

# elm creek Watershed Management Commission

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November 1, 2017

Representatives  
Elm Creek Watershed Management Commission  
Hennepin County, MN

*The meeting packet for this meeting may be  
found on the Commission's website:  
<http://elmcreekwatershed.org/pages/Meetings/>*

Dear Representatives:

A **regular meeting** of the Elm Creek Watershed Management Commission will be held on **Wednesday, November 8, 2017, at 11:30 a.m.** in the Mayor's Conference Room at Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN.

The **Technical Advisory Committee (TAC)** will meet at 10:00 a.m., prior to the regular meeting, to continue discussion of the Rush Creek Headwaters Subwatershed Assessment project.

Please email Beverly at [blove@jass.biz](mailto:blove@jass.biz) to confirm whether you or your Alternate will be attending the TAC and the regular meetings.

Thank you.

Regards,



Judie A. Anderson  
Administrator  
JAA:tim  
Encls: Meeting Packet

cc: Alternates  
Joel Jamnik  
TRPD

HCEE  
Diane Spector  
Clerks

BWSR  
Met Council  
Official Newspaper

MPCA  
DNR

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# elm creek

## Watershed Management Commission

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### AGENDA November 8, 2017

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. Affirm the actions of the Executive Committee.
    - 1) Approval of October Treasurer's Report and Claims.\*
    - 2) Approval of Project Reviews.\* (*See Staff Report.*)
  - b. Project Reviews – *see Staff Report.*\*
5. New Business.
6. Grant Opportunities and Updates.
  - a. Fish Lake Internal Phosphorus Loading Control.\* (*See Staff Report.*)
  - b. Rush Creek Headwaters Subwatershed Assessment.\* (*See Staff Report.*)
7. Education.
  - a. The Lake Effect: Protecting Water through Innovative Collaboration.\*  
<https://freshwater.org/moos-family-lecture-series/>
8. Elm Creek Watershed-wide TMDL.
9. Watershed Management Plan.
10. Communications.
11. Project Reviews – *also see Staff Report.*\*
12. Other Business.
13. Adjourn.

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Project Reviews. (See Staff Report. *)						
a.					2013-046	Woods of Medina, Medina.
b.					2014-015	Rogers Drive Extension, Rogers.
c.					2015-004	Kinghorn Outlet A, Rogers.
d.				AR	2015-006	Veit Building Expansion, Rogers.
e.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
f.					2016-002	The Markets at Rush Creek, Maple Grove.
g.					2016-004	Park Storage Place, Corcoran.
h.					2016-005W	Ravinia Wetland Bank Plan, Corcoran.
i.			R	AR	2016-018	Cambridge Park, Maple Grove.
j.			R	AR	2016-022	AutoZone, Maple Grove.
k.				AR	2016-026	Faithbrook Church, Dayton.
l.					2016-040	Kinghorn 4th Addition, Rogers.
m.					2016-047	Hy-Vee Maple Grove #1 (Hy-Vee Maple Grove North).
n.				AR	2016-052	The Woods at Rush Creek, Maple Grove.
o.					2017-002	RDO Site Plan, Dayton.
p.					2017-004W	Cartway Trail, Champlin.
q.					2017-013W	20417 Larkin Road, Corcoran Wetland Violations, Corcoran.
r.				AR	2017-014	Laurel Creek, Rogers.
s.				AR	2017-016	Territorial Woods, Maple Grove.
t.				AR	2017-017	Mary Queen of Peace Catholic Church, Rogers.
u.					2017-019	Medina Senior Living Community, Medina.
v.				AR	2017-021	Hindu Society of MN Staff Housing, Maple Grove.
w.	A	E			2017-022	CSAH 81 / CSAH101 & 13 Intersection Improvements, Rogers <b>Approved by Excom in Oct.</b>
x.			R		2017-023	Midwest Steel Supply, Rogers.
y.			R		2017-024	Lil Explorers Daycare, Rogers
z.					2017-027W	Mill Pond Restoration, Champlin.
aa.					2017-028W	Fehn Meadows Wetland Bank, Corcoran.
ab.					2017-029	Brayburn Trails, Dayton.
ac.					2017-030	Brindle Path, Medina.
ad.	A	E			2017-031	Bass Lake Crossing, Corcoran.
af.				AR	2017-034	Plymouth Memory Care, Plymouth.
ag.					2017-035	Weston Woods of Medina PUD, Medina.
ah.	A	E			2017-036	Enclave at Elm Creek, Plymouth. <b>Approved by Excom in Oct.</b>
ai.	A	E			2017-037	Corcoran L-80 Lift Station MCES Project 808520, Corcoran. <b>Approved by Excom in Oct.</b>
aj.					2017-038	Bass Lake Estates, Corcoran.
ak.					2017-039	Rush Creek Apartments, Maple Grove.
al.					2017-040	Capitol Beverage, Rogers.
am.		E	R		2017-041W	Maghrak Residence Wetland Delineation, Corcoran.
an.			R		2017-042	Cavanaugh Concept Plan Preliminary Review, Medina.
ao.			R		2017-043W	Kissner Drainage Repair, Corcoran.
ap.					2017-044	Reserve at Medina 2 <sup>nd</sup> Addition, Medina.
aq.					2017-045	Fish Lake Estates, Maple Grove.
ar.					2017-046W	Wessell Property Wetland Delineation, Corcoran.
as.					2017-047W	Newman Property Wetland Delineation, Corcoran.
at.						
au.						

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

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

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### Technical Advisory Committee Public Hearing Regular Meeting Minutes - September 13, 2017

I. A meeting of the **Technical Advisory Committee (TAC)** for the Elm Creek Watershed Management Commission was convened at 10:00 a.m., Wednesday, September 13, 2017, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN.

In attendance were: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Mark Lahtinen, Maple Grove; Kaci Fisher, Hakanson-Anderson, Medina; Andrew Simmons, Rogers; James Kujawa and Jason Swenson, Hennepin County Dept. of Environment and Energy (HCEE); Brian Vlach, Three Rivers Park District (TRPD); Diane Spector and Jeff Strom, Wenck Associates; and Judie Anderson, JASS.

Not represented: Dayton and Plymouth.

Also present: Sharon Meister, Corcoran; Doug Baines, Dayton; Elizabeth Weir, Medina; Catherine Cesnik, Plymouth; and Steve Christopher, Board of Water and Soil Resources (BWSR).

II. The focus of this meeting is the **Rush Creek Headwaters Subwatershed Assessment project**. The members reviewed water quality and map book data, discussed problems and issues, reviewed and discussed tools and models strategies, and discussed public participation and input process.

#### A. Background.

The Elm Creek Watershedwide TMDL, approved in 2016, cited Rush Creek as impaired for low dissolved oxygen (DO), *E. coli*, and fish and invertebrate IBI (Index of Biotic integrity). There are two lakes within the Rush Creek subwatershed, Henry and Jubert. The former was found to be impaired for nutrients; the latter, while not assessed, is likely impaired for nutrients as well. The most probable causes for the Stressor ID are altered hydrology, excess sediment, excess phosphorus (invertebrates), and low DO (fish).

#### B. Study Area.

The study area includes a portion of Rush Creek, which the TMDL refers to as Rush Creek but the Third Generation Plan refers to as North Fork Rush Creek. Various maps depicted the location of the study area, including lakes, streams, and ditches; land cover; and land use.

#### C. Historic Water Quality Data (at monitoring site RC2.1)

Parameter	Status	Critical Flow Condition	Critical Months
Dissolved Oxygen (DO)	Impaired 60% exceedance	All conditions	June-Sept
Total Phosphorus (TP)	Impaired 92% exceedance	All conditions	All (June-Sept)
Ortho-phosphorus			
Nitrogen	Not impaired – generally low	N/A	N/A
<i>E. Coli</i>	Impaired 39% exceedance	All conditions	June-Oct
Total Suspended Solids (TSS)	Not impaired 11% exceedance	High (runoff) Low (algae)	May-Oct



**D. 2017 Longitudinal Surveys**

<u>From RC7.2 to RC4.2</u>	<u>From RC4.2 to RC2.1</u>	<u>At TRIBO.6</u>
DO increases TSS and TP increased (storms) <i>E. Coli</i> was similar	DO decreases TSS decreases Particulate P decreases Dissolved P increases <i>E. Coli</i> was similar	DO moderate TSS (storms) is high TP is high <i>E. coli</i> is high
RC7.2 is located on Rush Creek at Lake Independence Regional Trail (CR19) RC4.2–Rush Creek at Oakdale Drive	RC2.1–Rush Creek at Trail Haven Rd. (long-term TRPD mon. site) RC0.0–Rush Creek at 10th Ave. N.	TRIBO.6–unnamed tributary to Rush Creek at 97th Ave. N. (CR30)

**E. Additional information.** Included in Wenck's presentation were the following:

1. Map showing the large wetland located between RC4.2 and RC2.1.
2. RUSLE. The Revised Universal Soil Loss Equation which provides annualized soil loss from rill and inter-rill erosion. Estimates amount of soil loss and sediment delivery off the land.
3. Map showing probable tile drained areas.
4. Map showing a preliminary analysis of the upper study area field and subsurface sources, in-line wetlands settling particulates and consuming DO, and movement from particulate to dissolved issues.

**F. Tools and Strategies** described included:

1. ACPF – Agricultural Conservation Planning Framework. Model inputs are lidar, soils, land use. Practices could include grassed waterways, contour buffer strips, nutrient removal wetlands, water and sediment control basins, tile drain water level control structures, and stream buffers.
2. PTMAp – prioritize, target, measure. Model inputs are lidar, soils, land use, precipitation. Practices that could be considered include storage, filtration, biofiltration, infiltration, protection and source reduction.
3. Available data will be gleaned from the 2007 Elm Creek Channel Study and the 1999-2000 Dindorf-Meisbauer walking assessment. More information will be gathered by field inspection and possibly the use of a drone.

**G. What we don't know.**

1. Stream condition details.
2. Manure management. *Go back to model manure ordinance.*
3. Livestock management.
4. In-field management.
5. Drainage management.
6. Septic system locations.
7. Names of key landowners. *Create fact sheet to send to landowners to begin conversations. What other agencies should we invite to help promote our issues?*

**H. Next steps.**

1. Apply tools.
2. Gather local information.
3. Resident participation, public input.

Four TAC/Commission meetings, two small group meetings, and one public meeting are anticipated. *Create mapbooks for TAC members.*

The meeting of the Elm Creek Watershed Management Commission Technical Advisory Committee was adjourned at 11:32a.m.

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**III.** A **regular meeting** of the Elm Creek Watershed Management Commission was called to order at 11:41 a.m., Wednesday, September 13, 2017, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN, by Chairman Doug Baines.

Present were: Bill Walraven, Champlin; Sharon Meister, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Fred Moore, Plymouth; Kevin Jullie, Rogers; James Kujawa and Jason Swenson, Hennepin County Dept. of Environment and Energy (HCEE); Brian Vlach, Three Rivers Park District (TRPD); Jeff Weiss, Barr Engineering; and Judie Anderson, JASS.

Also present: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Mark Lahtinen, Maple Grove; Catherine Cesnik, Plymouth; and Andrew Simmons, Rogers.

**A.** Motion by Walraven, second by Moore to approve the **revised agenda**.\* *Motion carried unanimously.*

**B.** Motion by Weir, second by Walraven to approve the **minutes**\* of the August 9, 2017 regular meeting. *Motion carried unanimously.*

**C.** Motion by Walraven, second by Jullie to approve the September **Treasurer's Report and Claims**\* totaling \$16,691.83, including a check in the amount of \$1,000.00 to the Freshwater Society for educational sponsorships. *Motion carried unanimously.*

**IV. Open Forum.**

Catherine Cesnik, the new Alternate Commissioner from the City of Plymouth, introduced herself to the members.

*[The regular meeting was suspended at 11:45 a.m.]*

**V. Public Hearing.**

On April 12, 2017, the Elm Creek Watershed Management Commission, upon recommendation of the Technical Advisory Committee, approved a motion to move forward with a Minor Plan Amendment (MPA) to its Third Generation Watershed Management Plan to revise the Capital Improvement Program (CIP). The MPA would revise Table 4.5 of the Commission's Third Generation Plan CIP in order to add two projects, remove one project, and shift funding on four existing projects to future years. These new projects and project updates were submitted by the member cities. Following a public meeting conducted by the Commission on May 10, 2017, the Commission adopted Resolution 2017-01 Adopting a Minor Plan Amendment.

Doug Baines, representative from Dayton and Commission chair, was present at a meeting of a Committee of the Hennepin County Board on June 20, 2017, to answer questions regarding the amendment. The County Board approved the Minor Plan Amendment and adopted a 2017 maximum levy of \$437,500 for the Elm Creek Commission on June 27, 2017.

The projects for which the levy will be certified are:

Project 2017-01	Fox Creek Streambank Stabilization Project Phase 3	\$112,500
Project 2017-03	Mill Pond Fishery and Habitat Restoration	\$250,000
Project 2017-04	Rain Garden at Independence Avenue	\$ 75,000

The Commission called for a public hearing to be held on September 13, 2017 to consider the three

projects. Member cities and the County have been notified and notice has been duly published. The purpose of the public hearing is to present the proposed projects and proposed financing and to take comment from the member cities and the public.

*[The public hearing was opened at 11:47 a.m.]*

No comments were received from the reviewing agencies. No comments were received from the member cities.

*[The public hearing was closed at 11:49 a.m.]*

A brief discussion was conducted by the Commissioners.

Motion by Weir, second by Walraven to adopt Resolution 2017-02 Ordering the 2017 Improvement Projects ... and Designating Commission Cost-Share Funding.\* *Motion carried unanimously.*

Motion by Moore, second by Weir to approve the Cooperative Agreements with the cities of Champlin and Rogers contingent upon review by their respective attorneys. *Motion carried unanimously.*

*[The regular meeting resumed at 11:51 a.m.]*

## **VI. Action Items.**

**A. Project Review 2017-004 Cartway Trail Wetland Replacement Plan, Champlin.\*** A complete application was received on June 8, 2017 and noticed per Wetland Conservation Act (WCA) requirements. The original application has been revised to conform to the WCA Technical Evaluation Panel (TEP) recommendations to further minimize impacts and provide a minimum of 1:1 replacement ratio within the Elm Creek Watershed. Impacts have been reduced from 2,172 SF to 375 SF and 2:1 mitigation will be rectified by the purchase of bank credits in Minnetrista. Updated plans also reduced floodplain impacts to 20 CY which will be replaced by a rain garden/bio-filter basin being constructed below the floodplain elevation on the north side of the creek. Motion by Moore, second by Walraven to approve the TEP's recommendation pending BWSR's approval of the purchase of the bank credits or receipt of a comparable escrow. *Motion carried unanimously.* Tuominen noted that the City will pursue the purchase agreement and will not proceed with the work until confirmation is received.

**B. Project Review 2017-016 Territorial Woods, Maple Grove.\*** This is a 21-acre site located at 13763 and 14033 Territorial Road. The north property line is Territorial Road and the south line is CR 81. The Elm Creek Park Reserve is across Territorial Road from this project. The developer is proposing to construct a 98-unit apartment building and 69 townhome units. Staff review is for compliance to the Commission's rules D, E and I. The deadline for a decision on this project was extended to September 14, 2017 by the applicant. Staff has reviewed revised plans and recommends approval contingent upon receipt of an O & M agreement meeting the Commission's rules. Motion by Weir, second by Walraven to approve Staff findings in their report dated August 25, 2017. *Motion carried unanimously.*

**C. Project Review 2017-019 Medina Senior Community, Medina.\*** The applicant proposes to construct a senior living facility and medical facility on a 10.8-acre parcel located between Mohawk Drive and Willow Drive, with access from Chippewa Road. The project proposes to disturb 6.0 acres and adds 3.4 acres of new impervious surfaces. Staff is reviewing the site for compliance with rules D, E, G, and I. Updated plans were submitted August 28 in response to previous site reviews and comments from the wetland TEP meeting that resulted in reduced wetland impacts. In their findings dated September 6, 2017

RULE D - STORMWATER MANAGEMENT  
RULE G - WETLAND ALTERATION

RULE E - EROSION AND SEDIMENT CONTROL  
RULE H - BRIDGE AND CULVERT CROSSINGS

RULE F - FLOODPLAIN ALTERATION  
RULE I - BUFFERS

Staff recommends the Commission approve the site subject to six conditions.

Motion by Weir, second by Walraven to approve Staff's recommendations. *Motion carried unanimously.*

**D. Project Review 2017-034 Plymouth Memory Care, Plymouth.\*** This project is a new senior living facility located on a 4.7 acre parcel located northwest of CR 101 and Medina Road. The project will replace one single-family home located on the site. Stormwater, grading and erosion control plans were submitted for review. Motion by Moore, second by Weir to approve Staff's findings dated August 30, 2017, conditioned upon identifying the party responsible for the O&M Plan. *Motion carried unanimously.*

## **VII. New Business.**

## **VIII. Grant Opportunities and Updates.**

**A. Internal Phosphorus Loading Control in Fish Lake project.** The contract agreement to award the bid to HAB Aquatic Solutions has been signed by the Elm Creek Commission and Three Rivers Park District. HAB will be receiving a letter awarding the bid with the contract agreement this week. After they return the contract agreement with signature, they will receive a notice to proceed with the project.

**1.** HAB Aquatic Solutions has already prepared transects for the alum application on the lake and the Alum Treatment is still planned to begin on September 18. It is estimated that the treatment will continue throughout the week and be completed on September 22. The treatment application will be weather dependent.

**2.** The public access will be closed the entire week for the alum treatment. There are no restrictions with water contact recreational activities (boating, swimming, tubing, water skiing, and fishing). However, it is recommended that boating activity near the treatment barge occur at a minimum.

**3.** Three Rivers Park District is doing a study in collaboration with the University of Wisconsin to determine the binding capacity of phosphorus due to the alum application. The objectives of the project are to:

**a.** Determine the Al:P binding ratio of newly-formed  $\text{Al}(\text{OH})_3$  that has been exposed to peak hypolimnetic P using sediment traps deployed shortly before Al application,

**b.** Examine the extent of hypolimnetic P removal as a result of the Al application, and

**c.** Monitor vertical variations in total Al, mobile P, and Al-bound P in the sediment column and rates of P release from sediment several months after treatment.

The results from this research study will provide beneficial information that may change the way we do alum treatments in the future for other lakes. In addition, the study will estimate the alum binding capacity of phosphorus attributed to the alum treatment, and will assist with determination of alum dosage required for the second alum treatment on Fish Lake scheduled in 2019.

**B. Rush Creek Headwaters Subwatershed Assessment project.** See TAC minutes, beginning on page 1.

**C.** Kujawa announced that the **Hennepin County Good Steward Grant** application period is open from September 19 to November 3, 2017. Good steward grants are primarily for smaller projects that improve water quality, enhance natural areas and promote environmental stewardship in the community. A typical grant amount is \$5,000 to \$15,000, with a maximum amount of \$25,000. Landowners, including individuals, non-governmental organizations, local government agencies, non-profit organizations and businesses in Hennepin County, are eligible to apply. A 25% match is required.

**IX. Education.**

**A. Watershed PREP.** The educators are teaching and scheduling classes. So far, ten schools have been scheduled. The educators will be sending letters to the cities soliciting their support of the program in the schools within their boundaries.

**B. Native Plant Sales/Pledge to Plant.** The pledge to plant campaign has received 541 pledges to date. Area pledged to plant in natives is 37.7 acres. WMWA members discussed adding to the metrics native buffer areas planted as wetland buffers as part of development projects.

**C.** The next **WMWA meeting** is scheduled for 8:30 a.m., Tuesday, October 10, 2017, at Plymouth City Hall. Commissioners are encouraged to attend.

**X. Communications.****XI. Other Business.**

**A.** The following **projects** are discussed in the September Staff Report.\* ("W" denotes wetland project.)

1. 2013-046 Woods of Medina, Medina.
2. 2014-015 Rogers Drive Extension, Rogers.
3. 2015-004 Kinghorn Outlet A, Rogers.
4. 2015-006 Veit Building and Parking Lot Addition, Rogers.
5. 2015-020 Strehler Estates, Corcoran.
6. 2015-030 Kiddiegarten Child Care Center, Maple Grove.
7. 2016-002 The Markets at Rush Creek, Maple Grove.
8. 2016-004 Park Place Storage Site Plans, Corcoran.
9. 2016-005W Ravinia Wetland Bank, Corcoran.
10. 2016-014 Balsam Apartments, Dayton.
11. 2016-018 Cambridge Park, Maple Grove.
12. 2016-019 Just for Kix, Medina.
13. 2016-021 Diamond View Estates, Dayton.
14. 2016-022 AutoZone, Maple Grove.
15. 2016-026 Faithbrook Church, Dayton.
16. 2016-038 AutoMotorPlex, Medina.
17. 2016-039 Fields at Meadow Ridge, Plymouth.
18. 2016-040 Kinghorn 4th Addition, Rogers.
19. 2016-047 Hy-Vee Maple Grove #1, Maple Grove.
20. 2016-052 The Woods at Rush Creek, Maple Grove.\*
21. 2017-002 RDO Site Plan, Dayton.
22. 2017-004W Cartway Trail, Champlin.\*
23. 2017-008 TH169 Reconstruction, Champlin.
24. 2017-013W 20417 Larkin Road, Corcoran.
25. 2017-014 Laurel Creek, Rogers.
26. 2017-016 Territorial Woods, Maple Grove.\*
27. 2017-017 Mary Queen of Peace Catholic Church, Rogers
28. 2017-019 Medina Senior Living Community, Medina.\*
29. 2017-020 Northwest Greenway Trail Phase III, Plymouth.
30. 2017-021 Hindu Society of MN Staff Housing, Maple Grove.
31. 2018-022 CSAH81 and CSAH101 and 13 Intersection Improvements, Rogers.
32. 2017-023 Midwest Steel Supply, Rogers.
33. 2017-024 Lil Explorers Daycare, Rogers.\*
34. 2017-025 Grading by Ground Storage, Rogers.

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35. 2017-027W Mill Pond Restoration, Champlin.
36. 2017-028W Fehn Meadows Wetland Bank, Corcoran.\*
37. 2017-029 Brayburn Trails, Dayton.\*
38. 2017-030 Brindle Path, Medina.
39. 2017-031 Bass Lake Crossing, Corcoran.
40. 2017-032W Rachel Development Wetland Delineation, Corcoran.\*
41. 2017-033W Jeff Schalo Wetland Exemption, Corcoran.
42. 2017-034 Plymouth Memory Care, Plymouth.\*
43. 2017-035 Weston Woods of Medina PUD.
44. 2017-036 Enclave at Elm Creek, Plymouth.
45. 2017-037 L-80 Lift Station MCEs, Corcoran.
46. 2017-038 Bass Lake Estates, Corcoran.

