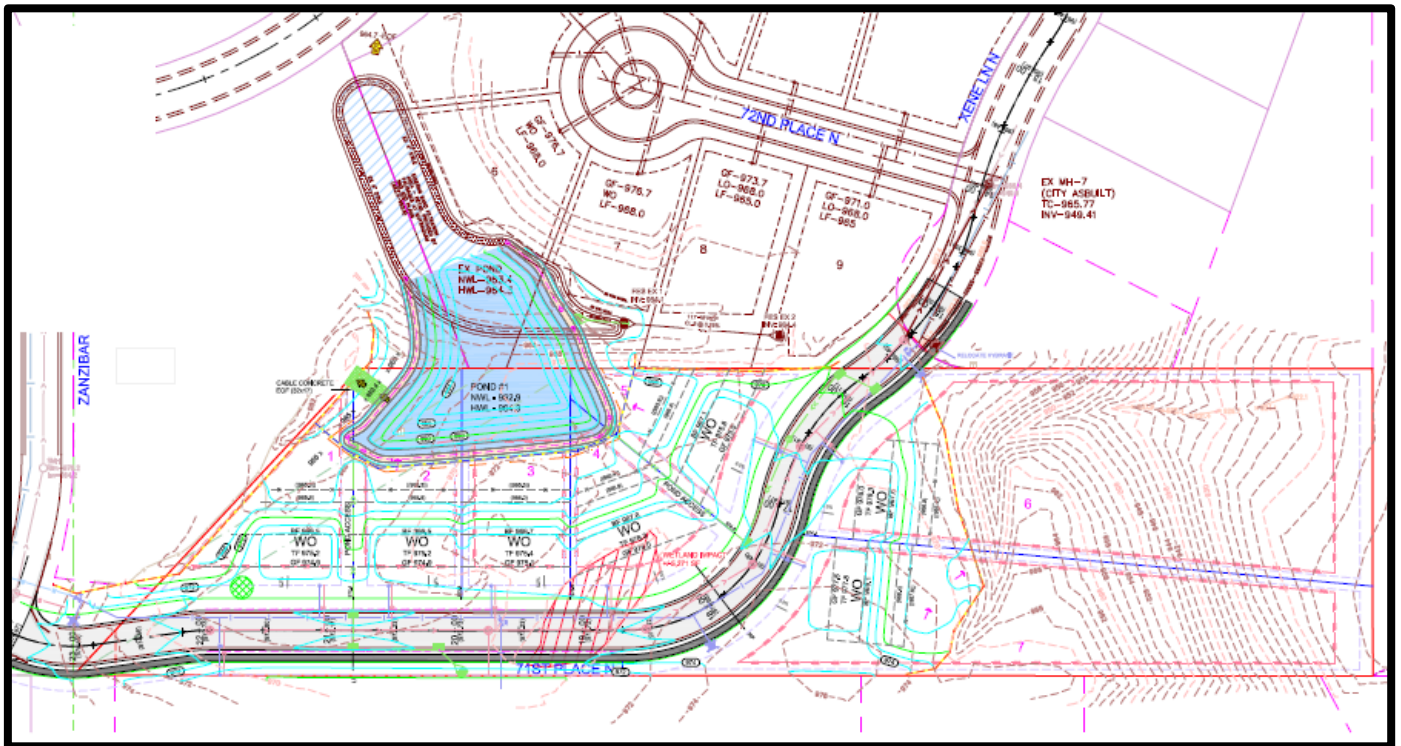


Figure 5 Proposed Grading Plan

Watershed Management Commission

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Graco Building 1

City of Dayton Project #2021-011

Project Overview:

Location: West of French Lake and south of Grass Lake. South of French Lake Road.

Purpose: The proposed work at the French Lake Industrial Center includes construction of an industrial building, parking lots, and the extension of French Lake Road as a private drive. Site runoff will discharge to a stormwater pond to the north (Pond 3P). The project would disturb 38.9 acres and create 18.2 acres of new impervious surface. The development plan for French Lake Industrial Center was approved as part of project # 2015-011. This is an administrative review for compliance with the previously approved plan.

