

elm creek Watershed Management Commission

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October 4, 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, October 11, 2017, at 11:30 a.m.** in the Mayor's Conference Room at Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN.

Please email Beverly at 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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AGENDA October 11, 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. Project Reviews – *also 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.
8. Elm Creek Watershed-wide TMDL.
9. Watershed Management Plan.
10. Communications.
 - a. Letter of Support – EC Stream Restoration Phase III in Champlin.*
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. | | | | | 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. | | | | | 2017-022 | CSAH 81 and CSAH101 & 13 Intersection Improvements, Rogers |
| 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. | | | | | 2017-031 | Bass Lake Crossing, Corcoran. |
| af. | | | | AR | 2017-034 | Plymouth Memory Care, Plymouth. |
| ag. | | | | | 2017-035 | Weston Woods of Medina PUD, Medina. |
| ah. | | | | | 2017-036 | Enclave at Elm Creek, Plymouth. |
| ai. | A | E | | | 2017-037 | Corcoran L-80 Lift Station MCES Project 808520, Corcoran. |
| aj. | | | | | 2017-038 | Bass Lake Estates, Corcoran. |
| ak. | | | | | 2017-039 | Rush Creek Apartments, Maple Grove. |
| al. | | | | | 2017-040 | Capitol Beverage, Rogers. |
| am. | | | | | 2017-041W | Maghrak Residence Wetland Delineation, Corcoran. |
| an. | | | R | | 2017-042 | Cavanaugh Concept Plan Preliminary Review, Medina. |
| ao. | | | | | 2017-043W | Kissner Drainage Repair, Corcoran. |
| ap. | | | | | | |
| aq. | | | | | | |
| ar. | | | | | | |
| as. | | | | | | |
| at. | | | | | | |
| au. | | | | | | |

A = Action item E = Enclosure provided I = Informational update available at meeting RPFI - 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 |

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TAC, Public Hearing, and Regular Meeting Minutes – September 13, 2017

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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. PTMAApp – 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.*

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

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

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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

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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.

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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.

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - 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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STAFF REPORT

October 5, 2017

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.

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 October 2016. All approval contingencies have been met with the exception of wetland banking withdrawals for 0.24 acres from bank account #1560. The Commission has a wetland replacement escrow in case this does not occur.

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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.

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 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

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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.*

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.*

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.*

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 Staff is working with them to finalize administrative approval.*

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

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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.

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 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.*

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 ¼ 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 this 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.*

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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 recommends the Commission approve this project contingent upon the project meeting the Commission wetland buffer requirements.

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 rulex 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.

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 will review this project for conformance to rulex 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.

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 pretains 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.

FINAL RECORDINGS ARE DUE ON THE FOLLOWING PROJECTS:

In August Staff requested updates from the cities on these 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.

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

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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 was received on October 5, 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; this 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.

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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 |
| Total | | | 95,349 | 241.4 | 22 | |