**B. Adjournment.** There being no further business, motion by Weir, second by Walraven to adjourn. *Motion carried unanimously.* The meeting was adjourned at 12:59 p.m.

Respectfully submitted,



Judie A. Anderson, Recording Secretary

JAA:tim

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# Elm Creek Watershed Management Commission 2017 Treasurer's Report

		2017 Budget	Aug 2017	Sept 2017	Oct 2017	2017 Budget YTD
<b>EXPENSES</b>						
Administrative		90,000	6,960.46	6,107.38	5,581.07	65,907.06
Watershed-wide TMDL 2016						
Grant Writing		5,000				0.00
Website		6,000	174.35	104.60	45.00	1,217.65
Legal		2,000				0.00
Audit		5,000	4,500.00			4,500.00
Insurance		3,800				2,842.00
Miscellaneous/Contingency		2,000				0.00
Project Reviews	HCEE	98,000	22,878.39			47,402.41
Project Reviews	Consult	15,000		2,650.00	550.00	5,609.40
Project Reviews	Admin	11,000	1,173.96	991.69	995.79	10,507.29
WCA-Technical	HCEE	12,000	3,402.84			5,306.62
WCA	Legal	500				439.96
WCA	Admin	2,000	199.64	137.22	94.95	1,292.22
Stream Monitoring		24,177				0.00
Extensive Stream Monitoring		7,000				0.00
DO Longitudinal Survey		500				0.00
Source Assessment		2,000				0.00
TMDL Follow-up - TRPD, Admin		10,000	305.25			610.50
Rain Gauge		220	19.41	17.27	19.26	155.64
Rain Gauge Network		100				0.00
Lakes Monitoring - CAMP		1,200				0.00
Lakes Monitoring - TRPD						
Sentinel Lakes		2,470				0.00
Additional Lake		618				0.00
Aquatic Vegetation Surveys		1,029				0.00
Wetland Monitoring (WHEP)		4,000				0.00
Education		4,000	80.67	1,004.50	2.20	3,268.93
WMWA General Activities		4,000				3,750.00
WMWA Educators/Watershed Prep		4,500				4,500.00
WMWA Special Projects		1,500				1,500.00
Rain Garden Workshops		2,000				2,294.25
Education Grants		2,000				0.00
Macroinvertebrate Monitoring-River Watch		6,000				0.00
Projects ineligible for ad valorem		50,000				0.00
Studies / Project ID / SWA		35,000	187.88	809.09	683.56	3,466.03
Plan Amendments		5,000	110.98	205.48		1,370.34
Local Plan Review		2,000				0.00
Transfer to (from) Encumbered Funds (see below)						0.00
Transfer to (from) Capital Projects (see CIP Tracking)				407.56		428.74
Transfer to (from) Cash Sureties (see below)						0.00
Transfer to (from) Grants (see below)			978.70	4,257.04	184,852.72	191,965.05
To Fund Balance						0.00
<b>TOTAL - Month</b>			<b>40,972.53</b>	<b>16,691.83</b>	<b>192,824.55</b>	<b>358,334.09</b>
<b>TOTAL Paid in 2017, incl 2016 Expenses</b>		<b>421,614.00</b>	<b>191,625.33</b>	<b>208,317.16</b>	<b>401,141.71</b>	<b>2017 Paid</b>



# Elm Creek Watershed Management Commission 2017 Treasurer's Report

		2017 Budget	Aug 2017	Sept 2017	Oct 2017	2017 Budget YTD
<b>INCOME</b>						
<i>From Fund Balance</i>						
Project Review Fee		100,000	5,274.00	10,109.50		67,043.50
Return Project Fee						(1,800.00)
Water Monitoring - TRPD Co-op Agmt		6,500				0.00
WCA Fees		8,000	150.00	300.00		5,750.00
Return WCA Fee						(2,550.00)
Reimbursement for WCA Expense			600.00			600.00
Member Dues		219,700				219,700.00
Interest/Dividends Earned		100	695.83	675.21		3,696.75
<i>Transfer to (from) Capital Projects (see CIP Tracking)</i>						255,605.67
<i>Transfer to (from) Grants (see below)</i>			-	-	-	
Misc Income						0.00
<b>Total - Month</b>			<b>6,719.83</b>	<b>11,084.71</b>	<b>0.00</b>	<b>548,045.92</b>
<b>TOTAL Funds Rec'd in 2017, incl 2016 Income</b>		<b>334,300.00</b>	<b>663,696.80</b>	<b>674,781.51</b>	<b>674,781.51</b>	<b>2017 Received</b>
<b>CASH SUMMARY</b>		<b>Balance Fwd</b>				
Checking						
4M Fund		570,930.25	1,073,001.72	1,067,394.60	874,570.05	
<b>Cash on Hand</b>			<b>1,073,001.72</b>	<b>1,067,394.60</b>	<b>874,570.05</b>	
<b>CASH SURETIES HELD</b>		<b>Balance Fwd</b>				<b>Activity 2017</b>
WCA Escrows Received		46,000.00				30,000.00
WCA Escrow Reduced		0.00				0.00
<b>Total Cash Sureties Held</b>		<b>46,000.00</b>	<b>76,000.00</b>	<b>76,000.00</b>	<b>76,000.00</b>	
<b>RESTRICTED / ENCUMBERED FUNDS</b>		<b>Balance Fwd</b>				
<i>Restricted for CIPs</i>		129,049				129,027.39
<i>Enc. Studies / Project Identification / SWA</i>		62,832				62,831.80
<i>Assigned Extensive Stream Monitoring</i>		1,000				1,000.00
<b>Total Restricted / Encumbered Funds</b>		<b>191,880</b>	<b>191,859.19</b>	<b>191,859.19</b>	<b>191,859.19</b>	
			<b>Aug 2017</b>	<b>Sept 2017</b>	<b>Oct 2017</b>	<b>2017 Budget YTD</b>
<b>GRANTS</b>						
<b>Fish Lake CWLA</b>		<b>200,000</b>				
Revenue						100,000.00
Expense			225.00	272.56	176,506.03	178,604.35
Balance			(225.00)	(272.56)	(176,506.03)	(78,604.35)
<b>Rush Creek SWA</b>		<b>50,280</b>				
Revenue						25,140.00
Expense			753.70	3,984.48	8,346.69	13,377.70
Balance			(753.70)	(3,984.48)	(8,346.69)	11,762.30
<b>TOTAL GRANTS</b>						
Revenue			-	-	-	<b>125,140.00</b>
Expense			978.70	4,257.04	184,852.72	<b>191,982.05</b>
Balance			<b>(978.70)</b>	<b>(4,257.04)</b>	<b>(184,852.72)</b>	<b>(66,842.05)</b>



## Elm Creek Watershed Management Commission 2017 Treasurer's Report

Claims Presented		General Ledger Account No	August	September	October	TOTAL
Campbell Knutson - Legal		521000				0.00
Connexus - Rain Gauge		551100			19.26	19.26
Barr Engineering - Proj Rev Consultant		578050			550.00	550.00
HAB Aquatic Solutions - Fish Lake Alum Trmt		584001			176,379.00	176,379.00
Wenck						8,019.82
Grant - Rush Creek SWA		584002			8,019.82	
JASS						7,856.47
Administration		511000			5,303.57	
TAC Support		511000			277.50	
Annual Report		511000				
Website		581000			45.00	
Project Reviews		578100			995.79	
WCA		579000			94.95	
Plan Amendment		541500				
Education		590000			2.20	
Elm Creek TMDL		580800				
CIPs General		563001			683.56	
CIPs Medina Tower Drive		563002				
CIPs Champlin Mill Pond Dam		563003				
CIPs Plymouth EC Restoration		563004				
CIPs Fish Lake Alum Trmt Ph 1		563009				
Grant Opportunities		511000				
Grant - Fish Lake CWLA		584001			127.03	
Grant - Rush Creek SWA		584002			326.87	
<b>TOTAL CLAIMS</b>						<b>192,824.55</b>

**Elm Creek Watershed Management Commission  
2017 Treasurer's Report - Capital Improvement Project Tracking**

Item 4a1)

CIPs		Amount	%age	TOTAL 2014	TOTAL 2015	TOTAL 2016	JAN 2017	FEB 2017	MAR 2017	APR 2017	MAY 2017	JUN 2017	JUL 2017	AUG 2017	SEP 2017	OCT 2017	TOTAL 2017	TOTAL ALL YEARS
	Ad Valorem 2014 - Medina Tower Drive	68,750	52.380															
	Revenue			-	68,916.44	(37.13)							(30.00)				(30.00)	68,849.31
	Expense			1,989.80	-	-											-	1,989.80
	Balance			(1,989.80)	68,916.44	(37.13)							(30.00)				(30.00)	66,859.51
	Ad Valorem 2014 - Champlin Mill Pond Dam	62,500	47.620															
	Revenue			-	62,653.69	(33.75)							(27.26)				(27.26)	62,592.68
	Expense			1,631.81	-	-											-	1,631.81
	Balance			(1,631.81)	62,653.69	(33.75)							(27.26)				(27.26)	60,960.87
	Ad Valorem 2015 - Plymouth Elm Creek Restoration	250,000.00	100.000															
	Revenue				-	249,866.05							1,343.22				1,343.22	251,209.27
	Expense				2,606.17	280.99											-	2,887.16
	First Half Payment					122,112.84											-	122,112.84
	Second Half Partial Payment					123,163.52											-	123,163.52
	Balance				(2,606.17)	4,308.70							1,343.22				1,343.22	3,045.75
	Ad Valorem 2016 - Fox Creek Phase 2 Bank Stabiliz	80,312.00	16.296															
	Revenue				-	-							41,443.93				41,443.93	41,443.93
	Expense					106.32											-	106.32
	Balance				-	(106.32)	-	-	-	-	-	-	41,443.93	-	-	-	41,443.93	41,337.61
	Ad Valorem 2016 - Miss Rvr Shore Repair/Stabilizat	75,000.00	15.219															
	Revenue				-	-							38,704.92				38,704.92	38,704.92
	Expense					106.32											-	106.32
	Balance				-	(106.32)	-	-	-	-	-	-	38,704.92	-	-	-	38,704.92	38,598.60
	Ad Valorem 2016 - EC Dam at Mill Pond	187,500.00	38.047															
	Revenue				-	-							96,761.02				96,761.02	96,761.02
	Expense				-	106.32											-	106.32
	Balance				-	(106.32)	-	-	-	-	-	-	96,761.02	-	-	-	96,761.02	96,654.70
	Ad Valorem 2016 - Rush Creek Main Stem Restorat	75,000.00	15.219															
	Revenue				-	-							38,704.92				38,704.92	38,704.92
	Expense				-	106.32											-	106.32
	Balance				-	(106.32)	-	-	-	-	-	-	38,704.92	-	-	-	38,704.92	38,598.60
	Ad Valorem 2016 - Fish Lake Alum Trmt Phase 1	75,000.00	15.219															
	Revenue				-	-							38,704.92				38,704.92	38,704.92
	Expense				-	106.32			21.18								21.18	127.50
	Balance				-	(106.32)	-	-	(21.18)	-	-	-	38,704.92	-	-	-	38,683.74	38,577.42
	2017-01 Fox Creek Streambank Stabilization Phase	112,500.00	25.714															
	Revenue				-	-											-	-
	Expense				-	-									135.85		135.85	135.85
	Balance				-	-	-	-	-	-	-	-	-	-	(135.85)	-	(135.85)	(135.85)
	2017-03 Mill Pond Fishery & Habitat Restoration	250,000.00	57.143															
	Revenue				-	-											-	-
	Expense				-	-									135.86		135.86	135.86
	Balance				-	-	-	-	-	-	-	-	-	-	(135.86)	-	(135.86)	(135.86)
	2017-04 Rain Garden at Independence Ave	75,000.00	17.143															
	Revenue				-	-											-	-
	Expense				-	-									135.85		135.85	135.85
	Balance				-	-	-	-	-	-	-	-	-	-	(135.85)	-	(135.85)	(135.85)
	<b>TOTAL CIP</b>																	
	Revenue			-	131,570.13	249,795.17	-	-	-	-	-	-	255,605.67	-	-	-	255,605.67	636,970.97
	Expense			3,621.61	2,606.17	812.59	-	-	21.18	-	-	-	-	-	407.56	-	428.74	7,469.11
	Payments					(245,276.36)											-	(245,276.36)
	Balance			(3,621.61)	128,963.96	3,706.22	-	-	(21.18)	-	-	-	255,605.67	-	(407.56)	-	255,176.93	384,225.50



Account Number:

481113-238425

Item 4a1)

ELM CREEK WATERSHED MGMT ORG

## Monthly Statement

### Service Address

ELM CREEK RD  
DAYTON MN

### Billing Summary

Billing Date: Sep 18, 2017

Previous Balance	\$17.27
Payments - Thank You!	\$17.27
<b>Balance Forward</b>	<b>\$0.00</b>
<b>New Charges</b>	<b>\$19.26</b>

**Total Amount Due** **\$19.26**

Payment must be received on or before October 13, 2017

Total Amount Due

\$19.26

Due Date

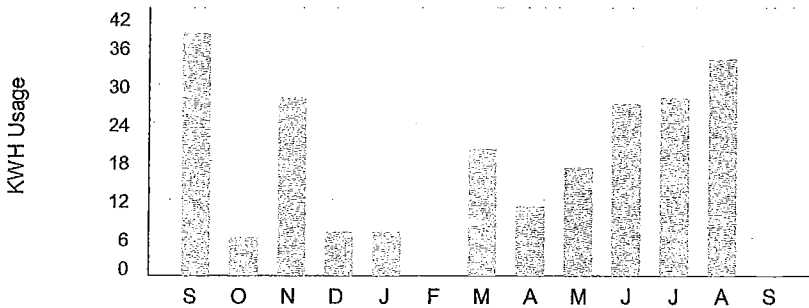
October 13, 2017

### Message Center

### Energy Comparison

Previous Months' Usage

Current Month's Usage



### How to contact us

Member Services / Moving - 763-323-2650  
Outages and Emergencies - 763-323-2660  
Hearing/Speech Impaired Call - 711 or 800-627-3529  
Email: [info@connexusenergy.com](mailto:info@connexusenergy.com)  
[www.connexusenergy.com](http://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-008283/000408 AGUZUJ S1-ET-M1-C00003



Account Number:

481113-238425

Total Amount Due

\$19.26

Payment Due By

October 13, 2017

008283 1 AB 0.400 000218/008283/000408 030 01 AGUZUJ  
ELM CREEK WATERSHED MGMT ORG  
3235 FERNBROOK LN N  
PLYMOUTH MN 55447-5325



Connexus Energy

PO Box 1808  
Minneapolis, MN 55480-1808

00001926 0004811130238425 000000 00000 000000000000 0000004



# INVOICE

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

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

September 11, 2017  
 Invoice No: 23270F55.03 - 82

<b>Total this Invoice</b>	<b>\$550.00</b>
---------------------------	-----------------

## Regarding: Development Reviews

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

- Task 164 – CSAH 81/101 Reconstruction (2017-022)
- Finalize review and make revisions to findings
  - Prepare and send conditional approval letter
  - Review additional submittal from project engineer to address conditions

## Professional Services from July 15, 2017 to August 11, 2017

Job:	JOB3	Project Review
Task:	164	CSAH 81/101 Reconstruction

## Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist III			
Weiss, Jeffrey	4.40	125.00	550.00
	4.40		550.00
<b>Subtotal Labor</b>			<b>550.00</b>
		<b>Task Subtotal</b>	<b>\$550.00</b>
		<b>Job Subtotal</b>	<b>\$550.00</b>
		<b>Total this Invoice</b>	<b>\$550.00</b>

## Outstanding Invoices

Invoice	Date	Balance
81	8/15/2017	2,650.00
<b>Total</b>		<b>2,650.00</b>

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

# Billing Backup

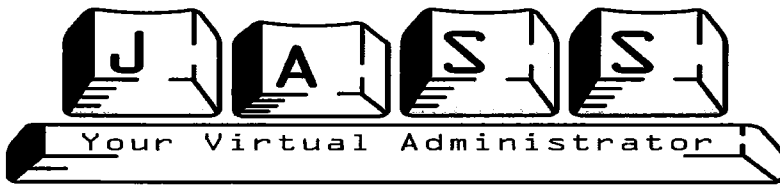
Monday, September 11, 2017

Barr Engineering Co. Invoice 82 Dated 9/11/2017 9:08:57 AM

Job:	JOB3	Project Review
Task:	164	CSAH 81/101 Reconstruction

## Labor Charges

			Hours	Rate	Amount	
Engineer / Scientist / Specialist III						
Engineer / Scientist / Specialist III						
JDW	3 - Weiss, Jeffrey	7/19/2017	1.40	125.00	175.00	
	revisions to findings and completing the approval letter					
JDW	3 - Weiss, Jeffrey	8/9/2017	3.00	125.00	375.00	
			4.40		550.00	
<b>Subtotal Labor</b>						<b>550.00</b>
					<b>Task Subtotal</b>	<b>\$550.00</b>
					<b>Job Subtotal</b>	<b>\$550.00</b>
					<b>Total this Invoice</b>	<b>\$550.00</b>
					<b>Total this Report</b>	<b>\$550.00</b>



3235 Fernbrook Lane  
Plymouth MN 55447

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

6-Oct-17

Total by  
Project Area

Administrative	8.59	55.00	472.45	
Administrative	50.48	60.00	3,028.80	
Admin - Offsite	2.25	65.00	146.25	
Office Support	5.00	200.00	1,000.00	
Storage Unit	1.00	192.23	192.23	
Data Processing/File Mgmt	0.08	55.00	4.40	
File Management	0.67	60.00	40.20	
Archiving		55.00	0.00	
Admin - Reimbursable Expense	419.24	1.00	419.24	5,303.570
Admin - TAC support		55.00	0.00	
Admin - TAC support	1.83	60.00	109.80	
Admin - TAC support offsite	2.58	65.00	167.70	
TAC Support - Reimbursable Expense		1.00	0.00	277.500
Website		55.00	0.00	
Website	0.75	60.00	45.00	
Website - Reimbursable Expense		1.00	0.00	
Web Domain, hosting		1.00	0.00	45.000
Project Reviews - Secre	0.17	55.00	9.35	
Project Reviews - Admin	12.44	60.00	746.40	
Project Reviews - Admin - File Mgmt		55.00	0.00	
Project Reviews - Reimbursable Expense	240.04	1.00	240.04	995.790
WCA - Secre		55.00	0.00	
WCA - Admin	1.17	60.00	70.20	
WCA - Reimbursable Expense	24.75	1.00	24.75	94.950
Education - Admin		60.00	0.00	
Education - Admin Offsite		65.00	0.00	
Education - Reimbursable Expense	2.20	1.00	2.20	2.200
CIPs - General - Secretarial		55.00	0.00	
CIPs - Administrative	9.40	60.00	564.00	
CIPs- Offsite Admin		65.00	0.00	
CIPs - reimbursables	119.56	1.00	119.56	683.560
Rush Creek SWA - Admin	4.68	60.00	280.80	
Rush Creek SWA - offsite		65.00	0.00	
Rush Creek SWA - reimbursable expense	46.07	1.00	46.07	326.870
Fish Lake CWLA - Admin		55.00	0.00	
Fish Lake CWLA - Admin	1.76	60.00	105.60	
Fish Lake CWLA - Reimbursables	21.43	1.00	21.43	127.030
<b>Invoice Total</b>				<b>7,856.470</b>

**Invoice**

October 5, 2017  
 Invoice No: 11706760

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



Responsive partner.  
 Exceptional outcomes.

Project Manager Diane Spector

Project B1507-0003 Rush Creek Headwaters SWA

**Professional Services Through September 30, 2017**

Phase 01 Modeling and Field Work

Modeling and Field Work

**Professional Personnel**

	Hours	Rate	Amount	
Kaczmarek, Hagen	19.00	114.00	2,166.00	
Spector, Diane	.80	185.00	148.00	
Strom, Jeffrey	15.00	137.00	2,055.00	
Totals	34.80		4,369.00	
<b>Total Labor</b>				<b>4,369.00</b>
			<b>Phase Total</b>	<b>\$4,369.00</b>

Phase 03 Meetings and Reporting

Meetings and Reporting

**Professional Personnel**

	Hours	Rate	Amount	
Kaczmarek, Hagen	3.50	114.00	399.00	
Spector, Diane	14.30	185.00	2,645.50	
Strom, Jeffrey	4.00	137.00	548.00	
Totals	21.80		3,592.50	
<b>Total Labor</b>				<b>3,592.50</b>

**Reimbursable Expenses**

Mileage - Reimbursable	58.32		
<b>Total Reimbursables</b>	<b>58.32</b>	<b>58.32</b>	

**Phase Total \$3,650.82**

**Total Invoice Amount \$8,019.82**

	Current	Prior	Total
<b>Billing Summary</b>	<b>8,019.82</b>	<b>4,582.10</b>	<b>12,601.92</b>

# Technical Memo



Item 4a1)

Responsive partner.  
Exceptional outcomes.

**To:** Elm Creek WMO Commissioners  
**From:** Diane Spector, Wenck Associates, Inc.  
**Date:** October 10, 2017  
**Subject:** Rush Creek Headwaters SWA Status Report

This report details Rush Creek Headwaters Subwatershed Assessment project progress through September 2017. We are working toward a core team meeting the meeting the week of October 30-November 3 and a TAC meeting on November 8, 2017.