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: Graco Minnesota Inc.

Address: 88 11th Ave NE
Minneapolis, MN 55413

Attention: Michael Hatling

Phone: 612-804-7647

Email: Michael_K_Hatling@graco.com

Agent: Sambatek

Address: 12800 Whitewater Dr, Suite 300
Minnetonka, MN 55343

Attention: Chad Ayers

Phone: 763-259-6697

Email: cayers@sambatek.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	3/19/2021
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	3/10/2021
	<input checked="" type="checkbox"/> City authorization: Dayton, MN	3/19/2021
	<input checked="" type="checkbox"/> Review fee: \$3,375.00	3/19/2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	3/10/2021
<i>Submittals</i>		
	1. Stormwater Management Plan Memorandum prepared by Sambatek dated February 11, 2021.	
	2. French Lake Industrial Center Phase I Construction Plan Set (13 Sheets) dated February 1, 2021. Revised March 1, 2021.	

3. Graco Landscape Plan, Shrub Plan, Details, and Notes (3 Sheets)
dated March 9, 2021.

Findings

General

1. A complete application was received February 19, 2021. The initial 60-day decision period per MN Statue 15.99 expires May 18, 2021.
2. The site drains to an existing stormwater pond (Pond 3P) and bioinfiltration basin (3P-2) to the north.
3. Work done on this site includes the construction of a new building (Building 1) and associated parking lots and sidewalks.
4. There are no Elm Creek Watershed jurisdictional floodplains, wetlands, or stream crossings within the site.

Rule D – Stormwater Management (plans)

General

1. The review of stormwater management for French Lake Industrial Center was done for project #2015-011.
2. Additional review for the updated site configuration was done for project #2019-017.
3. Site runoff drains to Ponds 3P and 3P-2.
4. Since the 2015 approved submittal, the proposed total drainage area for Ponds 3P and 3P-2 as increased from 54.41 to 60.72 acres.
5. Impervious area routed to Ponds 3P and 3P-2 remains the same since the 2015 approved submittal at 43.5 acres.

Water Quality Controls

1. Water quality controls continue to **meet** Commission requirements.
2. Ponds 3P and 3P-2 were sized in project #2015-011 to provide treatment to runoff from 43.5 acres of impervious surface.
3. Combined, the built-out Building 1 site, existing roadways, and the Spears Manufacturing site will send runoff from 35.6 acres of impervious area to Pond 3P and 3P-2. Water quality controls will be sufficient after completion of Building 1.
4. The proposed Building 3, to be constructed directly south of Building 1, will have roughly three quarters of its site impervious routed to 3P and 3P-2, bringing the total impervious drainage to 43.5 acres.

Rate Controls

1. Rate controls continue to **meet** Commission requirements.
2. Runoff leaving the site discharges to either Grass Lake and French Lake.
3. Drainage was modeled for the full site in the 2015 submittal. Drainage areas and runoff rates have not significantly changed since 2015. Table 2 shows rate control provided for runoff to French Lake. Table 3 shows rate control provided for runoff to Grass Lake.

Table 1 Rate of Discharge Leaving Site – To French Lake

Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Existing	56.1	116.6	254.8
Proposed	21.9	42.1	105.1
Change	-34.2	-74.5	-149.7

Table 2 Rate of Discharge Leaving Site – To Grass Lake

Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Existing	58.8	136.0	304.6
Proposed	52.6	109.6	239.2
Change	-6.2	-26.4	-65.4

Abstraction Controls

1. Abstraction controls continue to **meet** Commission requirements.
2. The 2015 stormwater management plan required a total of 2.7-acres of greenspace to be irrigated. There is 2.84 acres of greenspace will be irrigated with water pumped from 3P.
3. To meet the remaining abstraction requirements, the applicant has agreed to acquire wetland buffer credits.
4. The combination of irrigation, wetland buffer credits, and abstraction volume provided below the draintile of basin 3P-2 meet the required abstraction volume for the site.

