

elm creek Watershed Management Commission

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Technical Advisory Committee and Regular Meeting Minutes **CORRECTED** March 8, 2017

I. A meeting of the **Technical Advisory Committee (TAC)** for the Elm Creek Watershed Management Commission was convened at 10:01 a.m., Wednesday, March 8, 2017, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN.

In attendance were: Susan Nelson, Wenck Associates, Corcoran; Rick Lestina, Maple Grove; Kaci Fisher, Hakanson-Anderson, Medina; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; Ali Durgunoğlu, James Kujawa and Kirsten Barta, Hennepin County Dept. of Environment and Energy (HCEE); Rich Brasch, Three Rivers Park District (TRPD); Jeff Weiss, Barr Engineering; and Judie Anderson and Amy Juntunen, JASS.

Not represented: Champlin and Dayton.

Also present: Sharon Meister, Corcoran; Doug Baines, Dayton; and Elizabeth Weir, Medina.

A. Motion by Kujawa, second by Nelson to approve the **revised meeting agenda**.* *Motion carried unanimously.*

B. Motion by Kujawa, second by Durgunoğlu to approve the **minutes of the January 11, 2017 TAC meeting**.* *Motion carried unanimously.*

C. **Model Manure Management Ordinance.** The Commission's Third Generation Watershed Management Plan states as one of its Water Quality goals that the member cities shall adopt a manure management ordinance using the Commission's model ordinance for guidance, or adopt other standards and practices that will accomplish the objective of reducing phosphorus loading from new livestock operations. Currently the Commission does not have a model manure management ordinance. At a previous TAC meeting the members identified three elements that should be considered when writing such an ordinance. Barta spoke to these elements.

1. Facilitate transition from agricultural to rural residential land use.
 - a. Horses/chickens/other animals where there was no livestock before— follow animal expansion recommendations from Pioneer Sarah ordinance
 - b. New animal operations with grazing animals should have a proper grazing plan/appropriately designed feedlot
 - 1) Ensure there is no excessive grazing and erosion
 - 2) Proper siting and design of feedlot and barn structures will allow for water flow on site to be directed away from the additional nutrients from animal operation
 - c. Where there was livestock before, proper disposal procedures should be followed when sealing and cleaning waste pits
 - d. For cropped fields going into housing, temporary cover crop or other vegetation should be put in until lawn/pasture is established
 - e. Topsoil should be conserved on site as much as possible
 - f. Maintain buffers along waterways as needed
 - g. Wetland restoration where feasible

2. What BMPs should be used when animals are present? Manure management should be practiced appropriately depending on the animal species – if enough animal units are present, MPCA feedlot rules must be followed.

- a. Composting – especially horse operations
- b. Livestock exclusion from streams, wetlands, and other sensitive areas
- c. For cattle, swine, and poultry proper manure holding facilities should be established
 - 1) Wastewater filter strips should be established below barn and feedlot facilities
 - 2) Scraping of feedlots should be practiced regularly and the scrapings composted.

3. How are load reduction credits quantified? Impacts will be measured using University of Minnesota, BWSR, and MPCA nutrient load calculation tools, RUSLE, and other programs/tools as needed and appropriate

4. How will reductions from land conversion be measured? Depends on whether land conversion reduces nutrient production or increases it. See 3 for tools.

Included in the meeting packet for reference was a copy of the Pioneer-Sarah Creek Commission's Livestock Management Policy.*

How will proposed ordinance feed into TMDL? The way the TMDL is structured most areas are out of the MUSA and will be covered under load allocations. Areas within MUSA will not be able to have livestock. It will be up to the cities to allow livestock in the areas where a regulated conveyance system exists. Hopefully, cities will be looking for overall water quality improvement. There is an evolving definition of regulated conveyance facility.

D. Rules pertaining to filtration, infiltration and abstraction during stormwater management review. Staff has requested from the member cities their stormwater pond, infiltration, filtration, and runoff volume abstraction rules and standards. Responses have been received from the member cities and are being compiled and reviewed by the Commission's technical staff.

When the Minnehaha Creek Watershed District goes through sequencing and filtration is the only option, they require 2x filtration. This provides for elevated removal of TSS and TP. An iron-enhanced filtration system may receive a higher credit than regular filtration.