## Budget status:

Budget*	\$56,700.00
Through 8/31/17	\$4,582.10
9/1/17 – 9/30/17	\$8,019.82
Balance	\$44,098.08

\*For Wenck Associates services only, excluding JASS or Hennepin County services

## Activities September 2017:

- Completed hydroconditioning the Digital Elevation Model (DEM)
- Attended one Core Team meeting
- Facilitated one TAC meeting
- Compiled and review water quality and stream assessment data
- Compiled map books for Study Area and each subunit
- Completed RUSLE and Probable Tile Drained Areas geo-analysis

## Expected October 2017 Activities:

- Complete first draft of analysis with ACPF and PTMApp tools
- Send out "homework" for data collection by core team members
- Define management units and set up map books showing ACPF and PTMApp analysis
- Send out map books to core team for review prior to team meeting
- Prepare website content



**HAB Aquatic Solutions**

5100 Van Dorn Street, #6096  
 Lincoln, NE 68506  
 Phone: 402.430.0352  
 jholz@habaquatics.com

**INVOICE FOR SERVICES**

Three Rivers Parks District  
 Brian Vlach  
 3000 Xenium Lane North  
 Plymouth, MN 55441

DATE:  
 PROJECT NO.:  
 PERIOD COVERED:  
 INVOICE NO.:

26 September 2017  
 TRP-17-001  
 Thru 9/22/17  
 TRP-17-001  
**FINAL INVOICE**

Project Name: Fish Lake Aluminum Sulfate Application – Fish Lake Regional Park  
 PROJECT NO.: TRP-17-001  
 Contract Amount: \$176,379.00

**Task 01 - Alum Application to Fish Lake****Description**

Complete services for alum application to Fish Lake, including  
 alum, labor, taxes, and mobilization and demobilization.

**Lump Sum Amount****Current Due**

\$	176,379.00	\$	176,379.00
<b>Task 01 - Alum Application to Fish Lake</b>		<b>\$</b>	<b>176,379.00</b>

<b>TOTAL DUE CURRENT INVOICE:</b>	<b>\$</b>	<b>176,379.00</b>
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CONTRACT AMOUNT:	\$	176,379.00
PREVIOUS BILLING:	\$	-
CURRENT INVOICE:	\$	176,379.00
TOTAL INV'D. TO DATE:	\$	176,379.00
CONTRACT REMAINING:	\$	-

**Make all checks payable to:**  
 HAB Aquatic Solutions  
 5100 Van Dorn Street, #6096  
 Lincoln, NE 68506

# elm creek

## Watershed Management Commission

ADMINISTRATIVE OFFICE  
3235 Fernbrook Lane  
Plymouth, MN 55447  
PH: 763.553.1144  
FAX: 763.553.9326  
email: judie@jass.biz  
www.elmcreekwatershed.org

TECHNICAL OFFICE  
Hennepin County  
Environment and Energy Dept  
701 Fourth Ave S Suite 700  
Minneapolis, MN 55415-1600  
PH: 612.596.1171 | FAX: 612.348.8532  
email: Ali.Durgunoglu@hennepin.us

### STAFF REPORT

November 1, 2017

**Note: October updates appear in *black italics*, November updates appear in *red italics*.**

**2013-046 Woods of Medina, Medina.** This is two parcels totaling 9.5 acres located east of CR 116 and south of Hackamore Road. The site is proposed to be developed into 16 single-family residential lots. On January 13, 2015, the Commission approved this project with two conditions. Although this project has not been constructed, it is still active with the City of Medina and remains approved by the Commission until it becomes inactive with the City.

**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 meet the requirements of the Commission with the exception of the nutrient control. Due to limited options to treat the nutrient loads on the east 1.7 acre portion of Rogers Drive, 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.

**2015-004 Kinghorn Outlot A, Rogers.** This is a 31 acre site located between the Clam and Fed Ex sites in Rogers on the west side of Brockton Road and I-94. The proposed site will have two warehouse buildings, 275,000 and 26,000 SF in size, with associated parking and loading facilities. The Commission standards require review of stormwater management, grading and erosion controls and buffers. In June 2015 the Commission approved this project with three conditions. Revisions have yet to meet the Commission's approval conditions. This project was extended by the City of Rogers earlier this year. It will remain active on the Staff Report.

**2016-002 The Markets at Rush Creek, Maple Grove.** This is a proposal to develop 40 acres of a 123-acre planned unit development located in the southwest quadrant of the intersection of CSAH 101 and CSAH 10. County Ditch 16 (Maple Creek) runs along the south property line on this project. The 40-acre project area includes a Hy-Vee grocery store (16.8 acres), a Hy-Vee gas station (2.5 acres) and 11 outlots (18.76 acres). Right-of-way accounts for 2.3 acres. The remaining acreage (83 acres) consists of 5 outlots and right-of-way. The additional outlot areas are not part of the stormwater review for this project but will be reviewed for compliance with the Commission's buffer and floodplain requirements. In May 2016 the Commission granted Staff authority to administratively approve the project and report any updates. This project has been placed on hold by Hy-Vee. As long as it remains active with the City, the Commission's approval with conditions remains in place. A temporary pipe to drain excess water on the west side of CSAH 101 will be installed by the City of Maple Grove through this site. The permanent pipe was installed under CSAH 101 at the time the road was constructed in 2007, but it was bulk headed on both ends of the ROW. This is being completed because a new development in the northwest corner of this intersection is being considered by the City. (*See project 2017-039.*)

**2016-004 Park Place Storage Site Plans, Corcoran.** The applicant is developing a 22-acre site in the southwest portion of the city into a multi-unit storage facility with associated access roads, utilities, and stormwater features. This is an addition to the existing storage facility located west of the proposed project. New wetland permit revisions were approved by the Commission at their July 2016 meeting. New site plan information was received and approved by the Commission in

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October 2016. All approval contingencies have been met with the exception of wetland banking withdrawals for 0.24 acres from bank account #15560. Staff gave the applicant 45 days (until November 17, 2017) to secure the additional 0.24 acre credits. If this does not occur, the Commission will pursue utilizing the wetland replacement plan escrow it holds for this project to purchase the credits necessary. *The applicant has requested some additional time to secure these credits due to a specific bank site expected to be certified by BWSR in the next 60 days. Staff approved the request.*

**2016-005W Ravinia Wetland Replacement Plan, Corcoran.** In February 2016, Lennar Corporation submitted a Wetland Banking Concept Plan for Phase II of the Ravinia Development. This plan was withdrawn in favor of an onsite wetland replacement plan. At their December 2016 meeting the Commission approved Staff's findings and recommendations dated January 10, 2017. Final wetland impacts will be 1.22 acres. Wetland credits created on site will be 4.01 acres. Excess credits of 0.11 acres are proposed to be used on Lennar's Laurel Creek development in Rogers (2017-014). All contingency items that were part of Commission's approval have been met. Construction on the site began last spring. Barr Engineering was contacted by the Commission to provide monitoring to ensure the replacement meets the performance standards of the approved plans.

**2016-040 Kinghorn 4th Addition, Rogers.** This is a 13.7-acre parcel located in the northwest corner of the intersection of Brockton Lane and Rogers Drive. An industrial warehouse with 8.8 acres of new impervious area is proposed for the site. The plan includes the use of a NURP pond and a biofiltration basin to meet Commission requirements for rates, water quality and abstraction. The adjacent site is likely to be developed in the near future and some of the stormwater features were oversized to accommodate future development. In November 2016 the Commission approved the project with the following conditions: 1) approval of only this phase; future phases will need additional review and approval; 2) final modifications to the hydrologic modeling; 3) additional details are provided for a proposed water re-use system; 4) an O&M Plan for the pond and biofiltration basin is completed and recorded on the final plat; 5) modification of the storm sewer system to maximize the area draining to the NURP pond; and 6) receipt and review of wetland-related documentation if wetlands are present. Condition #1 required no action, so has been met. Condition #2 has been met for the current design; however, any future modifications to the design will require additional review. Conditions #3-6 remain outstanding and are expected to be addressed during final design.

**2016-047 Hy-Vee North Maple Grove.** The applicant is proposing to disturb 13 acres of a 20.4-acre site located at the northeast corner of Maple Grove Parkway and 99th Avenue for the purpose of constructing a grocery store, fuel station, convenience store and parking facilities. The applicant's engineer was present at the November meeting to request interpretation from the Commission on their 25' average and 10' minimum standard for a buffer when a retaining wall is used to minimize wetland impacts. The Commission felt there had to be some type of mitigating compensation for such a scenario. A revised plan was submitted on December 1, 2016. Staff sent preliminary review comments and requested revisions on December 14. In their findings dated January 10, 2017, Staff recommended approval of this project subject to 1) receipt, approval, and recordation of an Operations and Maintenance Plan for the pond and the iron-enhanced filtration system, 2) revisions for items relating to buffer requirements and erosion and sediment control as enumerated in the findings, and 3) receipt of a signed and dated final plan set. The Commission approved Staff's recommendations at their January 11, 2017 meeting with the additional requirement that the Commission receive and comment on a WCA impact notice. No new information has been received to date.

**2017-002 RDO Dayton Site Plan.** This is a commercial development proposal on a 25.6± acre plot located between I94 and Holly Lane. The project will develop the south 16 acres, to create about 7.6 acres of impervious cover. This project was approved with conditions by the Commission at their March 8, 2017 meeting. The City approved the PUD in May. The applicant has decided not to begin construction until spring 2018 and requested an extension to December 31, 2017, for the project's approval conditions set by the Commission at their March meeting.

**2017-004 Cartway Trail Wetland Replacement Plan, Champlin.** A complete application was received June 8, 2017 and noticed per Wetland Conservation Act (WCA) requirements. The original application has been revised to conform to the WCA Technical Evaluation Panel (TEP) recommendations to further minimize impacts and provide a minimum of 1:1

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replacement ratio within the Elm Creek Watershed. Impacts have been reduced from 2,172 SF to 375 SF and 2:1 mitigation will be rectified by the purchase of bank credits in Minnetrista. Updated plans also reduced floodplain impacts to 20 CY which will be replaced by a rain garden/bio-filter basin being constructed below the floodplain elevation on the north side of the creek. *The Commission approved this project at their September 2017 meeting. A \$1,500 escrow for the replacement wetland credits has been received. This item will remain active until the wetland replacement credits are secured. The wetland replacement credits were secured in October. The escrow will be returned and the project removed from the report.*

**2017-013W 20417 Larkin Road, Corcoran.** Staff was contacted by the DNR Conservation Officer about an unauthorized excavation in a Public Waters Inventory stream and ditching from the stream into a WCA wetland within the subject property. Staff and the DNR staff inspected the site on April 26, 2017, and confirmed the violation. The CO issued Resource Protection Notices for PWI and WCA violations to the property owner and the renter who performed the excavation. Staff also informed the city administrator. A Restoration Order was issued to the property owner by the DNR. The deadline for submittal of a replacement plan, exemption or no-loss application is July 15, 2017, or the site must be restored per the RO by that date. The landowner requested an extension to the deadline. It was granted to comply with the same deadline issued by the DNR for their RO, September 30, 2017. *Staff will follow up on this restoration order and update the Commission at their October meeting.*

*Staff inspected the site October 25th and determined the following:*

- 1. Recommend extending this restoration order two additional weeks so the landowner can complete the removal of spoil piles placed in the wetland areas. The extension is recommended to give the landowner time to complete this task without damaging the crops. (soybeans had just been harvested on the date of the TEP)*
- 2. Any additional extension to this restoration order must be done in writing and approved by the LGU and CO prior to November 8, 2017.*
- 3. The ditch between the DNR watercourse and the LGU wetland has been re-filled adequately to restore the original water elevations in the ditch and the LGU jurisdictional wetland south of it.*
- 4. All other conditions of the original restoration order must be adhered to, including reseeding any disturbed areas outside of cropland and placement of all spoil materials outside of any wetland areas.*
- 5. An inspection will be conducted by the LGU after November 8, 2017 to determine if all the conditions of the restoration order were met.*

**2017-019 Medina Senior Community, Medina.** The applicant proposes to construct a senior living facility and medical facility on a 10.8-acre parcel located between Mohawk Drive and Willow Drive, with access from Chippewa Road. The project proposes to disturb 6.0 acres and adds 3.4 acres of new impervious surfaces. Staff is reviewing the site for compliance with rules D, E, G, and I. Updated plans were submitted on August 28. The revised plans were in response to previous site reviews and comments from a wetland TEP meeting that resulted in reduced wetland impacts. Staff has reviewed the revised plans and will recommend the Commission approve the site subject to several conditions at their September meeting. *This item was approved at the Commission's September 2017 meeting subject to conditions. To date, the applicant has not provided the requested information to satisfy the conditions of approval. The applicant has provided revised plans for Staff review and requested an extension to the deadline, which has been granted by Staff, until November 23, 2017.*

**2017-022 CSAH 81/101/13 Intersection Reconstruction, Rogers.\*** An application was submitted by the City of Rogers for the reconstruction of the CSAH 81 and CSAH 101&13 intersection. The project will add driving and turning lanes to improve traffic flow and safety. The project will increase the impervious area at the intersection from 7.1 acres to 9.5 acres. At the July 12, 23017 meeting, the Commission approved the project with the following conditions: 1) review and administrative approval of the model revisions to more accurately depict the project immediately after construction; and 2) review and approval of the model results and design of a planned pond to be constructed to the south in association with the Justen Circle extension project. *The engineer for the project has provided modeling and design summary and all*

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*conditions of approval have been met. (This item was approved by the Executive Committee of the Commission in October 2017.)*

**2017-023 Midwest Steel, Rogers.** This is two existing 3 acre lots in the Rogers Industrial Park located between Highway 101 and James Avenue just north of CSAH 144 (141st Avenue). The applicant is proposing to combine the lots and construct a 53,000 SF warehouse and its associated parking. Staff reviewed the project for compliance to Commission rules D and E. There is a regional stormwater pond on this parcel that was constructed to treat 69.5 acres of water from the surrounding industrial park. This regional system was approved by the Commission in 2004 as part of project 2004-042, Highway 101 corridor drainage improvement. At their June meeting the Commission approved Staff findings dated June 9, 2017, wherein Staff recommended approval with four conditions. *These conditions have been met and Staff provided final approval on September 14. This item will be removed from the report.*

**2017-024 Lil Explorers Daycare, Rogers.** This is an existing 1.2 acre lot in the WJD II Addition across from the Kohl's Department Store on S. Diamond Lake Road, just west of Highway 101. The applicant is proposing a 11,610 SF two-story daycare with its associated parking and play area facilities. A regional stormwater pond was constructed to handle this water in 2001. Staff reviewed this project and found it in compliance with the regional stormwater management system installed in 2001 and 2003 and the Commission's Erosion and Sediment Control requirements. The site plans were approved by Staff pending receipt of an engineer's signed copy of the plan set *which were received September 12, 2017. This item will be removed from the report.*

**2017-027W Mill Pond Restoration, , Champlin.** This application proposes to restore the aquatic and riparian habitat of the Upper and Lower Mill Ponds (DNR Public Waters Basin No. 061P) to improve water quality, enhance shoreland and aquatic habitat, develop a sustainable fishery, and provide public access to the lake. No Wetland Conservation Act jurisdictional impacts are occurring from this project. The drawdown of Mill Pond began in September 2017 and construction will begin in December 2017, with completion by October 2018. The Commission reviewed and approved this project for compliance to its wetland, floodplain, E&SC and buffer criteria at their August meeting contingent upon 1) DNR issuance of a permit and compliance of said permit 2) Compliance with Army Corps of Engineers regulations. 3) Staff approval of the final operation and maintenance plan on the forebay area at the upstream end of the Upper Mill Pond. 4) Staff approval of the contractor SWPPP design and 5) receipt of final plans signed and dated by an engineer. *No new information has been received.*

**2017-028W Fehn Meadows Wetland Bank, Corcoran.** The owner of this 63-acre parcel would like to pursue a potential wetland banking project during development. This site is located south of CR 117, between Trail Haven and Cain Roads. An initial wetland bank scoping document was provided to the Commission as LGU for the City of Corcoran. This will be reviewed with BWSR to determine if the site is a good candidate for the BWSR Wetland Banking Program. If BWSR and the LGU believe it is, the next phase of the process will be a Concept Banking Plan Application. The final phase would be the final Wetland Banking Plan. A TEP was held on-site on July 6, 2017. Findings were provided to the applicant and BWSR. This item will remain on the report as a placeholder until an application is received.

**2017-029 Brayburn Trails, Dayton** This is two parcels, totaling 154 acres, located south of 117th Ave N and 1/3rd of a mile east of East French Lake Road. The Excelsior Group is proposing to develop the parcels into 256 units of single family homes. The review is for conformance with the Commissions rules D, E, F, G, and I. The project proposes impacts to floodplain storage with mitigation and wetland impacts. At their August 2017 meeting the Commission approved Staff's findings dated August 2, 2017 with five conditions. *To date, Staff has not received revised plans for this project and will be following up with the applicant.*

**2017-030 Brindle Path, Medina.** This is a 40-acre site proposed for 68 single family lots. It is located just north of the Polaris Headquarters. Staff provided preliminary comments to the City. This item will remain on the report as a placeholder until an application is received.

**2017-031 Bass Lake Crossing, Corcoran.\*** This is two parcels, 48.5 total acres, located north of the intersection of CR 10

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and Larkin Road. M/I Homes is proposing to develop the two parcels into 97 single-family residential homes. As proposed, the project will require 0.3303-acre of jurisdictional wetland fill within 5 separate wetland locations. The review will be for compliance with the Commission rules D, G, and I. A notice for the wetland replacement plan was sent on August 1 requesting comments by August 31. A TEP met on August 25 and determined the WCA replacement plans meet the intent of the Commission and MN WCA requirements and recommended approval. *Updated findings, if available, will be provided to the Commission for a decision at the October meeting. At this time, final buffer areas that meet the Commission standards are the main outstanding item. Per the applicant's request of October 4, 2017, the project review deadline per MN Statute 15.99 was extended to November 8, 2017. Staff recommends approval contingent upon; 1) Wetland replacement credit purchase being completed or an escrow of \$75,000 cash or letter of credit being received. 2) Buffer monumentation meeting Commission requirements.*

**2017-035 Weston Woods, Medina.** This is an 80 acre townhome development located northeast of Chippewa Road and Mohawk Drive. Staff will provide preliminary comments to the City and this item will remain on the report as a placeholder until plans are received.

**2017-036 Enclave at Elm Creek, Plymouth.\*** This is a 73-acre parcel located on CSAH 101 and Prairie Creek Road, about 3/4 miles north of TH 55. The property will be developed into 111 residential lots and a new school site. Stormwater, grading and erosion control plans were submitted for the residential portion of the property. Only stormwater management plans for the future school site were submitted for review. *The residential portion of this development looks good. But, a large component of the stormwater management (2.1 lbs/year of phosphorus removals and 46,452 CF of abstraction) for this 73-acre area is dependent on construction of the school site on the south 1/3 portion of the property. The school site grading and stormwater management system was provided as a concept only. Staff is working with the City of Plymouth to provide assurance to the Commission that the limiting stormwater components will be handled by the City if the school site is not constructed to meet Commission standards. If available, a recommendation for a decision will be provided to the Commission at their October meeting. An alternative to meet the Commission's requirements has been proposed, but not preferred by the applicant. The applicant and city agreed to an escrow submittal in lieu of meeting the City and Commission's stormwater management requirements at this time. The escrow will be held until the applicant meets said requirements or the school site is developed. This item was approved by the Executive Committee of the Commission in October 2017. It will remain on the agenda until the stormwater management requirements are met by the school district or applicant.*

**2017-037 Corcoran L-80 Lift Station, Corcoran.\*** This is a Met Council project for sanitary sewer repairs and upgrades to a lift station in the City of Corcoran. The site plans create less than one acre of new impervious areas, but disturb 6.2 acres during construction. No wetland or floodplain impacts will occur from this project. Commission rules call for review of grading and erosion controls and wetland buffers on this site. Staff recommended the Commission approve this project contingent upon the project meeting the Commission wetland buffer requirements. *This item was approved by the Executive Committee of the Commission in October 2017. Revised plans meet the Commission's buffer requirements with the exception of the final easement recordings.*

**2017-038 Bass Lake Estates, Corcoran.** This is a proposed residential development consisting of 55 single family lots and one commercial lot on a 40-acre site. The project is located west of the intersection of Bass Lake Road (CR 10) and County Road 101. 55 villa-style homes are proposed for the residential portion of the site and a storage facility is proposed for the commercial portion of the site. The Commission will review this site for conformance to rules D, E, F, and I. There are several large items remaining for the applicant to address before Staff will make a recommendation, including the submittal of abstraction calculations and water quality calculations. *No further information has been received since the initial review of the project.*

**2017-039 Rush Creek Apartments, Maple Grove.** This project is located in the southwest quadrant of the intersection of Bass Lake Road (CSAH 10) and Troy Lane (CSAH 101). The project area is 8.2 acres in size and includes two phases of construction. Phase I is 236 apartment units on 6.0 acres located on Lot 1, Block 1, Southwest Crossroads 2nd Addition. Phase II is a future 76-unit apartment building located on 2.2 acres in Outlot C of this development. The Commission

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*will review this project for conformance to rules D, E and I. If available, Staff findings and a recommendation for decision will be provided to the Commission at their meeting.*

**2017-040 Capitol Beverage, Rogers.** This is a 76,700 SF expansion to their existing building. Stormwater management for this expansion (fully developed condition) was approved by the Commission under project 2004-005 (Thorpe Distribution). The City of Rogers requested, and staff has agreed to the use of the existing stormwater management for this expansion. This was based on prior city approvals for this site with the expectation of the project being staged as was and is being proposed. Staff will provide an administrative review and base their decision on conformance to the approved stormwater management plans and the Commission's erosion and sediment control standards.

**2017-041W Maghrak Residence 21580 Sicora Lane, Corcoran, Wetland Delineation.\*** This is a 4-acre parcel near Trail Haven Road and Oakdale Drive. Staff noticed the wetland delineation per WCA requirements on September 19th, accepting comments until October 20th. Two areas meeting wetland criteria were identified in the delineation report. Staff has reviewed the property and requested one more area of investigation on the site. No other comments have been received to date. Staff will make their determination and decision and notice it per WCA requirements after the October 20th comment period expires. *Staff approved the wetland delineation boundaries and typing and noticed the approval per WCA requirements. This item will be removed from the report.*

**2017-042 Cavanaugh Concept Plan Preliminary Review, Medina** This is a 52-acre site north of Highway 55 and east of Mohawk Drive. The City requested a preliminary review from the Commission. Because of the limited amount of information provided with this concept plan, Staff provided the applicant with the Commission standards that would be applicable to this site and information from Hennepin County Natural Resource interactive map that pertains to the natural resources on the property. No additional information is needed on this site until a project review request is submitted to the Commission. This item will be removed from the report.

**2017-043W Kissner WCA Exemption, Corcoran.** A drainage exemption was requested and granted for maintaining an existing tile and drainage swale on the Kissner property at 22105 CR 50. The exemption was noticed per WCA requirements. This item will be removed from the report.