Rule E – Erosion and Sediment Control (plans)

1. Erosion and sediment control plans **meet** Commission requirements.
2. For the construction of Building 1, three phases of erosion control are laid out.

Administrative Approval

Staff grant administrative approval of this project.

Conditions for Approval

1. None

Barr Engineering
Advisor to the Commission



April 7, 2021
Date

Attachments

- Figure 1 Project Location
- Figure 2 Project Area
- Figure 3 Grading Plan/Drainage Plan/Floodplain Map, etc.

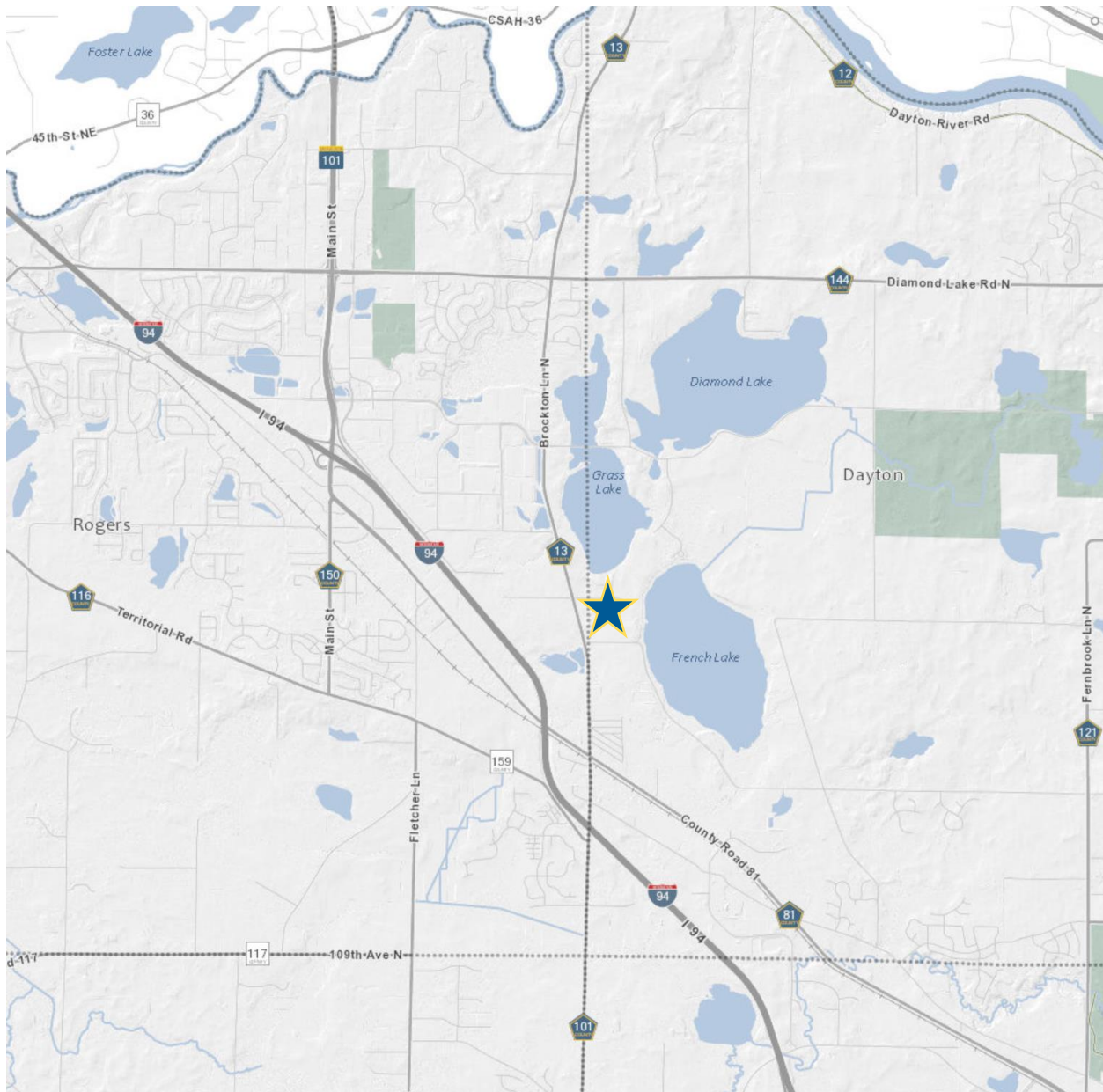