Technical staff are looking for a hierarchal list.

1. Water Reuse. Water reuse is another substitute for abstraction that is not currently in the Commission's rules. Requiring abstraction through water reuse prior to other proxy methods could be added to the rules, though it would not be a minor plan amendment. Concerns about city requirements for inspections were raised. The Commission could require operations & maintenance agreements with annual inspections for the irrigation systems to assure that water reuse will occur in residential developments. Weir will research how Medina ensures reuse is occurring.

2. Infiltration/Filtration/Credit Sequencing. Currently buffers, preservation areas and compost amendment are all equal in credit for abstraction. The bio-filtration credit should be removed unless associated with a pond. The filtration credit could be increased from 1:1 to incentivize developers to investigate other options. Iron-enhanced filtration credits should be added. Water reuse will be further researched for inclusion. A maximum credit per sequencing BMP may also be considered. The detachment credit will be further defined for length of travel over vegetated area for sheet and channel flows.

Staff will create a credit scenario for demonstration at the next TAC meeting, potentially a tiered system with 50% abstraction done by one suite of BMPs and the other 50% by less quantifiable options.

3. Pre and post development TSS/TP loans and runoff volume. Kujawa noted that P8 modeling is acceptable by MPCA, but technical staff prefers to use the MIDS or PondNet/NURP models for TSS/TP reduction modeling. Technical staff does not use P8 modeling and the many variables can be used to obtain non-reliable results. Staff will compare submitted P8 modeling to PondNet. Brian Vlach of TRPD can also train staff on P8 modeling.

E. Cost share policy. Postponed to next TAC meeting.

F. Prioritizing special projects other than SWAs.* Postponed to next TAC meeting.

G. Calls for additions/revisions to Commission's current CIP.* Two additions and one revision to the CIP have been received. Corcoran requested the Stone's Throw wetland restoration be moved from 2017 to 2018. Plymouth requested the restoration of Elm Creek Reach D, and Rogers requested Ag BMPs around Cowley and Sylvan Lakes be added to the CIP for 2018 implementation. Nelson noted that she is unable to locate any details about the Stone's Throw project. Anderson will send her the Exhibit A description of the project.

Motion by Scharenbroich, second by Lestina to recommend to the Commission the following: 1) adjust the name of the Rogers project to Cowley/Sylvan Connection BMPs and add the project as a placeholder to the CIP for 2018, 2) add the Plymouth Reach D restoration project to the CIP for 2018, and 3) revise the date on the Stone's Throw project. *Motion carried unanimously.*

H. Next meeting/Adjournment. The next TAC meeting will be held prior to the next regular meeting, April 12, 2017 at 10:00 a.m. The TAC meeting was adjourned at 11:30 a.m.

II. A regular meeting of the Elm Creek Watershed Management Commission was called to order at 11:39 a.m., Wednesday, March 8, 2017, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN by Chairman Doug Baines.

Present were: Gerry Butcher, Champlin; Sharon Meister, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Fred Moore, Plymouth; Kevin Jullie, Rogers; Ali Durgunoğlu, James Kujawa and Kirsten Barta, Hennepin County Dept. of Environment and Energy (HCEE); Rich Brasch, Three Rivers Park District (TRPD); Jeff Weiss, Barr Engineering; and Judie Anderson and Amy Juntunen, JASS.

Also present: Brad Martens, Corcoran; Lisa Vertelney and Ben Scharenbroich, Plymouth; and Andrew Simmons, Rogers.

A. Motion by Weir, second by Jullie to approve the **revised agenda.*** *Motion carried unanimously.*

B. Motion by Weir, second by Butcher to approve the **minutes*** of the February 8, 2017 regular meeting. *Motion carried unanimously.*

C. Motion by Moore, second by Weir to approve the March **Treasurer's Report and Claims*** totaling \$10,984.91. *Motion carried unanimously.*

Motion by Weir, second by Jullie to encumber the funds remaining in the 2016 Studies/Project ID/SWA account for that purpose. *Motion carried unanimously.* (Pre-audit, the funds remaining in that account total \$28,515.80.)

III. Open Forum.

No one wished to speak on matters not on the agenda.