**2017-044 Reserve at Medina 2nd Addition, Medina.\*** An erosion control review of the plans for the final buildout of this addition of the Reserve at Medina project originally approved under permit #2013-002. This addition is located southeast of Hackamore Road and Pinto Drive (CR116), immediately east of the First Addition, and will allow for the construction of 46 new single-family homes. The plans are in conformance with the previously approved project, and require small modifications to allow Staff to complete its administrative review.

**2017-045 Fish Lake Estates, Maple Grove.** This is a small subdivision located at the intersection of the Weaver Lake Road entrance ramp to east bound I94 and Fish Lake Road East. The application is considered incomplete at this time because the Commission has not received authorization from the City of Maple Grove to proceed with its review. The City has concerns with the lot layout, wetland impacts and stormwater management.

**2017-046W Wessell Property Wetland Delineation, Corcoran.** This is a wetland delineation received for the Commission's review and decision for a 155-acre site located in the NW quadrant of Hackamore Road and CSAH 116.

**2017-047W Newman Property Wetland Delineation, Corcoran.** This is a 113-acre site located just north of Mama G's on CSAH 116.

#### **FINAL RECORDINGS ARE DUE ON THE FOLLOWING PROJECTS:**

**2015-006 Veit Building and Parking Lot Addition, Rogers.** Approved on May 13, 2015, pending the SAFL-Baffle weir being covered by an easement and the appropriate operation and maintenance agreement being obtained and recorded with the property. In his August 31, 2017 email, Andrew Simmons responded that he has the O&M agreement in hand, just awaiting recordation.

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**2015-030 Kiddiegarten Child Care Center, Maple Grove.** This project was approved by the Commission at their December 9, 2015 meeting. If the City of Maple Grove 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.

**2016-018 Cambridge Park, Maple Grove.** Approved on July 13, 2016, subject to recorded preservation easements and pond maintenance provided by the City or through an approved operation and maintenance agreement recorded on the property title. Preliminary easements and operation and maintenance agreements for the ponds and preservation areas were received and approved by Commission Staff. *Proof of recording of the documents was received on October 5, 2017. This item will be removed from the report.*

**2016-022 AutoZone, Maple Grove.** At their June 8, 2016 meeting, the Commission approved Staff's findings dated June 1, 2016, with the condition of recording an approved O & M Plan within 90 days of the final plat approval. *An O&M Plan signed by the owner with proof of recordation was received on October 17, 2017. This item will be removed from the report.*

**2016-026 Faithbrook Church, Dayton.** Approved August 10, 2016, with the stipulation that an approved O&M plan be recorded with the property within 90 days following final plat approval. *Per his August 31, 2017 email, Jason Quisberg has indicated that construction is significantly complete, although some vegetation establishment remains. The City still has an escrow in place which will be held until the maintenance agreement is finalized and recorded.*

**2016-052 The Woods at Rush Creek, Maple Grove.** At their March 2017 meeting, the Commission approved Staff's findings and recommendations dated February 15, 2017. Outstanding items are the biofiltration pond, O & M plans, and recording.

**2017-014 Laurel Creek, Rogers.** At their June 14, 2017 meeting the Commission approved Staff findings dated June 13, 2017, in which they recommended approval of 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. In his August 31, 2017 email, Andrew Simmons responded that the O&M agreement is still being negotiated.*

**2017-016 Territorial Woods, Maple Grove.** This is a 21 acre site located at 13763 and 14033 Territorial Road. The development is proposing to construct a 98-unit apartment building and 69 townhome units. Staff review is for compliance to the Commission's rules D, E and I. *This item was approved at the September 2017 Commission meeting contingent upon receipt of an O & M agreement meeting the Commission's rules.*

**2017-017 Mary Queen of Peace Catholic Church, Rogers.** At their June 14, 2017 meeting the Commission granted Staff approval authority pending satisfactory compliance with Staff's findings dated June 16, 2017. All items from the findings have been completed with the exception of the operation and maintenance agreements for the stormwater facilities. *In his August 31, 2017 email, Andrew Simmons responded that he has the O&M agreement in hand, just awaiting recordation.*

**2017-021 Hindu Society of MN, Maple Grove.** At their June 14, 2017 meeting, the Commission approved this project per Staff's recommendations. All the recommendations have been met with the exception of the O&M plan agreements.

**2017-034 Plymouth Memory Care, Plymouth.** This project is a new Senior Living Facility located on a 4.7 acre parcel located northwest of CR 101 and Medina Road. The project will replace one single family home located on the site. Stormwater, grading and erosion control plans were submitted for review. *This project was approved by the Commission at its September 2017 meeting subject to the receipt of an O&M agreement acceptable to the Commission.*



# **FISH LAKE INTERNAL LOAD PROJECT.**

1. Mobilization for the Alum treatment began the morning of September 18, 2017. Two 7000-gallon capacity temporary chemical storage tanks were placed on-site to store liquid aluminum sulfate. The alum was delivered to the site in 5,000 gallon tanker trucks to transfer alum to the temporary lakeshore chemical storage tanks. The storage tanks allowed for the continuous transfer of alum to the treatment barge at a rate that exceeds the delivered supply from the tanker trucks.
2. The treatment barge started applying alum to Fish Lake at 1:00 PM on September 18. The treatment barge had a computer with GPS technology that had pre-programmed bathymetry data to assist with the route of the application. The computer also controlled the pumping rate of the alum based on boat speed and water depth to ensure the effective dose of alum applied to the lake.
3. The treatment barge has the ability to apply 20,000+ gallons of alum per day. Alum was applied to 120 acres of Fish Lake at depths greater than 20 feet. The target dose of alum was 95,000 gallons for the entire treatment. A total of 95,349 gallons of alum (22 alum trucks) was applied to Fish Lake. The treatment was completed by 1:00 PM on September 21.
4. HAB Aquatic Solutions set up a website for the Fish Lake Alum Treatment (<http://fishlakealum.com>). The website gave daily updates of the project, and provided an opportunity for anyone to submit questions that they may have had about the project.
5. The Fish Lake Area Residents Association (Dave Haas) set up a media event on September 20. Doug Baines attended the media event as representation for the Elm Creek Watershed Commission. There were approximately 10 to 15 home owners in attendance. There were also presentations by HAB Aquatic Solutions and Three Rivers Park District about the project followed by a boat tour in order to observe the alum application. The CCX news media video is available at the following link: <https://www.youtube.com/watch?v=Mt1gYo5IGtw>

Daily Application Log for Fish Lake, MN Alum Application - 2017						
Date	Lake	Hours of Application	Approx. Alum Applied (gal)	Approx. Acres Covered	Alum Truck Deliveries	Notes
9/18/2017	Fish	12:35 - 20:25	19,800	50.2	6	First day of application
9/19/2017	Fish	6:55 - 21:00	30,668	77.8	7	
9/20/2017	Fish	7:40 - 21:35	29,385	74.3	7	
9/21/2017	Fish	7:35 - 13:05	15,496	39.1	2	Application completed
<b>Total</b>			<b>95,349</b>	<b>241.4</b>	<b>22</b>	



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### RUSH CREEK HEADWATERS SUBWATERSHED ASSESSMENT

1. Wenck staff have completed and QA/QC'd the hydroconditioning of the Digital Elevation Model (DEM) for the Study Area. They expect to submit the DEM and subwatershed delineations to Jim and Jason in early October.
2. Water quality data, including monitoring being completed this year, have been assembled and evaluated.
3. Map books have been assembled for the Study Area, including the following figures:
  - a. Location, including lakes, streams, and ditches
  - b. Land Use
  - c. Land Cover
  - d. Soil
  - e. Feedlots and animal locations
  - f. Subwatersheds and direction of flow
  - g. Coarse-grained Revised Universal Soil Loss Equation (RUSLE) sedimentation "risk"
  - h. Potential tile-drained areas
4. Wenck staff are in the midst of running the ACPF and PTMAApp tools. The core team will meet in October to review the first draft of BMPs identified in this first cut.
5. At the November 8 TAC meeting they expect to present the following:
  - a. Continued discussion of Problems and Issues
  - b. Review of tool results and strategies for wider review
  - c. Continued discussion regarding public participation and input process
6. The Wenck team would like to hold a public meeting prior to Thanksgiving.

### KRISTEN BARTA.

Below are the updated buffer numbers as of last month.

Parcel Status	# of parcels
Compliant	46
Pending site visit	3
Plan in place/pending installation	14
Non-Compliant/No Response	30
<b>TOTAL</b>	<b>93</b>

*Other news* – The County is repairing a culvert under CSAH 24 that will return the lake level of Holy Name Lake to its DNR determined elevation.

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

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

*Italics indicates new information*

*\* indicates enclosure*

# elm creek

## Watershed Management Commission

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### UPDATES

#### STAFF REPORT November 2, 2017

#### RUSH CREEK HEADWATERS SUBWATERSHED ASSESSMENT

1. The hydro-conditioned the Digital Elevation Model (DEM) for the Study Area has been finalized and has been used to develop a much more accurate stream network and drainage subcatchments. The Study Area has been broken down into six Management Units: Lake Henry, Lake Jubert, Lower Rush Creek, Upper Rush Creek, South Tributary, and Tilton's.
2. Map books have been assembled for the Study Area and each of the Management Units, including the following figures:
  - a. Location, including lakes, streams, and ditches
  - b. Land Use
  - c. Land Cover
  - d. Soil properties
  - e. Feedlots and animal locations
  - f. Coarse-grained Revised Universal Soil Loss Equation (RUSLE) sedimentation loading rate by catchment
  - h. Potential tile-drained areas
  - i. ACPF raw model results
  - j. Known flooding and stream erosion areas
4. At the November 8 TAC meeting they expect to present the following:
  - a. Discussion of priority strategies and areas by Management Unit
  - b. Review of model findings
  - c. Continued discussion regarding public participation and input process and identification of key landowners
5. The City of Corcoran has tentatively scheduled an Open house for December 7, 2017 and will send an invitation to all property owners in the Study Area
6. See Wenck's November Status Report on the reverse side.

#### KRISTEN BARTA

Below are the updated buffer numbers. (The numbers do not add up because some parcels with plans in place also applied for waivers.)

Parcel Status	# of parcels
Compliant	53
Pending site visit	1
Waivers approved	7
Plan in place/pending installation	14
Non-Compliant/No Response	20
<b>TOTAL</b>	<b>93</b>



# Technical Memo

**To:** Elm Creek WMO Commissioners

**From:** Diane Spector, Wenck Associates, Inc.

**Date:** November 2, 2017

**Subject:** Rush Creek Headwaters SWA Status Report

This report details Rush Creek Headwaters Subwatershed Assessment project progress through October 2017.

## Budget status:

Budget*	\$56,700.00
Through 9/30/17	\$12,601.92
10/1/17 – 10/31/17	\$9,845.50
Balance	\$34,252.58

\*For Wenck Associates services only, excluding JASS or Hennepin County services

## Activities October 2017:

- Used the hydro-conditioned Digital Elevation Model (DEM) to generate accurate stream network and catchments, and established six Management Units.
- Facilitated one Core Team meeting
- Reviewed stream assessment and aerial photo data to ID potential areas of erosion
- Identified probable septic system locations and classified by pre-1990 and post-1990
- Compiled map books for each Management Unit
- Completed RUSLE and Probable Tile Drained Areas geo-analysis and applied the ACPF model by Management Unit

## Expected November 2017 Activities:

- Complete first draft of analysis with ACPF and PTMApp tools
- Facilitate one TAC meeting to review initial model results
- Prepare website content
- Consult with Corcoran and prepare for Open House in December.



# elm creek Watershed Management Commission

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Item 4a2) w

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## **CSAH 81 & CSAH 101/13 Intersection Improvement Project** **(Project Update)** **City of Rogers, Project #2017-022**

***Project Update:*** *This project was discussed and conditionally approved at the July ECWMC meeting. The original project findings, along with updated findings are included below. The original submittal included dependence on stormwater rate controls through a pond to be constructed with an adjacent project to the south; however the design of the adjacent project was not yet complete at time the CSAH81/CSAH 101 project was reviewed. One of the conditions of approval was the review and approval of the final design for the pond that will be used for stormwater control. This update provides an update to the project findings, with new findings italicized in the text below.*

**Project Overview:** This project is located at the intersection of County State Aid Highway (CSAH) 81 and CSAH 101/13 in Rogers. The project will include a mill and overlay of the existing pavement and the creation of additional turn lanes, and it will result in the creation of 2.37 acres of new impervious area. The project will also include two new detention ponds to provide rate control and water quality improvements. Construction is anticipated to begin in July 2017.

**Applicant:** City of Rogers, Attn: Andrew Simmons, 22350 South Diamond Lake Road, Rogers, MN 55374. Phone: 763-428-8580. Email: [asimmons@rogersmn.gov](mailto:asimmons@rogersmn.gov).

**Engineer/Agent:** WSB & Associates, Attn: Tony Miller, 701 Xenia Ave S #300, Minneapolis, MN 55416. Phone: 651-286-8469. Email: [tmiller@wsbeng.com](mailto:tmiller@wsbeng.com).

### **Exhibits:**

- 1) ECWMC Request for Plan Review and Approval and fee, dated December 7, 2016 but not received until May 31, 2017.
- 2) Hydraulic Report, signed, dated May 24, 2017
- 3) 95% Plans, cover sheet signed by WSB engineer dated December 28, 2016, unsigned by others, including City of Rogers and Hennepin County; additional sheets signed and dated May 23, 2017. Total of 191 sheets in plan set but only relevant sheets initially submitted.
  - a. Sheet 1, Title Sheet

- b. Sheet 14-23, Typical Sections
  - c. Sheets 83-96, Construction Plan, Roadway Profiles and Intersection Details
  - d. Sheets 97-110, Drainage Plan, Profiles, and Tabulations
  - e. Sheets 111-113, SWPPP
  - f. Sheets 114-125, Erosion Control Plans
- 4) Storm Sewer Design Computations
  - 5) Appendix A. Soil Borings map and soil boring logs
  - 6) Appendix B. HydroCAD computations.
  - 7) Appendix C. P8 Computations.
  - 8) Appendix D – HY 8 Results
  - 9) CSAH 101 Intersection Improvements & Justen Circle Extension Drainage Memorandum
  - 10) *Memorandum, dated September 28, 2017, summarizing design update.*
  - 11) *Hydraulic Report: CSAH 101 Intersection Improvements and Justen Circle Extension*
  - 12) *Existing and Proposed HydroCAD Model Outputs*
  - 13) *Plan sets for CSAH 101 Intersection Improvements and Justen Circle Extension projects*

### **Findings**

- 1) A complete application was received on May 31, 2017. The initial 60-day review period per MN Statute 15.99 expires July 29, 2017.
- 2) The site is at the top of a hill and it drains to seven different directions, although the majority of the site drains to the east (See Figure 1). The majority of the project drains towards French Lake, and some portions drain to the I-94 corridor and eventually to Rush Creek.
- 3) The project area is a total of 17.26 acres and 11.58 acres will be disturbed. The current impervious area is 7.09 acres (41%), and the proposed impervious area is 9.46 acres (55%).

### **Stormwater Management - Quantity**

- 4) One pond will be constructed with the project and a second pond will be constructed within approximately 12 months in conjunction with an adjacent project for the extension of Justin Circle.
- 5) The total pre- and post-project flow rates from the entire project area and individual outfalls are as follows:

<b>Total Project Area</b>	<b>2-yr (cfs)</b>	<b>10-yr (cfs)</b>	<b>100-yr (cfs)</b>
Pre-Development Rate	32.9	61.2	197.4
Post-Development Rate	35.2	58.8	192.9

<b>North-East Outfall</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (1.1 ac, 39.3% imperv.)	3.1	5.1	9.5
Post-Development Rate (1.1 ac, 46.2% imperv.)	3.1	5.1	9.5

<b>North-West Outfall</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (2.6 ac, 70.6% imperv.)	4.8	5.7	6.1
Post-Development Rate (2.6 ac, 73.8% imperv.)	4.8	5.7	6.1

<b>West-North Outfall</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (1.4 ac, 34.1% imperv.)	3.8	6.4	12.2
Post-Development Rate (1.4 ac, 34.1% imperv.)	3.8	6.4	12.2

<b>West-South Outfall</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (1.0 ac, 27.7% imperv.)	2.6	4.5	8.6
Post-Development Rate (1.0 ac, 27.7% imperv.)	2.6	4.5	8.6

<b>South-West Outfall</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (7.4 ac, 45.4% imperv.)	10.7	19.1	39.1
Post-Development Rate (7.8 ac, 49.0% imperv.)	14.9	21.3	38.8

<b>South-East Outfall</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (2.7 ac, 53.7% imperv.)	7.2	12.2	22.7
Post-Development Rate (2.3 ac, 51.1% imperv.)	5.3	11.0	20.5

<b>East Outfall</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (45.6 ac, 34.7% imperv.)	0.7	7.9	99.1
Post-Development Rate (45.6 ac, 46.1% imperv.)	0.7	4.5	97.4

<b>Justen Circle Extension</b>	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate (50.5 ac., 38.1% imperv.)	52	92	198
Post-Development Rate (50.5 ac, 41.5% imperv.)	48	78	168

<b>Total Project Area (Including Justen Circle Extension)</b>	<b>2-yr (cfs)</b>	<b>10-yr (cfs)</b>	<b>100-yr (cfs)</b>
<i>Pre-Development Rate</i>	<i>85</i>	<i>153</i>	<i>395</i>
<i>Post-Development Rate</i>	<i>83</i>	<i>137</i>	<i>160</i>

- 6) The modeling results include an assumed development that could take place adjacent to the project area and may utilize excess capacity in the pond being constructed.
- 7) The modeling results presented in the table above do not account for a second pond that is planned to be constructed in conjunction with a second, smaller street project within approximately one year (see Figure 5 below). Preliminary modeling results for this second pond have been provided and indicate the increase in runoff rates from this project may be mitigated by the second pond; however neither the design nor the modeling has been finalized.
- 8) Based on 1.1" of water runoff from 2.31 acres of new impervious areas, 0.21 acre feet of water abstraction is required per the Commission and MPCA requirements.
  - a. Based on soil types and water table elevation, infiltration is not feasible within the project area. Dominant soil types are D soils, which cannot be expected to provide good infiltration.
  - b. Applicant proposes using a large sedimentation basin to achieve the necessary abstraction credits.

#### Stormwater Management - Quality

- 9) Stormwater quality is managed through two new ponds.
- 10) Pre and post development analysis are as follows:

<b>Condition</b>	<b>TP Load (lbs./yr) (MIDS)</b>	<b>TSS Load (lbs./yr) (MIDS)</b>	<b>Runoff volume (AF/yr.)</b>
Pre-project without Mitigation	62.5	20,030	N/A
Pre-project with Mitigation (baseline)	62.5	20,030	N/A
Post-project without Mitigation	N/A	N/A	N/A
Post-project with Mitigation	59.2	16,313	N/A
Net Change ("baseline" compared to "post-development with mitigation")	<b>-6.1</b>	<b>-3,717</b>	N/A

- 11) Additional treatment will be provided when the second pond to the south is constructed.



<b><i>Justen Circle Water Quality Contribution</i></b>	<b><i>TP Load (lbs./yr) (P8)</i></b>	<b><i>TSS Load (lbs./yr) (P8)</i></b>	<b><i>Runoff volume (AF/yr.)</i></b>
<i>Existing Conditions</i>	14.3	3,444	N/A
<i>Proposed Conditions</i>	13.7	2,115	N/A
<b><i>Net Change</i></b>	<b><i>-0.6</i></b>	<b><i>-1,329</i></b>	<i>N/A</i>

12) The ponds will be maintained by Hennepin County.

#### Grading and Erosion Controls

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

#### Floodplain Impacts

14) There are no floodplain impacts associated with this project

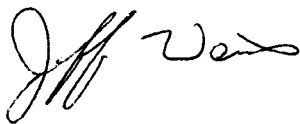
#### Wetland Impacts and Buffers

15) The City of Rogers is the LGU in charge of administering the Wetland Conservation Act for this site.

#### **Recommendation:** approval contingent upon;

- i. Review and administrative approval of the model revisions to more accurately depict the project immediately after construction.
- ii. Review and approval of the model results and design of the planned pond to be constructed to the south in association with the Justen Circle extension project.