Figure 1 Project Location



Figure 2 Project Area

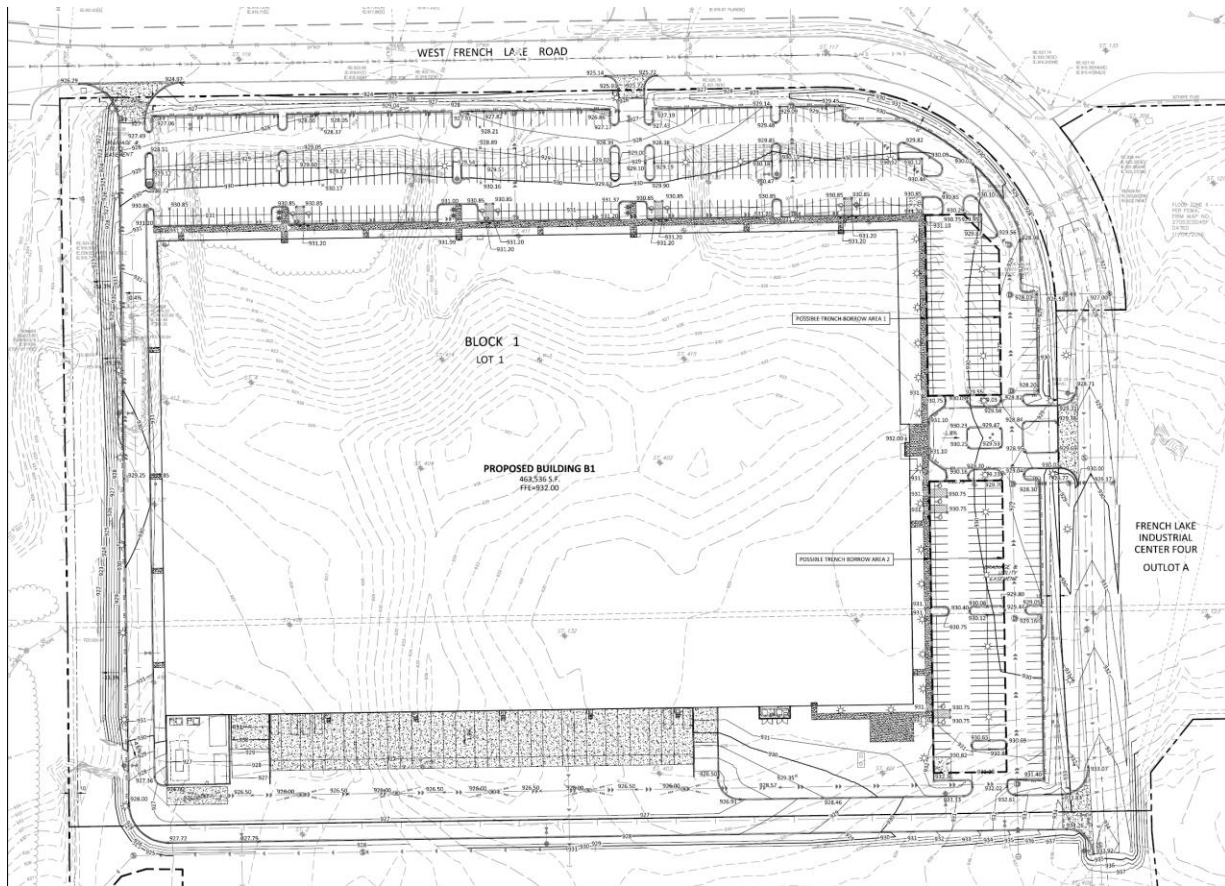


Figure 3 Site Grading Plan

HENNEPIN COUNTY

MINNESOTA

DATE: April 8, 2021

TO: Elm Creek Watershed Management Commission (ECWMC)

FROM: Kris Guentzel; Hennepin County Department of Environment and Energy

RE: April ECWMC Updates

2021 Watershed Service Agreement

Update: The cooperative agreement is still making its way through the Hennepin County signature process. We will share a fully executed version of the agreement with the Commission as soon as it is available.