IV. Action Items.

A. Project Review 2016-052 The Woods at Rush Creek, Maple Grove.* This project combines five parcels (40 acres total) into 73, single family residential lots. It is located on CR 101 south of the Rush Creek Golf Course and north of the Lord of Life Lutheran Church. The majority of the site drains into Cook Lake which is located immediately west of this development. The Commission's review is for compliance with the Commission's rules D (stormwater management), E (erosion control), G (wetland alteration) and I (buffer strips). In their findings dated February 15, 2017, Staff recommends approval of the project contingent upon; a) Biofiltration pond approval in lieu of abstraction or abstraction credit alternatives; b) The Biofiltration pond must have an operation and maintenance plan developed, approved by the Commission and City and recorded on the land title; and c) A buffer monument location plan must be provided and approved. Motion by Weir, second by Jullie to approve Staff's recommendations. *Motion carried unanimously.*

B. Project Review 2017-002 RDO Site Plan, Dayton.* 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. Staff recommends the approval of the project with the following revisions: a) A note on

the plans that the soil amendment mix shall be a mix of 25% compost and 75% sand; b) The type of storm sewer line running along the center line of the swale shall be specified as either solid or perforated; and c) A final, dated plan signed by a professional engineer licensed in the State of Minnesota must be submitted to the Commission and the City. Motion by Moore, second by Trainor to approve Staff's recommendations. *Motion carried unanimously.*

C. Project Review 2017-008 TH169 Reconstruction, Champlin.* The stormwater review will be done by the West Mississippi WMO because over three-fourths of the work will be done in that watershed. This Commission's review is for floodplain impacts and mitigation. No WCA jurisdictional wetlands will be impacted by this project. In their findings dated March 2, 2017, Staff recommended approval conditioned upon receiving signed final plans when they become available. Motion by Weir, second by Butcher to approve Staff's recommendation. *Motion carried unanimously.*

D. 2017 Work Plan.* The members reviewed Staff's March 1, 2017 memo that summarizes the projected work plan for 2017. Brasch proposed two additional monitoring programs for 2017.

1. Monitor the Mill Pond now that it is back up to full pool. This would be the "additional water body" referred to in #3. \$3,200 to do the four sentinel lakes, another \$800 to do the Mill Pond, \$6,300 to do the three stream sites (flow only), and \$1,000 for the synoptic survey of Diamond Creek. The synoptic survey was on the program last year but could not be completed due to flow conditions. The Commission was not charged for the survey.

2. Perform a longitudinal survey of upper Rush Creek over 4-5 different flow conditions and at 4-5 different locations to support the Upper Rush Creek subwatershed assessment. Estimated cost for this effort would be \$5,000.

Motion by Weir, second by Trainor to accept the 2017 Work Plan including the two additional monitoring programs described above, encumber \$1,000 from the 2016 Stream Monitoring budget for the synoptic survey, and earmark \$5,000 from the Water Monitoring and Contingency budgets for the longitudinal survey. *Motion carried unanimously.*

Staff will continue to work to complete some missing details, after which it will be incorporated into the 2016 Annual Activity Report.

A final draft of the 2016 Work Plan* was also included in the meeting packet.

E. Two lakes are included in the 2017 budget for **CAMP monitoring**. The Citizen Assisted Monitoring Program is sponsored by Metropolitan Council. In 2016 Cowley and Jubert lakes were monitored. Kujawa will seek volunteers for this year's program, likely Jubert plus one more.

V. Watershed Management Plan.

The members received Table 4.5* of the Third Generation Plan. It is an updated version of the **Capital Improvement Program (CIP)** as amended on May 11, 2016. Staff contacted the cities requesting their updates and additions to the CIP. Two additions and one revision were received. They were reviewed by the Technical Advisory Committee (TAC) at its meeting earlier today.

A. 2017 CIP-PL-01 Elm Creek Stream Restoration Reach D was submitted by the City of Plymouth. Proposed for construction in 2018, the Commission's share of the \$850,000 project is \$212,500. The TAC recommended approval of this project for inclusion on the CIP.