*Update: Conditional approvals have been met. No additional submittals are required.*



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

October 10, 2017

Date

Figures 1 and 2: Location Map





Figure 3: Existing drainage plan

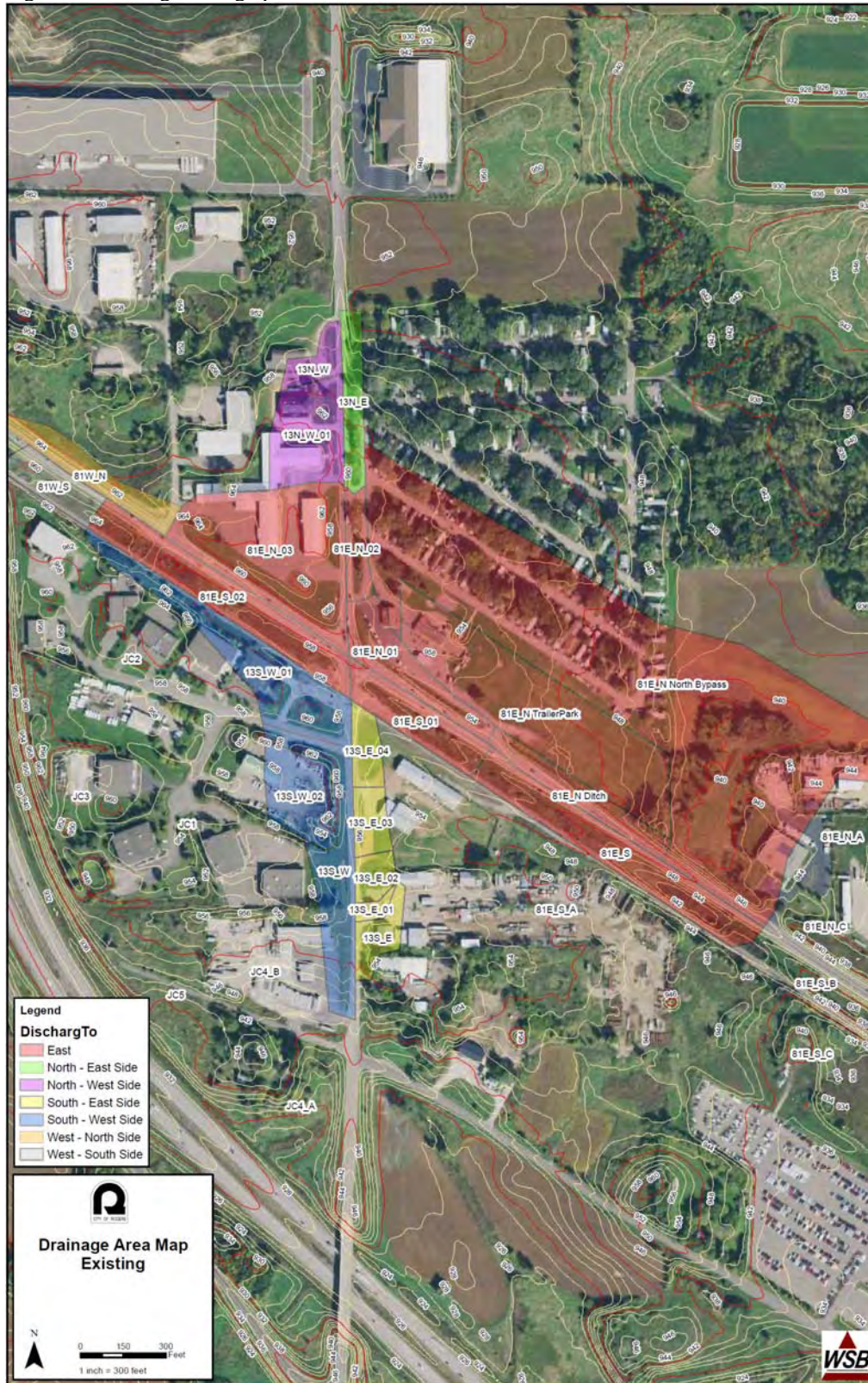




Figure 4: Proposed drainage plan

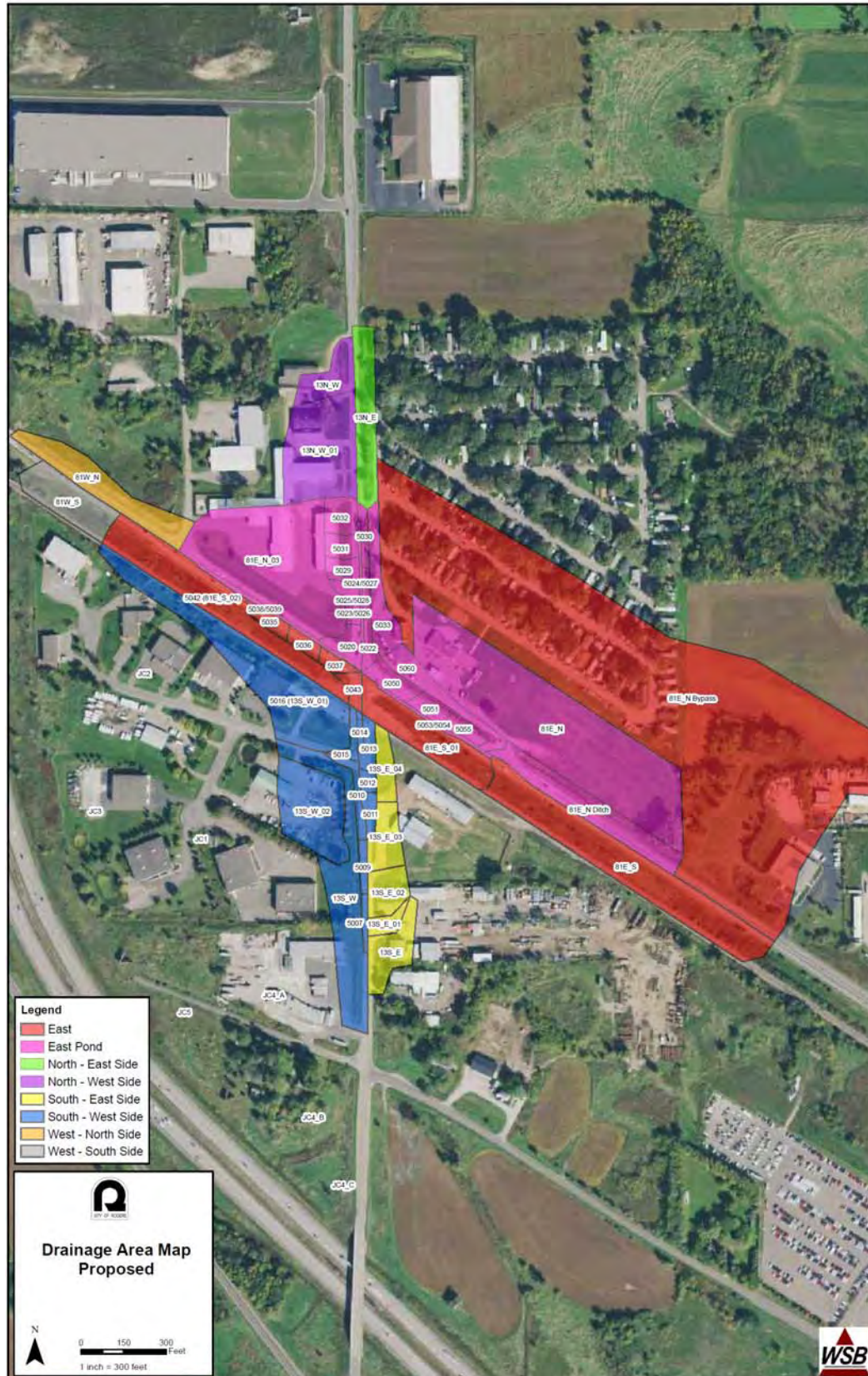
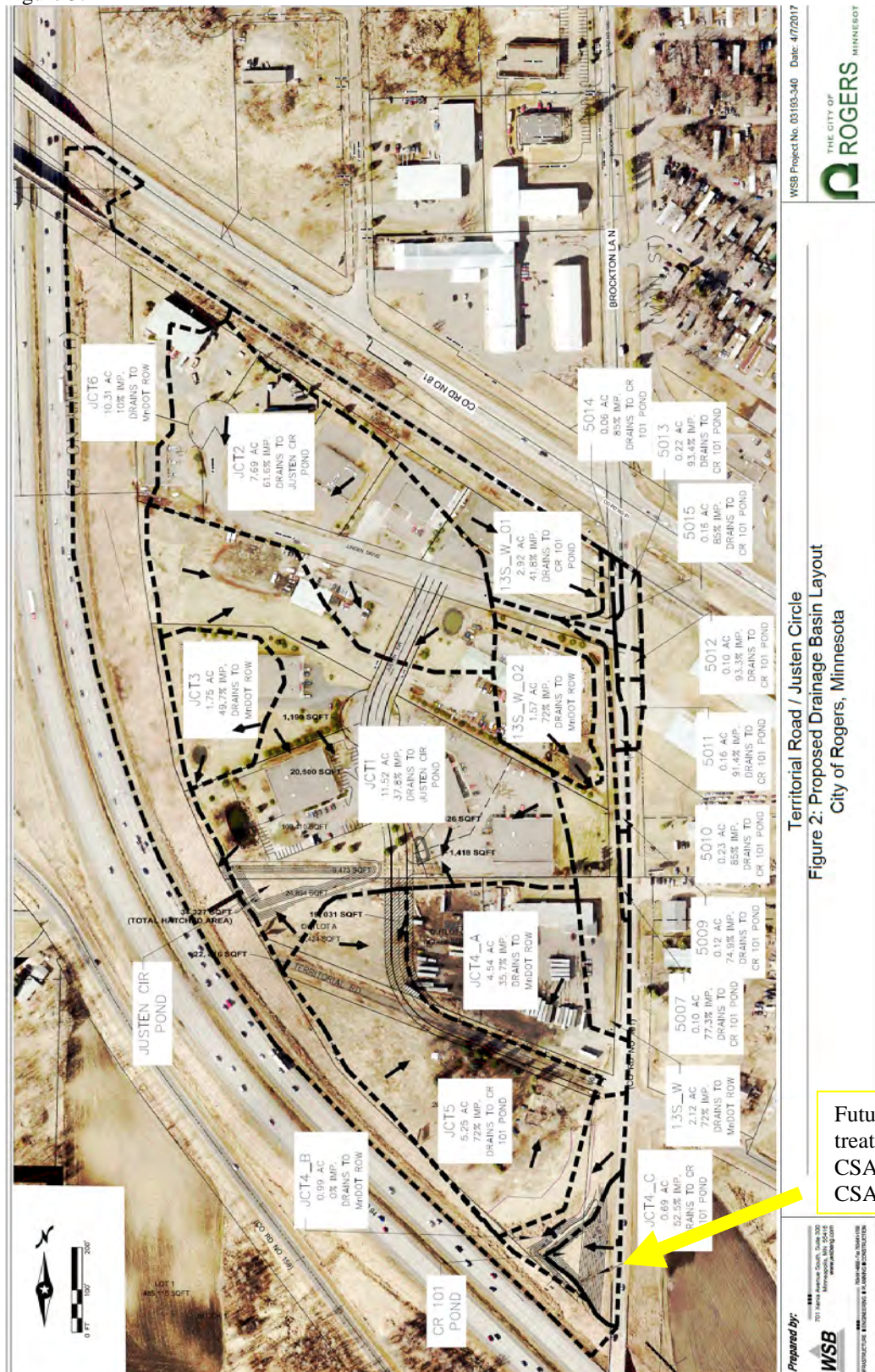




Figure 5:



# elm creek

## Watershed Management Commission

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Item 4a2) ah

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### **Enclave at Elm Creek** **Plymouth, Project #2017-036**

**Project Overview:** This site is a 73 acre parcel located on CSAH 101 and Prairie Creek Rd, about  $\frac{3}{4}$  miles north of TH 55 (PID=0611822320001). The property will be developed into 111 residential lots and a new school site. The Enclave at Elm Creek is the residential portion of the project. It is located in the northerly  $\frac{2}{3}$  of the site (approximately 49 acres). The school site will encompass approximately 24 acres in the SW corner of the property. At this time, the applicant is requesting a conditional review and decision for phase I which includes 23 single family lots, the construction of 54th Ave and Yellowstone Lane. Stormwater, grading and erosion control plans were submitted for the complete 111 lot residential portion of the property. Limited stormwater management plans and no grading and erosion control plans were submitted for the future school site on the parcel.

**Applicant:** West Plymouth Development, Inc., Attn. Justin Bannwarth, 10850 Old County Road 15 Suite 200, MN 55441. Phone: 763-205-3961. Email: [justin@gonyeacompany.com](mailto:justin@gonyeacompany.com)

**Engineer/Agent:** Sathre-Bergquist, Inc., Attn. Christian Froemke, Sathre-Bergquist, 150 South Broadway, Wayzata, MN 55391. Phone: 952-476-6000. Email: [cfroemke@sathre.com](mailto:cfroemke@sathre.com)

#### **Exhibits:**

- 1) Elm Creek Watershed Management Commission Request for Plan Review and Approval. Received August 16, 2017.
- 2) Fees for 63 acres of new residential, low density development. \$3,200. Additional \$5,420 fee received September 1, 2017 (see item 2 of the findings below)
- 3) Stormwater Management Plan for Speak the Work Church Development (current owner of the parcel) by Advanced Engineering and Environmental Services Inc., dated July 2017.
- 4) Site plans for the Enclave at Elm Creek 1<sup>st</sup> Addition by Sathre-Bergquist, Inc., dated July 18, 2017, with all sheets, except 16 to 19 having last revision date of August 10, 2017.
  - a. Sheet 1 of 28, Title Sheet
  - b. Sheets 2-6 of 28, Final Street Plan
  - c. Sheets 7-11 of 28, Final Sanitary and Watermain Plan
  - d. Sheets 12-15 of 28, Final Storm Sewer Plan
  - e. Sheets 16-19 of 28, Final Grading Plan, last revision date of September 11, 2017
  - f. Sheets 20-23 of 28, Final Erosion Control Plan
  - g. Sheets 24-28 of 28, Detail Sheets.

- 5) Emails from Sathre-Bergquist
  - a. Dated 9/11/17 and 9/18/17 requesting consideration of partial approvals contingent upon future platting and future school site development.
  - b. Dated 9/22/17 with;
    - i. Summary P8 chart for residential site plan only for total phosphorus and suspended solids.
    - ii. Pond 3 (Filter basin) updated details.
  - c. Dated 10/6/17 with;
    - i. Figure 3, Treatment Modifications for Residential Area Only
    - ii. Site Option B2 south side with pond.
- 6) SWPPP plan (3 of 3 sheets) dated July 18, 2017.
- 7) Email from Jim Renneberg, City of Plymouth Engineer dated 10/9/17.

**Findings:**

- 1) A complete application was received August 16, 2017. The initial 60-day review period for a decision from the ECWMC, per MN Statute 15.99, expires on October 15, 2017.
- 2) Fees associated for our review were based on the total site area and project type. Based on plan submittal, this site will have approximately 24 acres of institutional development, 49 acres of low density residential development and floodplain review. ECWMC fees received were \$8,620 for this site review.
- 3) Per the ECWMC 3<sup>rd</sup> generation stormwater management plan, rules and standards, the complete site will be reviewed for stormwater management (Rule D), floodplain alteration (Rule F) and buffer strips, (Rule I). Grading, erosion and sediment control reviews will be provided only on the residential portion of this parcel.
- 4) General Drainage-
  - a. Currently 22.7 acres drain south into an existing wetland and its associated floodplain/ditch. This then flows east and south before connecting into the main stem of Elm Creek 1,600 feet from this project behind the Wayzata High School. The rest of the site (40 acres  $\pm$ ) flows north into DNR wetland 455W. This wetland outlets to the east where it meets the main stem of Elm Creek about 1.2 miles from this project in the large floodplain complex of east of Peony Lane.
  - b. Proposed conditions will take the future school site (21.56 acres) and 4.95 acres of residential area to the south existing wetland and its associated floodplain/ditch. The school site will treat their own water in a future stormwater management system. The 4.95 acres residential section will be treated in a filtration basin prior to discharge into the SE corner of the site. The remainder of the residential area will flow north before discharging into 2 treatment ponds which will outlet into DNR wetland 455W.
    - i. New impervious areas proposed = 20.8 acres
- 5) **Note; Stormwater management information is based on the construction, operation and maintenance of Pond 4 south of the future school site. The function of this pond is a large component of the abstraction (46,452 cubic feet of volume) and nutrient (2.1 lbs/year phosphorus) controls proposed for the parcel. Construction and timing of the school site is anticipated, but not guaranteed at this time. At this time, the applicant only requests approval of the mass grading for the residential section of**



**the project. An alternative for additional abstraction, in lieu of the school property project has been proposed but not preferred by the applicant. Escrows for this alternative will be held by the City of Plymouth.**

6) Rate Controls

a. The existing and proposed land use runoff rates will be as follows:

	2-Year (2.87") Runoff Rate (cfs)	10-Year (4.27") Runoff Rate (cfs)	100-year (7.29") Runoff Rate (cfs)
Pre-Development to South	17.7	41.6	98.0
Post-Development to South	13.9 (14.1*)	27.0 (30.9*)	50.3 (95.4*)
Pre-Development to North	35.3	84.3	196.0
Post Development to North	21.5	50.5	155.1

(\*post development rates to south without school pond)

7) Volume and Load Controls. As with the rate controls, volume and load reductions are dependent upon the construction of; 1) NURP pond/filter bench 2) NURP pond, 3) Filtration basin, and 4) Future NURP pond with irrigation of the school site.

a. Based on these conditions, the overall TSS and volume loads will meet the Commission standards.

b. The overall phosphorus loads for the site cannot be determined at this time.

i. The P8 model removals credited to the sand filter for Pond 3 appear too high (70 to 96%). The P8 filtration efficiency for pond 3 should be adjusted to 50% for the P0 fraction and 85 percent for the other fractions to determine the proper total phosphorus reduction for this devise.

Condition ( 69.2 acre parcel/ 20.8 acres new impervious area)	TP Load (lbs/yr)	TSS Load (lbs/yr)	Required Abstraction (cu. ft.)	Filtered Volume (cu.ft.)
Pre-development (baseline)	15.5 (11.0*)	4,900 (3,585*)	NA	NA
Post-development without BMPs	49.1	15,318	83,050 (65,445**)	NA
Post-development with BMPs	15.2 (13.1*)	2,123 (2,163*)	93,643 (0*) (28,847**)	36,598
Net Change (baseline compared to post- development w/ BMPs)	<b>-0.3</b> (+2.1*)	<b>-2,777</b> (-1,462*)	<b>-10,593</b> (+83,050*) (+36,598**)	<b>-36,598</b>

\*post development values without school pond.

\*\* post development with alternative treatment option. (16.4 ac impervious)

8) The City of Plymouth is the responsible party for the operation and maintenance of the stormwater system on the residential portion of the site. The Wayzata School District will be responsible for the stormwater facilities on their portion of the project.



9) Wetlands and Wetland Buffers;

- a. The City of Plymouth is the LGU in charge of administering the MN Wetland Conservation Act within their jurisdiction.
- b. Portions of this site was previously graded with wetland impacts during project 2010-022. Based on the wetland replacement plan on file for that project, 0.77 acres were impacted and 1.78 acres were created on site. The replacement area was to be located south of the future school site (an area marked as incidental wetland on the site plans).
- c. The Enclave at Elm Creek site plans show two wetlands within the residential (grading) portion of the project and three in the future school site (no grading proposed at present).
- d. No wetland impacts are shown within the residential site plans.
- e. Significant wetland impacts appear to occur on the future school site. Because this project submittal does not propose grading on the school site area of the parcel, staff will assume these will be addressed with a future submittal.
- f. Staff further assumed that the wetland delineation has been reviewed and approved by the City of Plymouth during work on the property done under Speak the Word Church projects.
- g. Buffer plans in the residential section of this site will meet the Commission standard of 10' minimum and 25' average. Actual buffer areas will average 50' on the DNR wetland basin (wetland 6) and 30' on the other wetlands in the parcel.

10) Floodplain.

- a. There is a FEMA zone A floodplain along the south property line of this parcel. FEMA Base Flood Elevations (BFE) were not modeled for this flood zone. The site plans label the high water elevation on this channel at 964.0. No hydrology/hydraulic modeling was provided for this channel area as part of this submittal.
- b. No hydrology/hydraulic modeling was provided for the HWL elevation on the DNR wetland on the north side of this site. The plan labels the elevation as 947.6.
- c. No impacts appear to be proposed within the flood elevations determined on this site.
- d. The applicant should pursue a FEMA letter of map amendment for the flood zones on this parcel.

11) SWPPP, Erosion and sediment control plans meet the Commission standards.

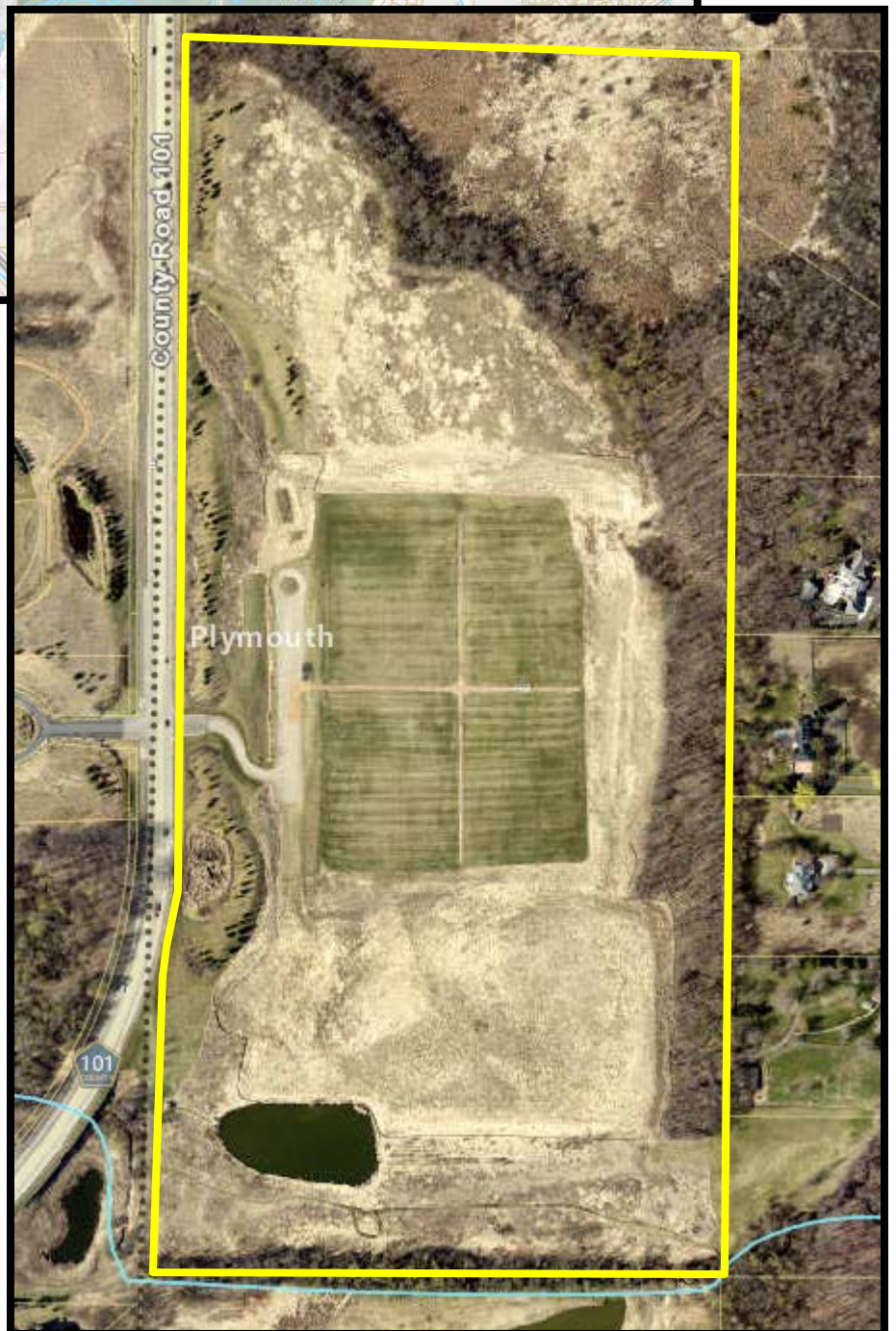
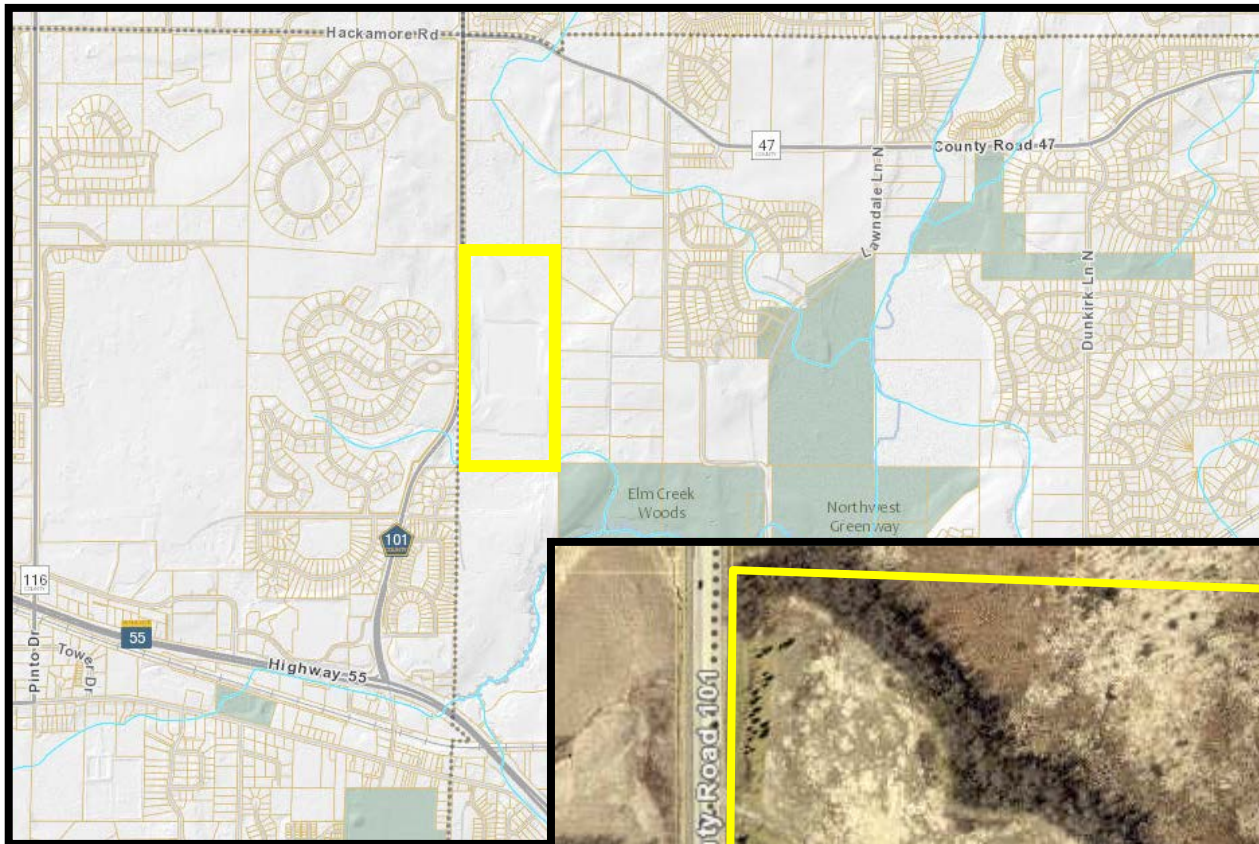
**Recommendation:** Approval Conditioned upon;