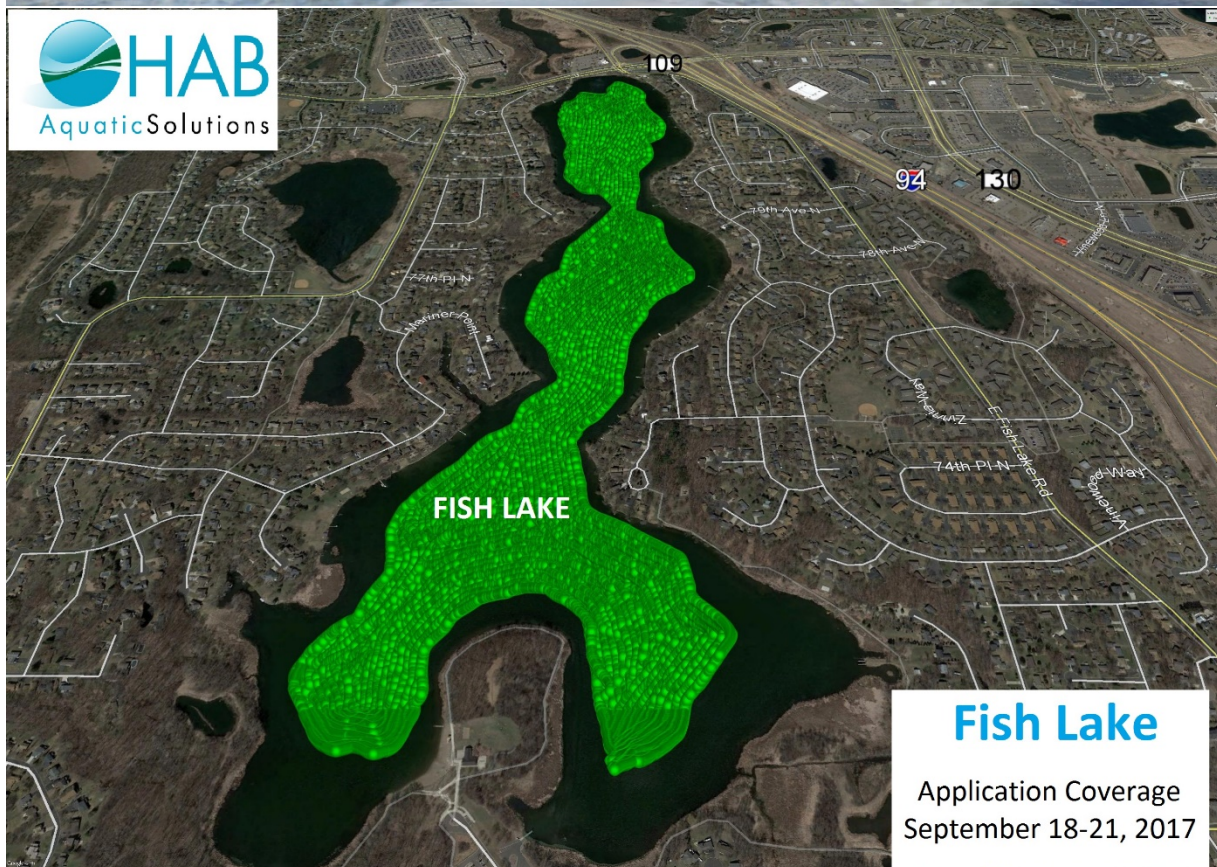
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RUSH CREEK HEADWATERS SUBWATERSHED ASSESSMENT

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 PTMApp 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.

UPDATES – KRISTEN BARTA.

Below are the updated buffer numbers.

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

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.

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E-mail: 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

Agent: Foth Infrastructure, Attn. Bill Johnson 8550 Hudson Boulevard N, Lake Elmo, MN 55042. Phone: 651-288-8604. Email: 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.