Previous: In order to partner in sharing the cost of implementing Rush Creek Clean Water Fund (CWF) projects, as well as making use of the Elm Creek WMC capital funds allocated to this geography, a watershed service agreement with Hennepin County will be needed this year. Hennepin County staff have drafted this Scope of Services and included it in March Commission meeting packet materials for feedback. Please provide any feedback and/or questions you can during the March Commission meeting. Based on your feedback and questions, the agreement will be revised and included for review and action for the April meeting.

Personnel Changes

Hiring Conservation Specialist

Update: The new Conservation Specialist, Kevin Ellis, begins work on April 12th and will attend his first Elm Creek WMC meeting in May.

Previous: Hennepin County Environment and Energy recently posted for a Conservation Specialist, who is being brought on to lead implementation of the Rush Creek CWF Implementation Grant and other rural conservation initiatives of the department. The county received nearly 140 applications, from which a small subset will receive interviews. The interview panel will be made up of Hennepin County staff, along with Ken Guenther. Thanks Ken for your help!

Subwatershed Analyses

Diamond Lake

No update.

Previous: Hennepin County staff met with Wenck staff, Nico Canterero and Jeff Strom, to discuss assistance on development of the Diamond Lake Subwatershed Analysis. Wenck staff are in the process of completing report deliverables, which county staff will ground truth and provide feedback on implementation feasibility. This work will be completed later this winter or early spring following snowmelt.

Rush Creek Clean Water Fund Implementation Grant

Update: Final or near final designs and engineer's estimates have been received on several projects over the past few weeks. See chart below for estimates and shares from all funding sources. Note that Grant end date is currently 12/31/21. County staff have discussed a one-year grant extension with BWSR Board Conservationist Steve Christopher. Staff were advised to request an extension once contracting has been completed for first rounds of Jubert Lake projects (see below).

Anticipated Construction	Project	Engineer's Estimate	Commission Share Estimate	Hennepin & LO Share Estimate	Grant Share Estimate
Spring 2021	Top of Hill WASCOB + Waterway	\$32,704.80 [#]	\$8,176.20	\$3,270.48	\$17,987.64
	Arens WASCOB + Waterway	TBD	TBD	TBD	TBD
Fall 2021	Phase 1 BMP 4 – Waterway	\$13,360	\$3,340	\$1,336	\$7,348
	Phase 1 BMP 9 – 2 Waterways	\$26,275	\$6,568.75	\$2,627.50	\$14,451.25
	Phase 1 BMP 13 – 4 Waterways	\$48,127	\$12,031.75	\$4,812.70	\$26,469.85
	Phase 1 BMP Other – Creek Bank Stabilization at Field Crossing	\$7,840	\$1,960	\$784	\$4,312
2022	Phase 1 BMP 11 – Wetland Expansion	\$75,610	\$18,902.50	\$7,561	\$41,585.50
	TOTAL	\$203,916.80	\$50,979.20*	\$20,391.68**	\$112,154.24***

[#] Bid estimate from contractor

*Commission Capital Funds remaining = \$55,747

**Hennepin and Landowner will contribute 10% each, values in column represents contribution from each party

***Grant funds unencumbered = \$31,443.40

Previous: Hennepin County is hiring a Conservation Specialist who will focus their work on completing implementation of the Rush Creek CWF grant. County staff are working internally to develop an outreach & marketing campaign to seek out landowners to work with in spring and summer 2021. County staff will engage ECWMC for feedback on this outreach & marketing campaign and will seek assistance (where appropriate) to improve its outreach potential.