B. 2017 CIP-RO-1 Ag BMPs was submitted by the City of Rogers. Proposed for construction in 2018, the Commission's share of this \$300,000 project is \$75,000. To be more definitive, this project will be renamed the Cowley-Sylvan Connections BMPs. The TAC recommended approval of this project for inclusion on the CIP.

C. The City of Corcoran has requested that the **Stone's Throw Wetland Project** be moved from 2017 to 2018. The Commission's share of this \$450,000 project is \$112,500. The TAC recommended approval of this revision to the CIP.

Motion by Weir, second by Butcher to approve these updates to the Commission's CIP.

VI. Elm Creek Watershedwide TMDL. Approval of the TMDL by the Environmental Protection Agency is expected in mid-March.

VII. Grant Opportunities and Updates.

A. The Board of Water and Soil Resources (BWSR) has approved Clean Water Grant funding for the **Internal Phosphorus Loading Control in Fish Lake project** in the amount of \$200,000. The Commission's share will be \$75,000. The City and Lake Association portions will be determined in April. Chairman Baines signed the contract agreement last month. Staff is awaiting the fully executed agreement. Staff has drafted a cooperative agreement between the parties that is currently being reviewed.

B. BSWR has also approved Accelerated Implementation Grant funding for the **Rush Creek Headwaters Subwatershed Assessment project** in the amount of \$50,280. The local match will total \$12,570. Chairman Baines signed the contract agreement in February. Staff is awaiting the fully executed agreement.

VIII. Education.

A. The **Plymouth Home Expo** is April 7-8, 2017. Volunteers are being sought to "man" the Commission's booth.

B. The next **WMWA meetings** are scheduled for 8:30 a.m., Tuesday, March 14, and Tuesday, April 11, 2017, at Plymouth City Hall. Commissioners are encouraged to attend.

IX. New Business.

Election of officers. The current officers have been nominated for re-election. They are Baines, Chair; Weir, Vice Chair; Bill Walraven, Champlin, Secretary; and Moore, Treasurer. Hearing no further nominations, motion by Butcher, second by Jullie to elect these individuals to serve in 2017. *Motion carried unanimously.*

X. Communications.

"Stream Buffers 101," January 13, 2017, *Stormwater Weekly.** Printed from Forester Network.

XI. Other Business.

A. The following **projects** are discussed in the March 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. 2015-013 Wayzata High School, Plymouth.
6. 2015-020 Strehler Estates, Corcoran.
7. 2015-030 Kiddiegarten Child Care Center, Maple Grove.
8. 2016-002 The Markets at Rush Creek, Maple Grove.
9. 2016-004 Park Place Storage Site Plans, Corcoran.
10. 2016-005W Ravinia Wetland Bank, Corcoran.
11. 2016-014 Balsam Apartments, Dayton.
12. 2016-018 Cambridge Park, Maple Grove.
13. 2016-019 Just for Kix, Medina.
14. 2016-021 Diamond View Estates, Dayton.
15. 2016-022 AutoZone, Maple Grove.
16. 2016-026 Faithbrook Church, Dayton.
17. 2016-038 AutoMotorPlex, Medina.
18. 2016-039 Fields at Meadow Ridge, Plymouth.
19. 2016-040 Kinghorn 4th Addition, Rogers.
20. 2016-041 Bartus Subdivision, Plymouth.
21. 2016-045W Brothers Mini Storage Wetland Replacement Plan, Corcoran.
22. 2016-047 Hy-Vee Maple Grove #1, Maple Grove.
23. 2016-049 Medina Senior Living, Medina.
24. 2016-052 The Woods at Rush Creek, Maple Grove.*

25. 2017-001 Sundance Road Pond Excavation, Corcoran.
26. 2017-002 RDO Site Plan, Dayton.*
27. 2017-003 Brayburn Trail EAW, Dayton.*
28. 2017-004W Cartway Trail, Champlin.
29. 2017-005 Creekside Hills, Plymouth.
30. 2017-006 Summers Edge II, Plymouth.
31. 2017-007 Downtown Corcoran Ditch Maint/Cimarron Circle Drainage Maintenance, Champlin.
32. 2017-008 TH169 Reconstruction, Champlin.*

B. Adjournment. There being no further business, motion by Weir, second by Jullie to adjourn. *Motion carried unanimously.* The meeting was adjourned at 12:49 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
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