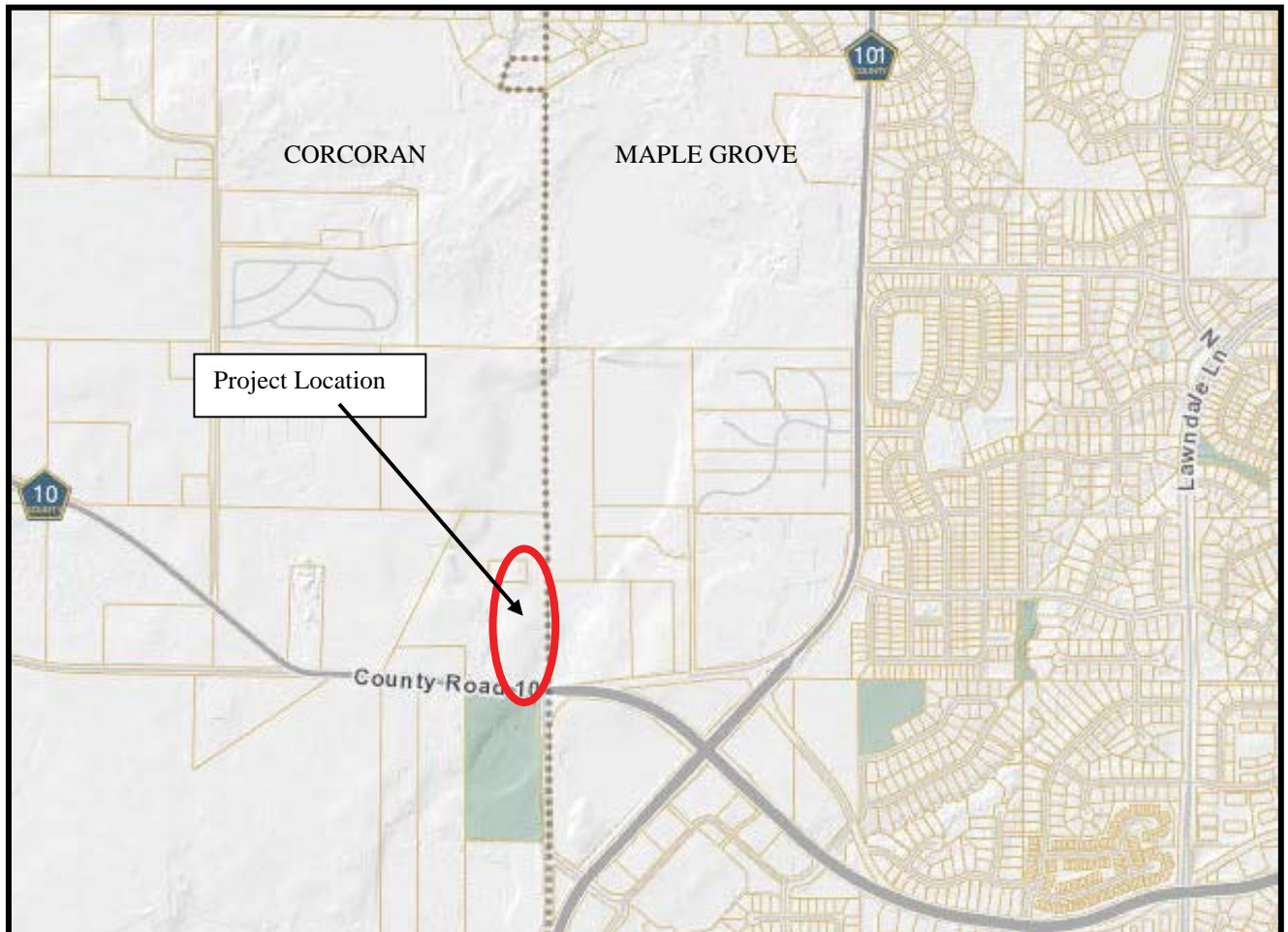
- 8) Floodplains on this parcel are associated with the Cook Lake Basin.
- a. FEMA classifies the Cook Lake basin as a Zone A floodplain. No base flood elevation has been determined.
 - b. The OHWL on this basin, as determined by the DNR, is an elevation of 942.1 (NGVD 29).
 - c. Lowest elevation proposed 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.