Project / Program Updates

Jubert Lake Agricultural BMPs

Update:

- “Phase 1” projects (7 grassed waterways, 1 wetland expansion, 1 creek stabilization): Designs have been shared with landowner for review. Engineer’s estimate for all projects is \$171,000. Because of the amount the county will contract this year with Stotts Family Farms, LLC, approval of these projects will be brought to the County Board for action on May 4.
 - Waterways and creek stabilization construction likely for fall 2021; wetland expansion is more complicated involving an additional neighbor so construction likely 2022
- “Top of Hill WASCOB + Waterway”: Designs are complete and contracting with Stotts Family Farms LLC is in process. Bid estimate for this project is \$32,704.80.
- Arens WASCOB + Waterway: Engineer requested additional survey, which was completed week of March 29th. During survey, staff identified water intakes in the road right of way that appear to drain toward the proposed BMP location. Staff will require information from the City of Corcoran about those intakes in order to accurately estimate volumes and capacity at the BMP location.
- “Phase 2” projects and wetland consulting: County will be requesting proposals for engineering services and wetland permitting assistance.

Previous: Designs for two projects are finalized and Phase 1 projects along the creek and associated tangential drainage BMPS are going through final edits and then off to landowner for final approval.

These projects are on multiple parcels west of Jubert Lake. Design and implementation are being funded through a funding partnership with ECWMC, Hennepin County, the State of MN (Rush Creek CWF grant), and the parcel landowners.

10000 Ebert Road: Landowner referred to county staff by NRCS after the Conservation Reserve Program did not seem to be the right fit for landowner’s conservation objectives. Overall objective is to convert the full 120-acre parcel from agricultural use to restored habitat, which will occur in phases over a timeline that has not yet been determined. County convened a site visit with landowner, USFWS, and NRCS during the week of March 29th. Next step will be to confirm presumed tile locations. Likely BMP projects in the short-term will be grading and planting grassed waterways in several areas, and beginning planning, design and engineering work to restore up to 16 individual drained wetlands on the property with native buffers.

Other Landowner Conservation Assistance:

25880 Territorial Road, Rogers: Landowner requested information about low interest loan options for replacement of a failing septic system. Staff recommend working through Ag BMP Loan process to access low interest financing. Landowner seeking quote and researching options with participating banks.

14100 117th Ave. N., Dayton: Landowner requested information about technical and financial assistance available to add pollinator habitat to about 4 acres of former pasture land. Staff have assisted landowner to identify several locations for “pollinator nodes” in a dense stand of warm season grasses. Areas will be prepped for forb seed with 2 sprays and some mowing June through September 2021. USFWS Partners for Fish and Wildlife Program will provide seed to be sowed over snow during the winter of 2021/2022.

Refuge at Rush Creek Wetland Bank: Neighbors contacted staff regarding City of Corcoran’s public notice for a Drainage and Utility Easement Vacation. Staff referred questions to City of Corcoran’s wetland consultant.

Agricultural Soil Health Initiative

Update: Staff have received interest in one farm in the Pioneer-Sarah watershed with interest in planting cover crops. Plan to send a follow-up mailer to all those that received the original mailers in May.

Previous: In late February, Hennepin County staff sent a few dozen mailers to targeted farmers regarding cover crops and other soil health initiatives. County staff will be sharing those materials with the Commission as they become available.

From: Jeff D. Strom <jstrom@wenck.com>

Sent: Thursday, April 8, 2021 1:18 PM

To: Judie Anderson <Judie@jass.biz>; Doug Baines <dougbaines@yahoo.com>

Cc: Jason P. Quisberg <jquisberg@wenck.com>; Nico A. Cantarero <ncantarero@wenck.com>

Subject: Diamond Creek SWA Update 4/8/2021

Good afternoon Judie and Doug,

Below is an update on the Diamond Creek SWA Project. Items that have changed since my last update are bolded in red. Please feel free to pass this update along to members of the Commission and TAC.