- 1) The applicant meeting the Commission abstraction/filtration requirements by December 31, 2018 by either,
  - a. The school site being developed with stormwater controls as proposed, or
  - b. The alternative treatment options (figure 3) as proposed by the applicant.

Hennepin County  
Department of Environment and Energy  
Advisor to the Commission



October 10, 2017





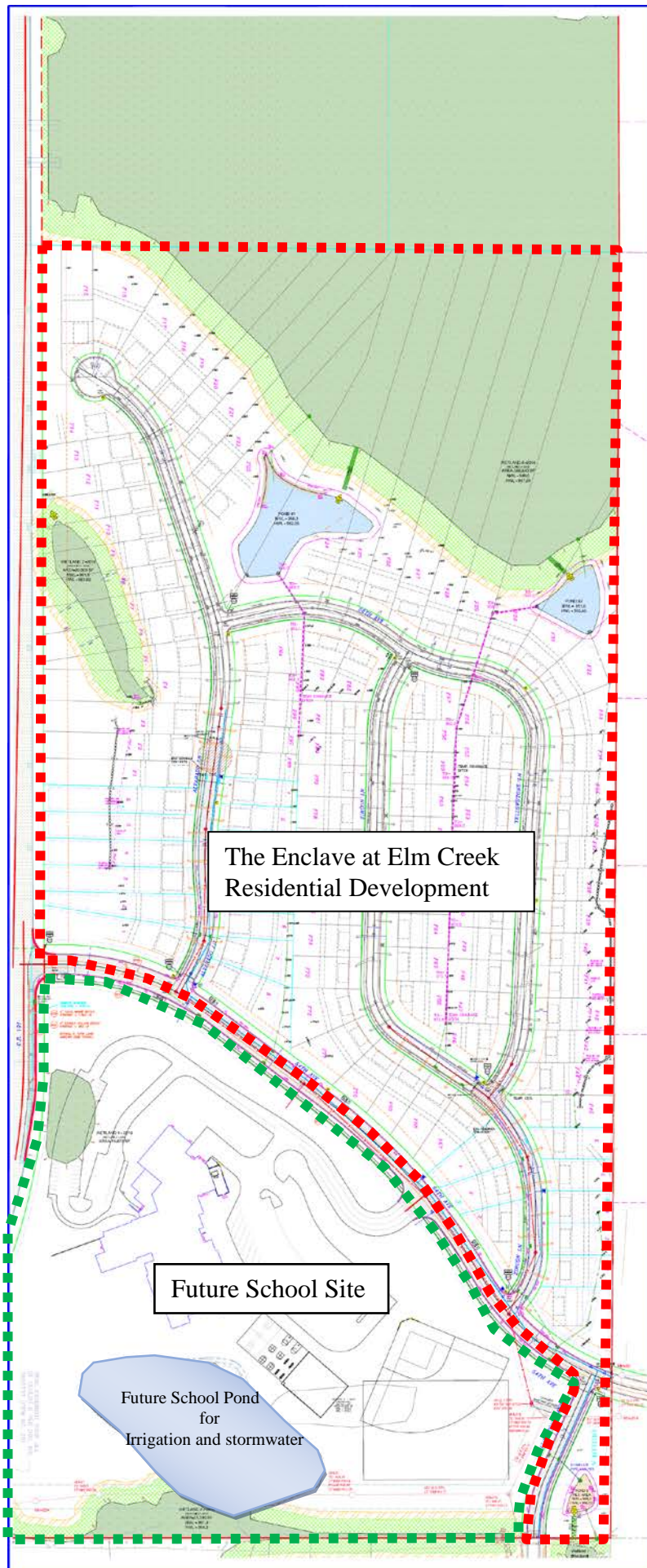
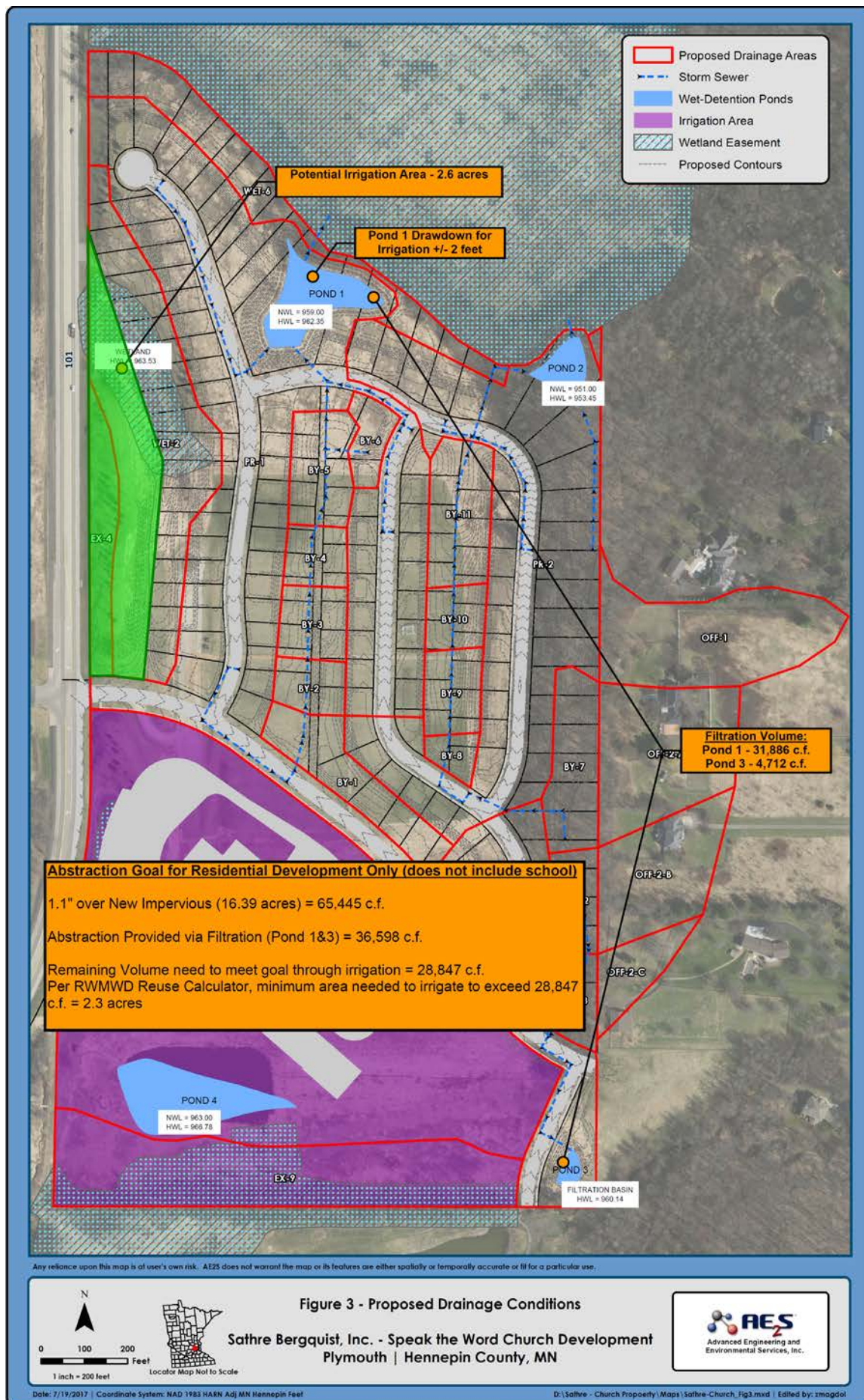




Figure 3. Alternative for Abstraction/Nutrient Controls



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E-mail: [james.kujawa@hennepin.us](mailto:james.kujawa@hennepin.us)

## **Corcoran Lift Station L80**

### ***Corcoran, Project #2017-037***

**Project Overview:** Metropolitan Council Environmental Services is proposing to construct a new sanitary sewer lift station and a 1,400 foot access road to service Corcoran. It will be located on the north side of CSAH 10, just to the west of the Corcoran Lions Park/Hennepin County Fair Grounds. The area disturbed during construction will be 6.2 acres. The new impervious area created will be 0.66 acres.

**Applicant:** Metropolitan Council Environmental Services, Attn. Daniel Fick, 390 Robert Street North, St. Paul, MN 55101. Phone: 651-602-1061 Email: [Danial.fick@metc.state.mn.us](mailto:Danial.fick@metc.state.mn.us)

**Agent:** Foth Infrastructure, Attn. Bill Johnson 8550 Hudson Boulevard N, Lake Elmo, MN 55042. Phone: 651-288-8604. Email: [Bill.johnson@foth.com](mailto:Bill.johnson@foth.com)

**Exhibits:**

- 1) ECWMC Request for Plan Review and Approval and \$800 fee, received August 28, 2017.
- 2) Email from ECWMC staff to Tim Stockman, Foth Infrastructure, dated October 10, 2016.
- 3) L80 Wetland Delineation Report by Wenck Associates dated August 2011
- 4) Technical memo to ECWMC staff from Wenck Associates, dated November 10, 2016, Subject; Corcoran L80 Lift Station Wetland Delineation Verification.
- 5) Site Plans, Elm Creek Corcoran/Rogers Improvements, Corcoran Lift Station L80
  - a. General site plans, 4 Sheets, G1 thru G4
  - b. Civil Utilities Plans, 18 Sheets, CS1 thru CS5 & CU1 thru CU13
  - c. Civil Paving Plans, 20 Sheets, CP1 thru CP20
  - d. Electrical and Elementary & Assembly 23 Sheets

**Findings:**

- 1) A complete application was received September 1, 2017. The initial 60-day decision period per MN Statute 15.99 expires October 30, 2017.

- 2) The project will include;
  - a. Lift station work including construction of approximately 130 ft. of 15" sanitary sewer, 95 ft. of 6" forcemain, lift station, valve and meter vaults, 2 water main hydrants, an access road. It also involves removal and replacement of 170 ft. of forcemain and 220 ft. of water main and hydrant.
  - b. Bass lake road site work which will removal and replacement of the existing 6" forcemain with 6" and 10" forcemain, and 15" sanitary sewer. The work includes approximately 290 ft. of 6" and 10" forcemain, 200 ft. of 15" sanitary sewer and a forcemain discharge manhole structure.
- 3) This project drains to the east and north into the Cook Lake Basin. This is identified as DNR wetland 120P.
- 4) Commission Rules pertinent to this project:
  - a. This site will disturb 6.2 acres and create 0.66 acres of new impervious area. Due to small (<1.0 acre) impervious footprint, a stormwater management plan for rate, nutrient and volume control will not be needed (Rule D)
  - b. Erosion and sediment control plans must be reviewed and approved. (Rule E)
  - c. Wetland boundaries must be delineated and approved by the Commission. (Rule G)
  - d. Wetland buffers must be established on this project (Rule I)
  - e. Floodplains are within this parcel. Floodplain rules must be adhered to. (Rule F)
- 5) Erosion and Sediment Control meets the Commission standards.
  - a. Before construction; perimeter controls will be installed and consist of silt fence, Jersey Barriers, temporary rock construction entrance and existing grass buffer areas.
  - b. During construction; operation and maintenance of BMP's is identified on the site plans, channel erosion control BMP's are identified and adequate, culvert inlet and outlet protections are provided and temporary soil stabilization (seeding/mulching) is addressed for areas where construction activity has ceased for 7 days or more. Dewatering is identified, and must pass through a filter box, sediment basin or treated with BMP's
  - c. After construction; restoration will consist of erosion control blankets in lieu of mulch on slopes 3:1 or steeper, bio-roll ditch checks, seed and mulch on all disturbed areas within 7 days after construction has ceased.
- 6) Wetland boundaries have been delineated and approved by Commission staff.
  - a. No permanent wetland impacts will occur from this project.
  - b. Temporary impacts to WCA jurisdictional wetlands will be allowed under exemption standard 8420.0420, Exemption Standard Subpart 6, Utilities. Wetland areas must be restored to pre-existing conditions.
- 7) Wetland Buffers;
  - a. Wetland buffer signage and easement must be established along the project. The buffer must be a minimum of 10' wide and an average of 25' above the edge of the wetland. Monumentation must be established every 200' or as necessary to define the buffer edge. If the exiting on-site vegetation in the buffer area is left undisturbed, it is considered acceptable.



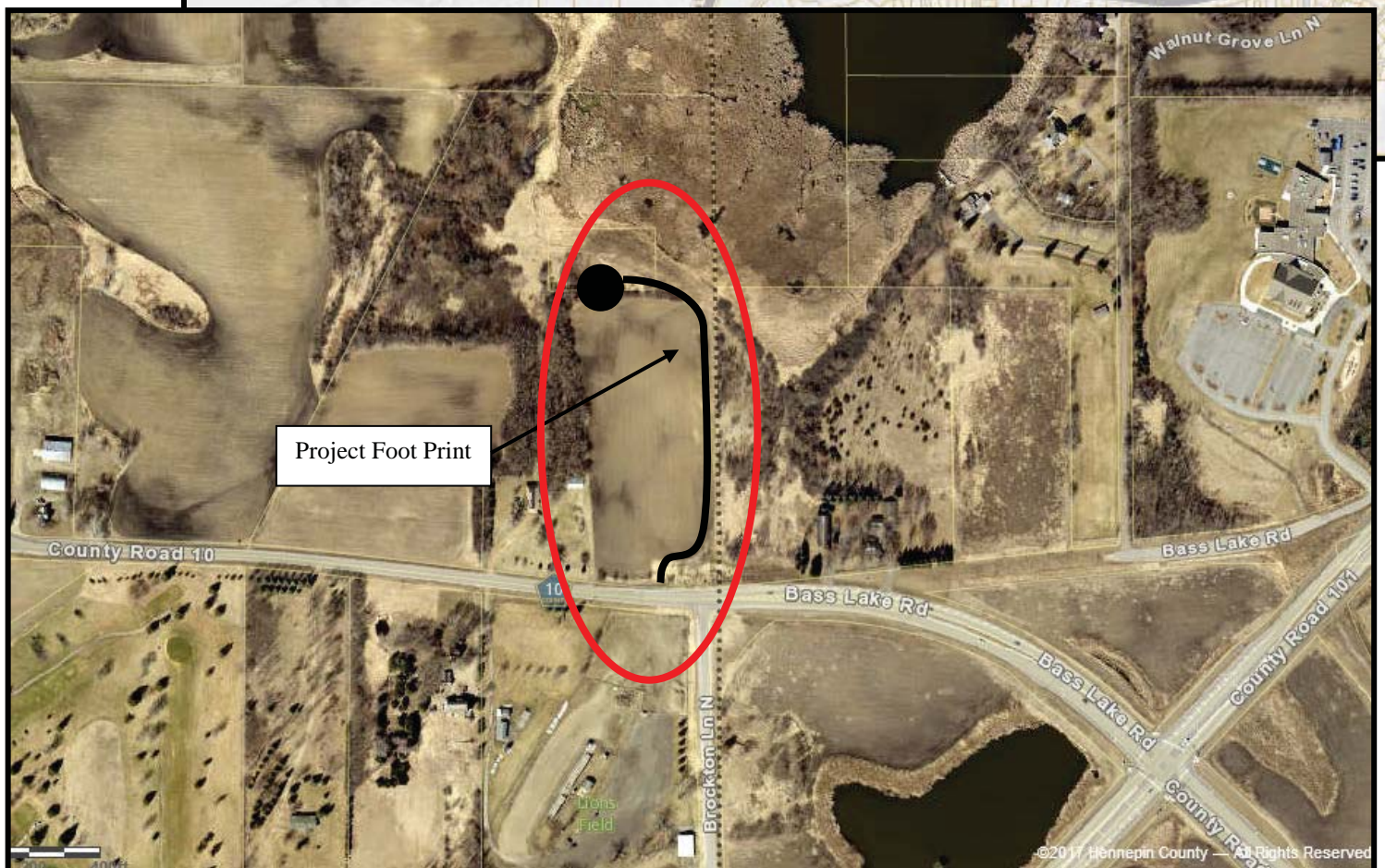
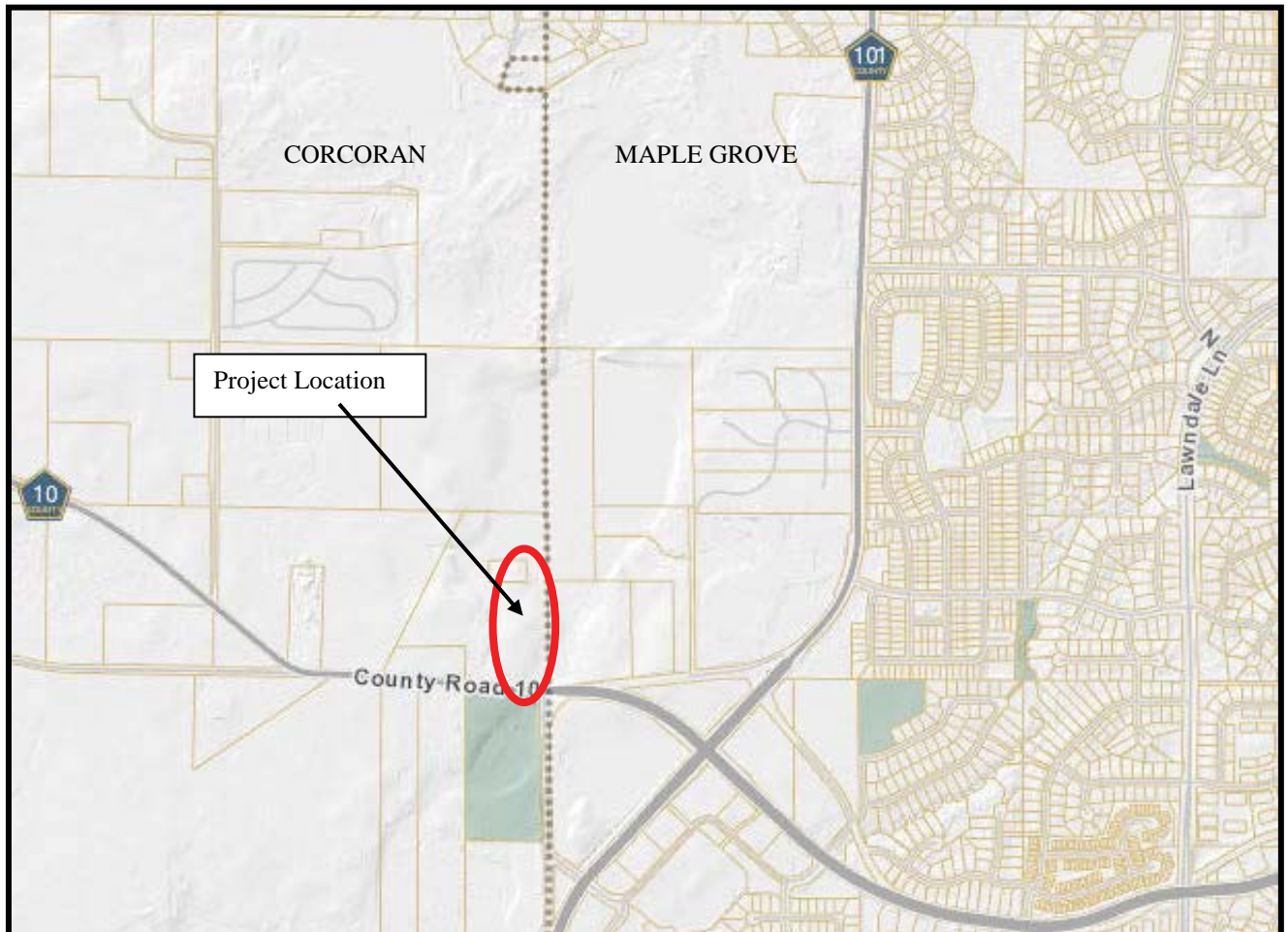
- 8) Floodplains on this parcel are associated with the Cook Lake Basin.
- a. FEMA classifies the Cook Lake basin as a Zone A floodplain. No base flood elevation has been determined.
  - b. The OHWL on this basin, as determined by the DNR, is an elevation of 942.1 (NGVD 29).
  - c. Lowest elevation proposed to be graded is 947.0±. No fill is proposed below this elevation. It can be assumed that no floodplain will occur for the Cook Lake Basin if fill does not occur below 947.0.