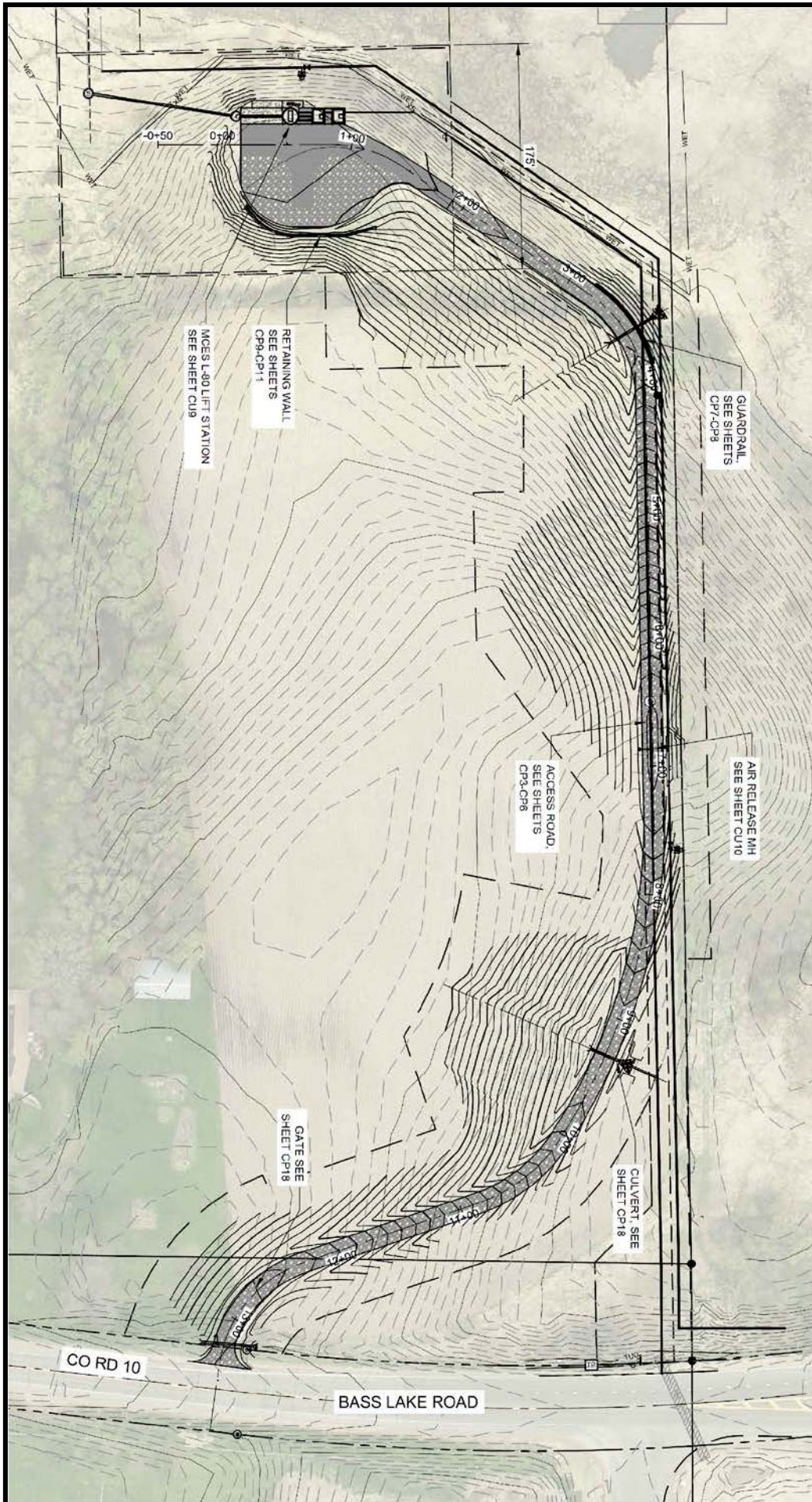
Recommendation: Approval contingent upon the project meeting the ECWMC wetland buffer requirements.

Hennepin County
Department of Environment and Energy
Advisor to the Commission



September 21, 2017





elm creek Watershed Management Commission

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October 3, 2017

Re: Elm Creek Stream Restoration Phase III

Dear DNR Grant Managers:

We are writing in support of the City of Champlin's proposal to the 2017 Conservation Partners Legacy (CPL) Grant Program Grant Program in Restoring the Elm Creek as part of the Elm Creek Restoration Project, Phase III. The Elm Creek Watershed Management Commission is partnering with the City of Champlin on several Capital Improvement Projects on Elm Creek to improve water quality and aquatic habitat.

The Elm Creek Commission is in the midst of a watershed wide transformation with the adoption of new rules and standards. These rules and standards require improved buffers, Ground Water Recharge through Infiltration, Directives Towards Meeting Pollutant Load Reductions, Improved Monitoring and a Capital Improvement Plan for Restoration Projects.

The Elm Creek Commission has been diligent in monitoring the lakes and streams within the Elm Creek watershed and we support projects that improve water quality and restore natural stream attributes. Elm Creek is an impaired water with low dissolved oxygen. Restoring the streambanks and providing habitat structure, including root wads, boulder vanes, toe-wood, boulder clusters and rock riffles with various substrate will reduce downstream sedimentation and provide habitat improvements to enhance aquatic species including sensitive species such as the Blanding's Turtle.

This project will improve water quality and the restore native vegetation and aquatic habitat and will provide a greater public benefit to the region and the entire Elm Creek watershed.

Sincerely,



Doug Baines
Chair

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