Hennepin County (Kris Guentzel and Paul Stewart) has graciously offered to perform site visits of the rural BMPs sited during our modeling analysis. They will be conducting the site visits in mid/late April and will get us their final edits/recommendations by early May. Also, TRPD staff has offered to compile and process the field data they collected during their Diamond Creek Channel Condition Assessment back in 2012. We will use this data to identify a prioritized list of problem areas to include in the final report. TRPD is working on that data right now.

The above items that Hennepin County and TRPD are working on will add significant value to the final report. We have pretty good start on the report, but will hold off on submitting the final draft to the stakeholders for review until we receive and incorporate these pieces from the County and TRPD (likely in the next 4-6 weeks). I noted the changes to our timeline below in my update. Please reach out with any questions. Nico will also be at the Commission meeting next week and can answer any questions or comments on the SWA.

Thanks

Diamond Creek SWA Status Update 4/8/2021

- Urban Retrofit BMP Practices.
 - Desktop recon and field visits done by Wenck/Stantec engineers in late summer 2020 to assess and ID potential locations for regional BMPs in developing areas, and retrofit BMPs in currently developed areas of the subwatershed.
 - **Planning level design and cost estimates of identified practices are complete**
- Rural (structural) BMP Practices.
 - GIS modeling tools (ACPF) developed in early 2020 to identify potential locations for rural BMPs/conservation practices.
 - Desktop review and refinement of rural BMPs identified through ACPF done by Wenck/Stantec staff in early summer 2020.
 - Refined list of rural BMPs sent to Kirsten Barta (Hennepin County) for review in late summer 2020
 - In early January 2021, Wenck/Stantec staff met with Hennepin County staff (Kris Guentzel and Paul Stewart) to provide list and GIS information of rural BMPs for final review. Hennepin County Staff currently reviewing the final list of rural BMPs
 - **Hennepin County will be conducting site visits in mid/late April to evaluate and refine the rural BMPs identified by the ACPF model. Results of the County's site visits will be supplied to Wenck/Stantec for incorporation into final report.**
- In-channel Improvements

- **Wenck/Stantec staff met with TRPD staff last month to discuss potential in-channel practices/restoration opportunities for Diamond Creek through the park.**
- **TRPD staff is currently compiling, reviewing, and processing results of their channel assessment surveys conducted in 2012. In the next few weeks, TRPD will provide Wenck/Stantec a list of priority areas for in-stream projects to include in the final report.**
- **Wenck/Stantec is evaluating planning level costs and feasibility of a potential stream re-meander project along Diamond Creek downstream of Diamond Lake. This project will be included in the final report.**
- In-lake management (internal load)
 - Wenck/Stantec staff has completed planning-level cost estimates and feasibility for drawdown scenarios for French and Diamond Lakes
 - Wenck/Stantec staff has completed planning-level cost estimates for alum treatment on Diamond Lake
 - Wenck/Stantec staff will include a discussion in the final report of potential options for fisheries management in Diamond and French Lakes
- Septic Assessment
 - Concurrently, work is being done to complete the City of Dayton's Septic Inventory and Assessment project.
 - **Results of the City's Septic Inventory and Assessment Project were used to identify the number of septic systems (i.e. maps were created) in the Diamond Creek Subwatershed, and potential opportunities for improvements**
- Land Management
 - Wenck/Stantec staff will be working with Hennepin County Staff (Paul Stewart and Kris Guentzel) to draft language in the report regarding county/state programs and land management initiatives such as feedlots, manure management, soil health, etc..
 - **Feedlots and animal operations within the Diamond Creek Subwatershed were identified, processed, and mapped and will be presented in the final report.**
- **Final Report**
 - **Wenck/Stantec staff has been working on drafting final report. Draft report will be ready for stakeholder review in May after we incorporate assessment items from Hennepin County and Three Rivers Park District**

Jeff Strom

Water Resources Scientist

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Golden Valley MN 55427



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