**Recommendation:** Approval contingent upon the project meeting the ECWMC wetland buffer requirements.

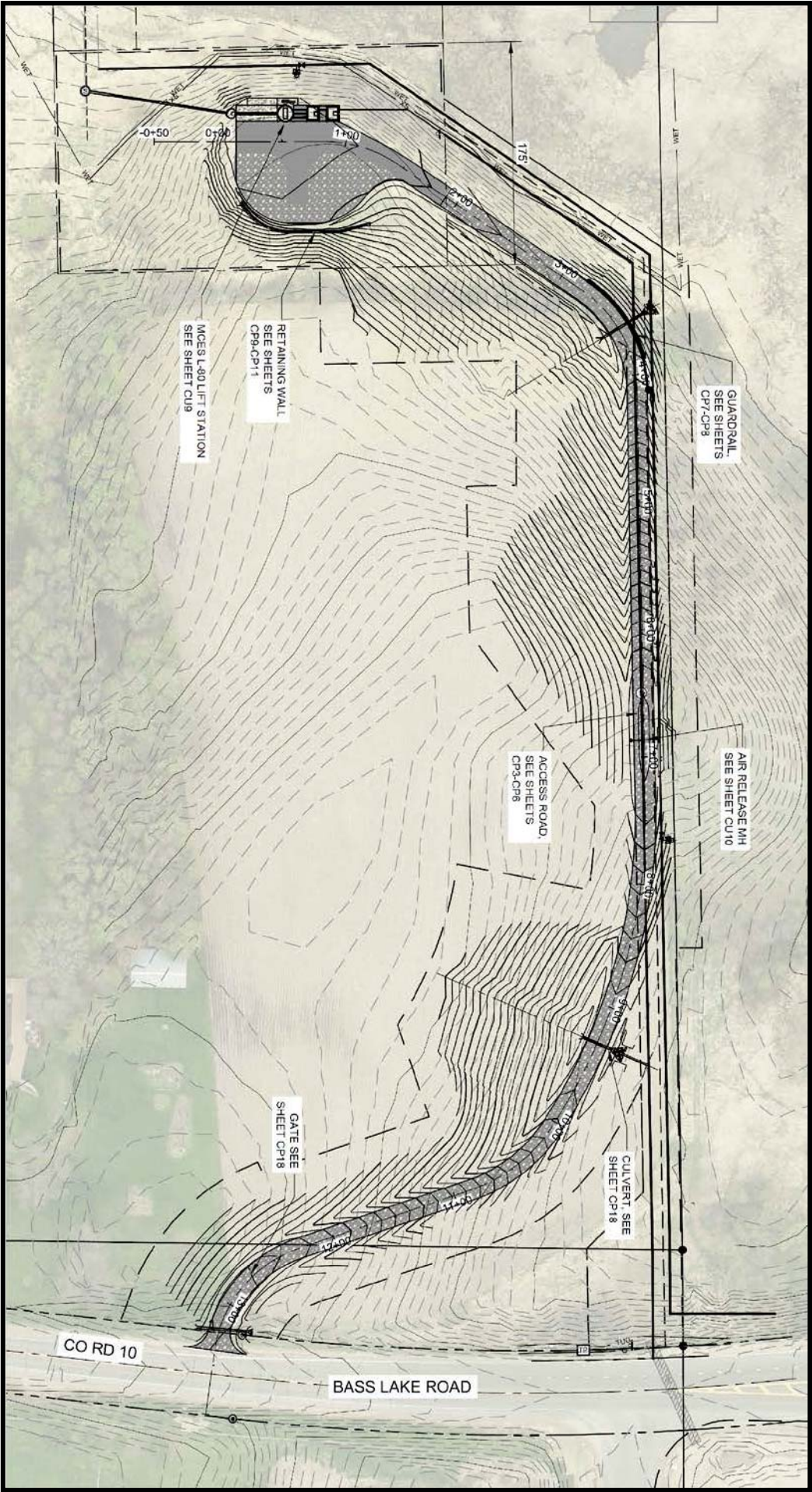
Hennepin County  
Department of Environment and Energy  
Advisor to the Commission



September 21, 2017







# elm creek

## Watershed Management Commission

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Item 4b ad

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E-mail: [james.kujawa@hennepin.us](mailto:james.kujawa@hennepin.us)

### **Bass Lake Crossing** **Corcoran, Project #2017-031**

**Project Overview:** This is two parcels, 48.5 total acres, located north of the intersection of CR 10 and Larkin Road. M/I Homes is proposing to develop the two parcels into 98 single-family residential homes. As proposed, the project will require 0.3303-acre of jurisdictional wetland fill within 5 separate wetland locations. This review will be for compliance with the Commission's stormwater management, erosion & sediment control, wetland, and buffer requirements.

**Applicant:** M/I Homes of Minneapolis, Attn. Mr. Jason Biederwolf, 941 East Hillwind Drive, Fridley, MN 55432. Phone: 612-246-5493. Email: [jbiederwolf@mihomes.com](mailto:jbiederwolf@mihomes.com)

**Agent/Engineer:** Carlson McCain, Attn. Mr. Brian Kallio, 3890 Pheasant Ridge Drive, Blaine, MN 55449. Phone: 763-489-7910. Email: [bkallio@carlsonmccain.com](mailto:bkallio@carlsonmccain.com)

#### **Exhibits:**

- 1) Elm Creek Watershed Management Commission Request for Plan Review and Approval received July 25, 2017.
- 2) Bass Lake Crossing Grading, Development & Erosion Control Plans by Carlson McCain, dated July 21, 2017 with latest revision date of October 3, 2017;
  - a. Sheet 1 of 8, Cover
  - b. Sheet 2 of 8, Grading Index
  - c. Sheets 3 to 6 of 8, Grading, Drainage & Erosion Control Plans
  - d. Sheets 7 and 8 of 8, Details.
- 3) Bass Lake Crossings Existing Conditions by Carlson McCain dated April 14, 2017.
  - a. Sheet 2 of 15, Existing Conditions.
- 4) Bass Lake Crossing Stormwater Management Plan by Carlson McCain dated July 21, 2017, latest revision September 25, 2017.
- 5) Bass Lake Crossing Wetland Permit Application by Kjolhaug Environmental Services Co. dated July 27, 2017.
- 6) Notice of Wetland Replacement Plan Application by LGU, ECWMC, dated August 1, 2017.
- 7) Wetland Conservation Act, Technical Evaluation Panel findings of fact from August 21, 2017 TEP meeting.

#### **Findings:**

- 1) A complete application was received on July 27, 2017. The 60-day decision deadline per MN Statue 15.99 expires September 25, 2017.
- 2) Stormwater Management (ECWMC Rule D). Note; pond and node numbers base on HydroCad report.

Water Quantity. Rate controls meet the Commission standards.

- a. Discharge points from this site are;
  - i. East into Wetland 4, which flows into Cook Lake. Cook Lake is not in Corcoran's shoreland overlay district, but is a natural environment lake in the City of Maple Grove's shoreland district. (21.4 acres)
  - ii. North, into the Rush Creek Floodplain area of the Rush Creek Golf Course approximately 3,000 feet north of here. (36.6 acres)
- b. The west portion of catchment 1, post development, appears to bypass pond 100. The current model have it flowing into pond 100.
- c. We recommend the City of Corcoran consider future development north of this site for sizing pond 400.
- d. The responsible party for long term operation and maintenance of the stormwater facilities must be identified. If it is not the City of Corcoran, an O & M agreement between the City and the landowners must be approved by the City and Commission and recorded on the land title of the property.

Drainage Area	2-year Flow Rate (cfs)		10-year Flow Rate (cfs)		100-year flow rate (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
North-Rush Creek	39.2	17.7	72.7	38.3	130.1	78.8
East-Cook Lake	22.9	10.1	45.1	13.0	90.4	15.0

Water Quality-TP load determined by EC staff 43 acres (no TSS loads calculated)

- e. Pre Development TP = 36.6 lbs/year. (Cropland/farmstead/landscape yard/farmstead=33.2 acres @ 1lb/ac. Wetland/woodland=10.5 acre @ 0.1 lb/ac. grassland 5.8 ac @ 0.4 lb/ac)
- f. Post Development TP = 24 lbs/year (Wetland/trees/disconnected=11.7 acres @ 0.1 lb/ac. Ponding exports=25.8 acres=13.6 lbs/year. Remaining backyard/untreated=11.1 acres =9.1 lbs/year)

Abstraction. True abstraction is not proposed. Four filter basins are utilized for extended detention of water volumes for a 1.1" runoff event from the new impervious surfaces created from the project.

- g. Abstraction requirements = 1.0 acre feet. (11 acres of new impervious area x 1.1"/12=1.0 acre feet). Total filtration proposed will be 1.01 acre feet of volume.
  - i. Drawdown volumes on the four filter basins will be 48 hours or less.

**Filtration Summary**

BMP	BMP Description	Area (Acre @ NWL)	Filtration Credit / Requirement (acre-feet)
<b>100P</b>	Filtration Basin	0.601	0.31
<b>200P</b>	Filtration Basin	0.338	0.34
<b>300P</b>	Filtration Basin	0.262	0.16
<b>400P</b>	Filtration Basin	0.368	0.20
<b>Total Site BMP Filtration Credits</b>			1.01
<b>Total Site Abstraction Requirement</b>	New Impervious Coverage	11.0	<b>1.0</b>



## 3) Wetlands

- a. The original 43.55-acre Friends of Beacon wetland delineation/boundary delineation was approved by the Elm Creek WMC June 24, 2016 (Hennepin Co. PID 2511923130003). At the time of the original delineation, the 5-acre parcel located within the site (Hennepin Co. PID 2511923130002) was not included in the review area. A delineation addendum was submitted as part of the Bass Lake Crossing wetland replacement plan to add this 5-acre exception parcel into this overall project review area.
- b. A notice for the wetland replacement plan was sent on August 1 requesting comments by August 31. No comments were received.
- c. As proposed, the project will have 0.3303-acre of jurisdictional wetland fill within 5 separate wetland locations. Permanent wetland impacts are proposed to be replaced (2:1 ratio) through the purchase of wetland bank credits from Robert Engstrom Bank site in Dayton (account 1518).
- d. A Technical Evaluation Panel (TEP) met on August 21<sup>st</sup> to discuss sequencing and project replacement proposals. The TEP recommended approval of the wetland replacement plan. Findings of the TEP are incorporated into this report.
- e. Final BWSR approval of wetland banking credits withdrawn and deposited to this project must be provided prior to any wetland impacts. In lieu of this, an escrow in the form of cash or auto renewal letter of credit to the Elm Creek Watershed Management Commission for the amount of \$75,000 is acceptable.
- f. For the benefits of the future property owners and the resource, we recommend wetland 4 enhancement/excavation have a vegetation restoration design incorporated into the project and that this be maintained during establishment (3-5 year period) by a company that specializes in native vegetation establishment. It should also be noted that wetland 4 water levels will be variable, depending on the local rainfall and runoff events. It will not have a permanent, controlled water level that most residents prefer in their back yards.
- g. Wetland Buffers. The Commission requires an average wetland buffer of 25 feet with a minimum buffer of 10'. Where graded slopes in buffer areas are steeper than 6:1, an increase in width of 5 feet for each one foot decrease in horizontal width is necessary. (i.e. 5:1 slope requires 30', 4:1 requires 35' etc.)
  - i. Wetland 4 requires ~12,800 sq. ft. of buffer, 12,869 proposed.
    1. Note; with the excavation/enhancement of this wetland, the wetland buffer strip should be moved to define the new NWL on the wetland and provide a minimum 12,800 sq. ft. of buffer with a 10' minimum width.
  - ii. Wetland 1 requires ~31,250 sq. ft. of buffer, 31,260 proposed.
  - iii. Wetland 201 requires ~29,791 sq. ft. of buffer, 30,228 proposed\*\*.
  - iv. Wetland 2 requires ~87,950 sq. ft. of buffer, 88,437 proposed\*\*.
  - v. Wetland 1 and wetland 4 require additional monumentation. The south end of wetland 2 at the junction of Hickory Lane and outlot C needs a buffer monument.
  - vi. \*\*Site plans show access roads to the ponds/filter basins that encroach into the buffer areas of wetlands 201(pond 200 & filter basin 202), wetland 2 (ponds 100, & 300 and adjoining filter basins). Retaining walls are also shown within the buffer. Minimum buffer widths (10') must stop at the bottom of the retaining walls and at the edge of the access roads. Access roads would be acceptable if the roads are constructed as pervious surfaces with native grass established on them.

## 4) Grading and Erosion Control

- a. Grading is proposed into the adjacent property (to the east) to establish Fir Lane connection to CR10 and drainage on Lots 12-16 Block 2. Permission from the adjoining landowner will be necessary for this work.
- b. Lots 154 to 156 in Outlot A will have standing water in their rear yard easement areas.

Water Quality (Nutrient and TSS) and Runoff Volume Summary				
Development Name: ..... Bass Lake Crossing, Corcoran				
Total Parcel Area: ..... 51.3 acres				
Total Lot Area: ..... 18.5 acres				
Total Buildable Area: ..... N/A acres				
Total New Impervious Area: ..... 11.0 Acres				
Review Month/Year: ..... August 2017				
Nearest Downstream Surface Water: ..... Rush Creek ~3,000 feet to the north and Cook Lake ~300 feet east. Cook Lake drains to Rush Creek.				
Condition	TP Load (lbs./yr) <sup>1</sup>	TSS Load (lbs./yr) <sup>1</sup>	Abstraction Volume Credit (ac-ft) <sup>2</sup>	Filtered Volume Credit (ac-ft) <sup>2</sup>
Pre-development (baseline) Load	36.6	NA	0.0	1.0
Post-development Without Mitigation		NA		
Post-development With Mitigation	24.0	-		
Net Change ("baseline" compared to "post-development with mitigation")	<b>-12.6</b>	<b>NA</b>		

**Recommendation:** Approval conditioned upon;

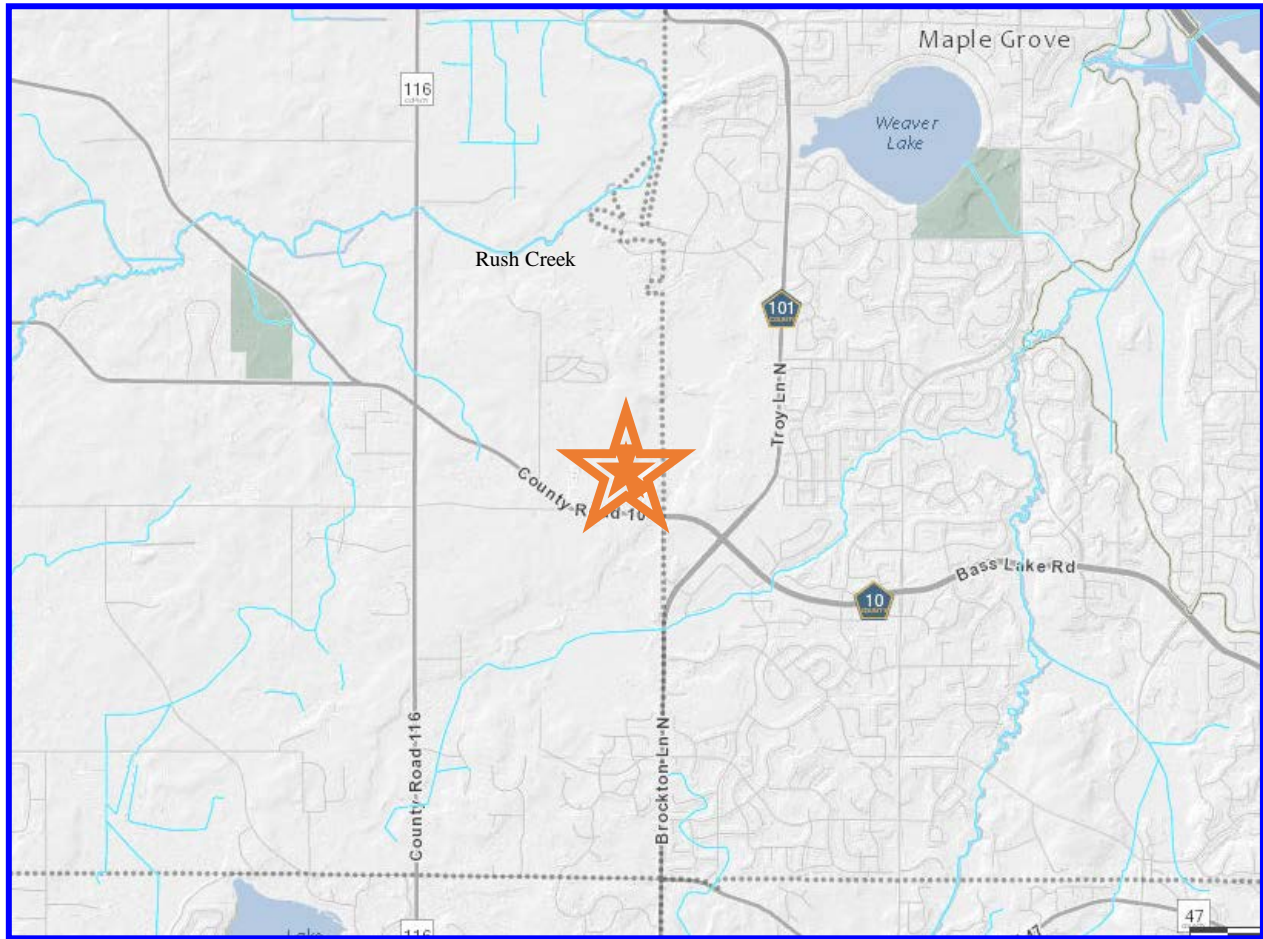
- 1) Wetland replacement credit purchase must be complete or \$75,000 cash or letter of credit escrow received (item 3e).
- 2) Buffer monumentation must meet ECWMC requirements (item 3g.v. & vi.).

Hennepin County  
 Department of Environment and Energy  
 Advisor to the Commission



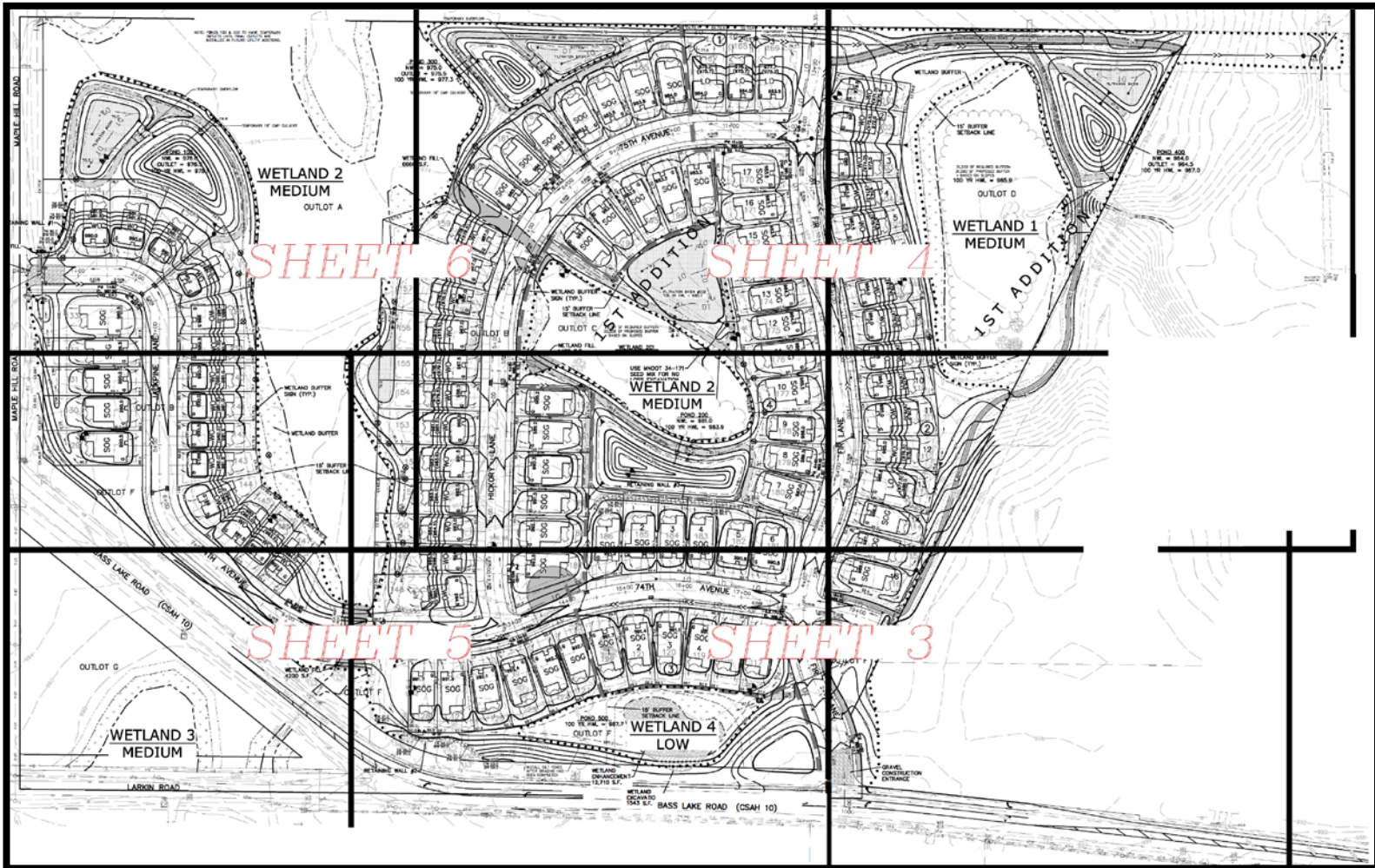
November 1, 2017

Location Map





## Grading Plan



# elm creek

## Watershed Management Commission

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Item 4b ap

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### **The Reserve of Medina Second Addition** **Medina, Project #2017-044**

**Project Overview:** The Reserve of Medina Second Addition is a 46-unit residential housing development located southeast of Hackamore Road and Pinto Drive (CR 116), immediately to the east of the First Addition of the Reserve of Medina Development. The project is proposed to take place on 18.19 acres of land. The site was rough graded with the initial approval of the Reserve of Medina Site. As such, the current land use is essentially prepared for single family development with rough graded road alignments and stormwater features already in place. This site was the subject of a previous review and approval by the ECWMC in July of 2013 as project 2013-002. Our review will be for compliance to the Commission's 3<sup>rd</sup> generation standards and rules, specifically with Rule E, Erosion and Sediment Control.

**Applicant:** Toll Brothers, Attn: Jon Henson, 14260 23<sup>rd</sup> Avenue North, Plymouth, MN 55447. Phone: 651-645-4197. Email: [jhenson@tollbrothersinc.com](mailto:jhenson@tollbrothersinc.com)

**Agent/Engineer:** Kimley-Horn and Associates, Attn: Michael Brandt, 2550 University Avenue West Suite 238N, Saint Paul, MN 55114. Phone: 651-643-0428. Email: [mike.brandt@kimley-horn.com](mailto:mike.brandt@kimley-horn.com)

#### **Exhibits:**

- 1) ECWMC Request for Plan Review and Approval received 10/4/2017
- 2) Project review fee was waived as this is a follow on phase of an earlier approved project.
- 3) Complete plan was received on 10/4/2017
- 4) The Reserve of Medina Second Addition, Site Development Plans (dated September 11, 2017, unsigned)
  - C0.0.....Cover Sheet
  - C1.0.....General Construction Notes
  - C2.0.....Site Signage and Plans
  - C3.0.....Grading Plan
  - C3.1.....Drainage Plan
  - C4.0.....Storm Water Pollution Prevention Plan Phase 1
  - C4.1.....Storm Water Pollution Prevention Plan Phase 2
  - C5.0.....Overall Utility Plan
  - C6.1-C6.4 Sanitary Sewer and Watermain Plans



C7.1-C7.6 Storm Sewer & Street Construction Plans  
C8.0-C8.3 Construction Details

- 5) Storm Water Management Plan, dated October 4, 2017

**Findings:**

- 6) A complete application was received on October 4, 2017. The initial 60-day review period expires December 3, 2017.
- 7) The site has previously been rough graded in accordance with the plans approved under ECWMC project #2013-002. The proposed plans were reviewed and found to be in general conformance with the previously approved permit. All rate controls, volume controls and abstractions, water quality, and floodplain requirements have been met as required by the previously issued permit.
- 8) Rule E. Erosion and Sediment Control will meet the Commission's requirements with minor revisions:
  - a) A final plan, dated and signed by a Professional Engineer licensed in Minnesota, must be submitted to the Commission and the City of Dayton.
  - b) A narrative, discussing whether these plans are covered by a previous NPDES Construction Stormwater Permit or a new one, should be included on the plan sheets. Discuss what, if any modifications are required to comply with current MPCA standards, if applicable.
  - c) The SWPPP must include a map identifying the receiving waters from the site. Elm Creek is located downstream of the project and is within 1 mile (although the path to Elm Creek is much longer than 1 mile), so the special provisions in the NPDES permit will apply to this project.
  - d) The plans should have an actual Statement of Estimated Quantities (SEQ) on the plans for at a minimum of all erosion control items to comply with NPDES permit requirements.

**Recommendation:**

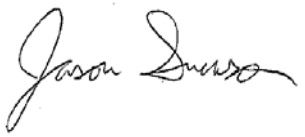
Staff recommends the approval of the project with the following conditions:

- **Provide revisions required under item #8**

Hennepin County  
Department of Environment and Energy

The Reserve of Medina Second Addition  
Medina, Project 2017-044  
November 1, 2017

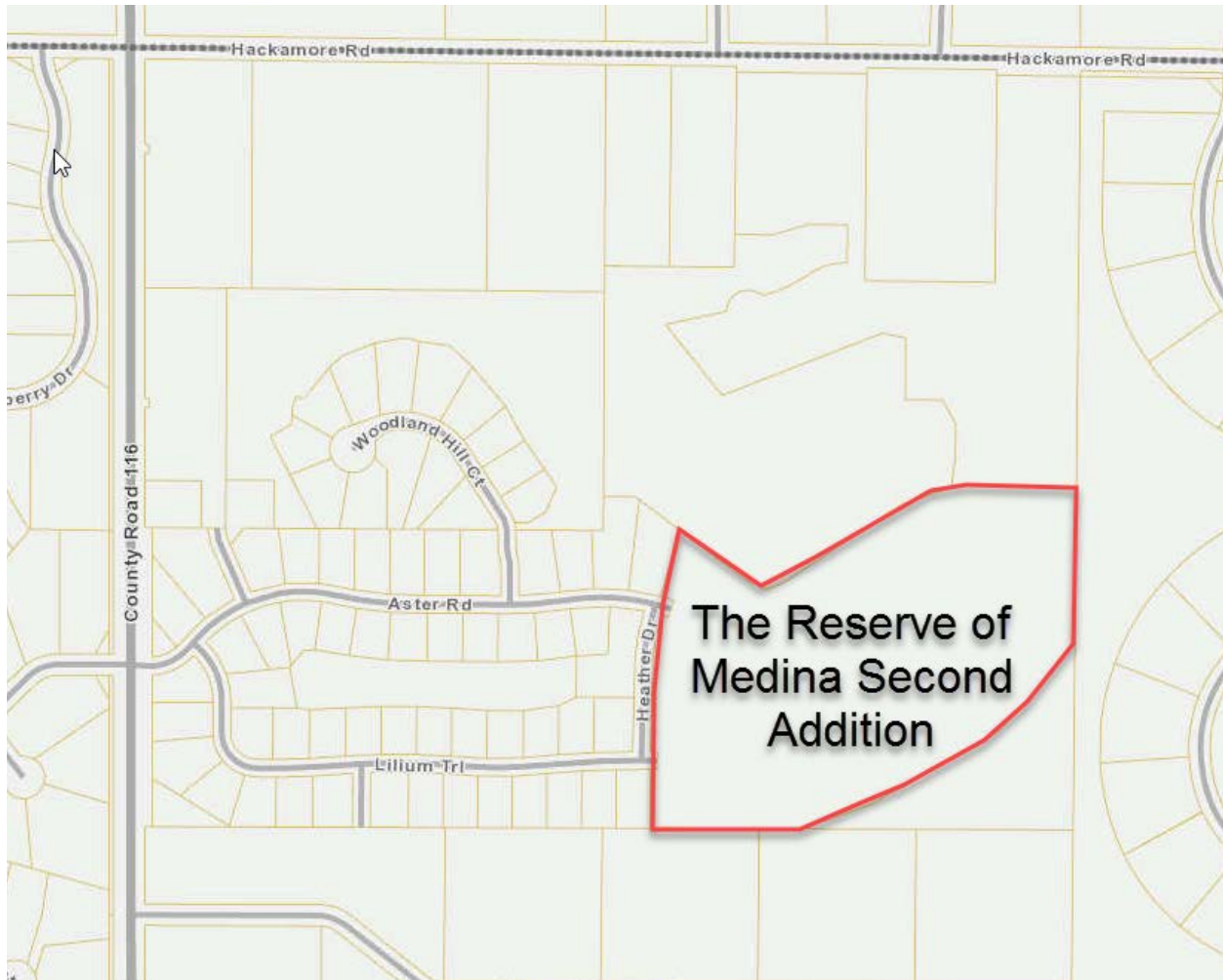
Page 4b ap  
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A handwritten signature in black ink, appearing to read "Jason Swenson". The signature is fluid and cursive, with the first name "Jason" being more prominent than the last name "Swenson".

November 1, 2017

Jason Swenson, P.E.  
Technical Advisor to the Commission

## SITE LOCATION



### AERIAL PHOTO



# Technical Memo



Item 6b-1

**To:** Elm Creek WMO Commissioners

**From:** Diane Spector, Wenck Associates, Inc.

**Date:** October 10, 2017

**Subject:** Rush Creek Headwaters SWA Status Report

This report details Rush Creek Headwaters Subwatershed Assessment project progress through September 2017. We are working toward a core team meeting the meeting the week of October 30-November 3 and a TAC meeting on November 8, 2017.

## Budget status:

Budget*	\$56,700.00
Through 8/31/17	\$4,582.10
9/1/17 – 9/30/17	\$8,019.82
Balance	\$44,098.08

\*For Wenck Associates services only, excluding JASS or Hennepin County services

## Activities September 2017:

- Completed hydroconditioning the Digital Elevation Model (DEM)
- Attended one Core Team meeting
- Facilitated one TAC meeting
- Compiled and review water quality and stream assessment data
- Compiled map books for Study Area and each subunit
- Completed RUSLE and Probable Tile Drained Areas geo-analysis

## Expected October 2017 Activities:

- Complete first draft of analysis with ACPF and PTMApp tools
- Send out “homework” for data collection by core team members
- Define management units and set up map books showing ACPF and PTMApp analysis
- Send out map books to core team for review prior to team meeting
- Prepare website content



# RUSH CREEK HEADWATERS SUBWATERSHED ASSESSMENT



## WHAT IS A SUBWATERSHED ASSESSMENT (SWA)?

A subwatershed assessment is a detailed evaluation of how much stormwater and pollutants such as sediment and nutrients runs off the land within an area of interest. A SWA uses a fine-scale model that can predict runoff down to the field level. Specialized software tools and field assessments can then help identify the best pollutant-reducing practices to implement and where they will have the most impact. After review with local landowners, the end result is a series of detailed maps showing the recommended practices, and a set of actions, costs, and pollutant reductions expected.

## WHY DO A SUBWATERSHED ASSESSMENT (SWA)?

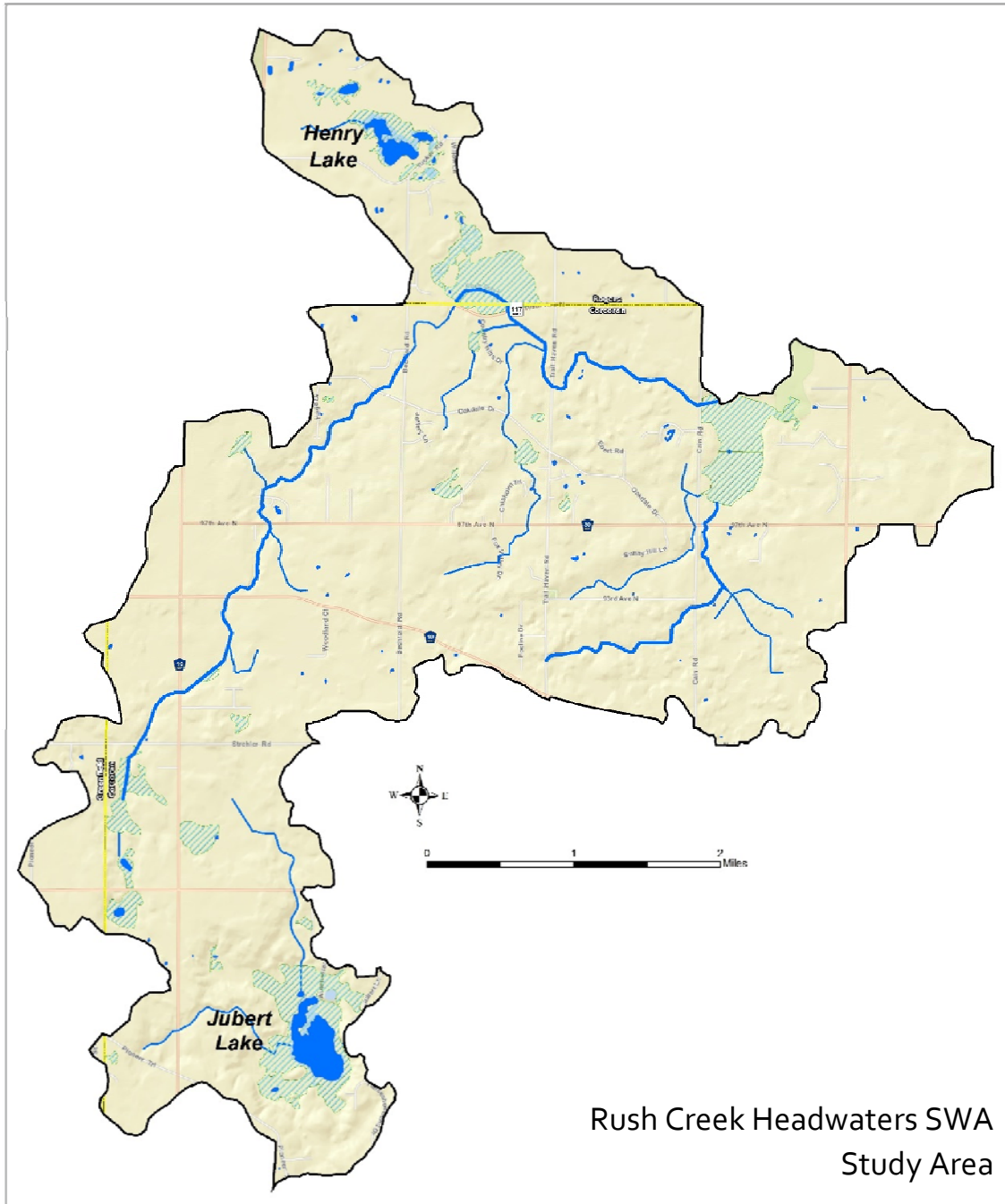
Several of the lakes and streams in the Elm Creek watershed do not meet state water quality standards and the cities are required to reduce the amount of pollutants conveyed to them. The subwatershed assessment (SWA) will “zoom in” on land in the area that is the headwaters for Rush Creek and the Rush Creek South Fork, including Henry Lake and Jubert Lake, to identify possible practices to reduce those pollutants, and then review those with land owners to see which are most feasible. The team completing the SWA includes city, watershed, hydrology, engineering and agricultural management specialists who know this area and will include landowners who can bring their practical knowledge and expertise to the SWA.

The SWA will look at both agricultural and developed areas, and will also include a review of Rush Creek itself for streambank erosion and opportunities for in-stream practices.

The results of the SWA will be used to help landowners, cities, and other interested parties find the best, most cost-effective ways to improve water quality in Rush Creek and Henry and Jubert Lakes. The SWA will also be helpful in applying for grant funding to help landowners and cities undertake voluntary pollutant-removing practices.



An example of practices that could be considered for this field, including contour buffer strips (purple lines), grass waterways (green lines), and small basins for water and sediment control (orange polygons and lines).



The Study Area is 19.75 square miles, most of which is in the city of Corcoran. Rush Creek rises from a wetland complex in the northwest quadrant of the County Road 19 and County Road 50 intersection. The Area includes about seven miles of Rush Creek. There are two lakes in the Study Area: Henry Lake in the city of Rogers, and Jubert Lake in Corcoran. Henry Lake is an Impaired Water, with excessive nutrient concentrations causing poor water quality. Jubert Lake is the headwaters of the Rush Creek South Fork. It, too, has poor water quality, but has not been officially designated an Impaired Water. Rush Creek is an Impaired Water for excess *E. coli* bacteria and low dissolved oxygen, and high nutrient levels are stressing the biotic community.





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*on water resources*

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University of Minnesota, St. Paul Student Center Theater

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**Featuring Kathy Lake,**  
Pollution Prevention Manager for the  
Madison Metropolitan Sewerage District



She's got the name and the impressive track record! Hear Kathy Lake of the Madison

Metropolitan Sewerage District discuss her innovative approach to address seemingly intractable, watershed-wide pollution issues. Ms. Lake is president of the Yahara Watershed Improvement Network (Yahara

WINS), which has cities, villages, towns, agricultural producers, and environmental groups all pulling together to reduce phosphorus and chloride to the iconic lakes Monona and Mendota.



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# Minnesota Wetland Conservation Act

## Notice of Application

Item 11 am

Local Government Unit (LGU) <b>Elm Creek Watershed Management Commission</b>	Address <b>c/o JASS 3235 Fernbrook Lane, Plymouth, MN 55447</b>
---	--

### 1. PROJECT INFORMATION

Applicant Name <b>Tony Maghrak</b>	Project Name <b>Maghrak Residence 21580 Sicora Ln, Corcoran</b>	Date of Application <b>Sept.19, 2017</b>	Application Number <b>2017-041W</b>
---------------------------------------	--	---	--

Type of Application (check all that apply):

<input checked="" type="checkbox"/> Wetland Boundary or Type	<input type="checkbox"/> No-Loss	<input type="checkbox"/> Exemption	<input type="checkbox"/> Sequencing
<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Banking Plan		

Summary and description of proposed project (attach additional sheets as necessary):

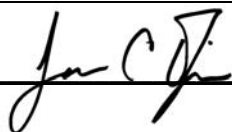
This property is a 4 acre parcel located at 21580 Sicora Lane, Corcoran, Hennepin County, Minnesota (Section 09, Township 119 North, Range 23 West). The wetland delineation was completed in accordance with the 1987 United States Army Corps of Engineers Wetland Delineation Manual and the published regional supplement to the Army Corps Wetland Delineation Manual, Midwest Region. Field work was completed on September 7, 2017. The wetland report is dated September 11, 2017. Two areas meeting wetland criteria were identified within the investigation extent. Wetland 1 is a Type 5, PABGx, open water wetland approximately 0.29 acres in size. Wetland 2 is a Type 1/2/3, PEM1C/B/A, seasonally flooded basin/fresh meadow/shallow marsh wetland with approximately 0.78 acres located on this property.
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### 2. APPLICATION REVIEW AND DECISION

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 3 provides notice that an application was made to the LGU under the Wetland Conservation Act as specified above. A copy of the application is attached. Comments can be submitted to:

Name and Title of LGU Contact Person <b>James C. Kujawa Technical Advisor to the Commission</b>	Comments must be received by (minimum 15 business-day comment period): <b>October 20; 4:30 PM</b>
Address (if different than LGU)	Date, time, and location of decision: <b>October 20, 5:00 p.m. 701 4<sup>th</sup> Ave. S., Suite 700 Minneapolis, MN 55415</b>
Phone Number and E-mail Address <b>612-348-7338 James.kujawa@hennepin.us</b>	Decision-maker for this application: <input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board or Council

Signature: \_\_\_\_\_



Date: September 27, 2017

### 3. LIST OF ADDRESSEES

- |                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <b>SWCD TEP member: (email only) Stacey. Lijewski@co.hennepin.mn.us</b>   |
| <input checked="" type="checkbox"/> | <b>BWSR TEP member: (email only) Ben Meyer (ben.meyer@state.mn.us).</b>   |
| <input type="checkbox"/>            | LGU TEP member (if different than LGU Contact):   |
| <input type="checkbox"/>            | DNR TEP member:   |
| <input checked="" type="checkbox"/> | <b>DNR Regional Office (email only) Becky.Horton@state.mn.us</b>  |
| <input type="checkbox"/>            | WD or WMO (if applicable):  |
| <input checked="" type="checkbox"/> | <b>Applicant: (email only)tmaghrak@comcast.net</b>  |
| <input checked="" type="checkbox"/> | <b>City of Corcoran: Brad Marten <a href="mailto:bmartens@ci.corcoran.mn.us">bmartens@ci.corcoran.mn.us</a></b> |
| <input checked="" type="checkbox"/> | <b>Members of the public who requested notice (notice only) Anderson Engineering, bhodapp@ae-mn.com</b>         |
| <input checked="" type="checkbox"/> | <b>Corps of Engineers Project Manager (notice only) Melissa.M.Jenny@usace.army.mil</b>                          |
| <input type="checkbox"/>            | BWSR Wetland Bank Coordinator (wetland bank plan applications only)   |

### 4. MAILING INFORMATION

- For a list of BWSR TEP representatives: [www.bwsr.state.mn.us/contact/WCA\\_areas.pdf](http://www.bwsr.state.mn.us/contact/WCA_areas.pdf)
- For a list of DNR TEP representatives: [www.bwsr.state.mn.us/wetlands/wca/DNR\\_TEP\\_contacts.pdf](http://www.bwsr.state.mn.us/wetlands/wca/DNR_TEP_contacts.pdf)
- Department of Natural Resources Regional Offices:

<u>NW Region:</u>	<u>NE Region:</u>	<u>Central Region:</u>	<u>Southern Region:</u>
Reg. Env. Assess. Ecol. Div. Ecol. Resources 2115 Birchmont Beach Rd. NE Bemidji, MN 56601	Reg. Env. Assess. Ecol. Div. Ecol. Resources 1201 E. Hwy. 2 Grand Rapids, MN 55744	Reg. Env. Assess. Ecol. Div. Ecol. Resources 1200 Warner Road St. Paul, MN 55106	Reg. Env. Assess. Ecol. Div. Ecol. Resources 261 Hwy. 15 South New Ulm, MN 56073

For a map of DNR Administrative Regions, see: [http://files.dnr.state.mn.us/aboutdnr/dnr\\_regions.pdf](http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf)

- For a list of Corps of Project Managers: [www.mvp.usace.army.mil/regulatory/default.asp?pageid=687](http://www.mvp.usace.army.mil/regulatory/default.asp?pageid=687)  
or send to:
- 

US Army Corps of Engineers  
St. Paul District, ATTN: OP-R  
180 Fifth St. East, Suite 700  
St. Paul, MN 55101-1678

- For Wetland Bank Plan applications, also send a copy of the application to:  
Minnesota Board of Water and Soil Resources  
Wetland Bank Coordinator  
520 Lafayette Road North  
St. Paul, MN 55155

### 5. ATTACHMENTS

In addition to the application, list any other attachments:

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <b>Maghrak Property Wetland Investigation Report dated September 11, 2017.</b> |
| <input type="checkbox"/>            |  |
| <input type="checkbox"/>            |  |