

**MINUTES
Regular Meeting
December 14, 2017**

(Action by the SCWMC appears in blue, by the WMWMC in green and shared information in black.
*indicates items included in the meeting packet.)

I. A joint meeting of the Shingle Creek Watershed Management Commission and the West Mississippi Watershed Management Commission was called to order by Shingle Creek Chairman Andy Polzin at 12:46 p.m. on Thursday, December 14, 2017, at the Clubhouse at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: David Mulla, Brooklyn Center; John Roach, Brooklyn Park; Burton Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Gary Anderson, Minneapolis; Bill Wills, New Hope; Harold E. Johnson, Osseo; Andy Polzin, Plymouth; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Robbinsdale.

Present for West Mississippi were: David Mulla, Brooklyn Center; John Roach, Brooklyn Park; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; Harold E. Johnson, Osseo; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS.

Also present were: David Masin and Andrew Hogg, Brooklyn Center; Steve Chesney and Mitch Robinson, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Rick Lestina, Maple Grove; Bob Grant and Shawn Markham, New Hope; Leah Gifford and Ben Scharenbroich, Plymouth; and Richard McCoy and Marta Roser, Robbinsdale.

II. Agendas and Minutes.

Motion by Wills, second by Jaeger to approve the **Shingle Creek agenda**. * Motion carried unanimously.

Motion by Jaeger, second by Johnson to approve the **West Mississippi agenda**. * Motion carried unanimously.

Motion by Wills, second by G. Anderson to approve the **minutes of the November regular meeting**. * Motion carried unanimously.

Motion by Butcher, second by Johnson to approve the **minutes of the November regular meeting**. * Motion carried unanimously.

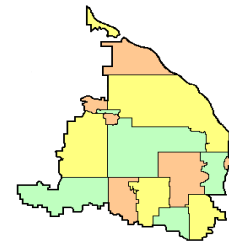
III. Finances and Reports.

A. Motion by Jaeger, second by G. Anderson to approve the **Shingle Creek Treasurer's Report**. * Motion carried unanimously.

Motion by Jaeger, second by Wills to approve the **Shingle Creek December claims**. * Claims totaling \$63,219.39 were approved by roll call vote: ayes – Mulla, Roach, Orred, Jaeger, G. Anderson, Wills, Johnson, and Polzin; nays – none; absent - Robbinsdale.

B. Motion by Butcher, second by Roach to approve the **West Mississippi Treasurer's Report**. * Motion carried unanimously.

Motion by Jaeger, second by Butcher to approve the **West Mississippi December claims**. * Claims totaling \$11,665.81 were approved by roll call vote: ayes – Mulla, Roach, Butcher, Jaeger, and Johnson; nays – none.



IV. Open Forum.

V. Project Reviews.

A. Project Review WM2017-010 Rainbow Child Care, Champlin. Construction of a 10,793 SF child care facility with associated site work on a 1.32 acre site located at approximately 11540 Theatre Drive North. Following development, the site will be 53% impervious with 30,613 SF (0.7 acres) of impervious surface, an increase of 30,613 SF. A complete project review application was received on November 6, 2017.

To comply with the Commission's water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 80-85% TSS removal and 50-60% TP removal. If a sump is used the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

The project is located within the Elm Creek Commons project area and all water leaving this area has been accounted for by three regional NURP ponds (project review WM2000-10). Runoff from the site is proposed to be routed to one of these NURP ponds, which is located directly south of the site. This pond, called Pond 2 in the Elm Creek Commons plan, treats water quality from the site and from the Buffalo Wild Wings site to the north. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. As previously discussed, the project is located within the Elm Creek Commons project area, and all water leaving the Elm Creek Commons area has been accounted for by three regional NURP ponds. Runoff from the site is routed to a NURP pond directly south of the site. Runoff from the site is proposed to be routed to one of these NURP ponds, meeting Commission rate control requirements.

Commission rules require the site to infiltrate 1 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 30,613 SF, requiring that 2,551 CF is infiltrated within 48 hours. If soils are not conducive to infiltration, this volume can be filtered instead. Soils at the site are clayey and not conducive to infiltration. Therefore, the applicant proposes to use a Contech StormFilter to provide filtration of runoff from the 0.37-acre parking lot, which totals 1,343 CF of runoff for a 1-inch storm. The StormFilter, which consists of six 27-inch cartridges that, combined, have a flow rate of 1,082 CF/second, can filtrate this volume in 48 hours. Additional runoff from the site consists of roof runoff. Filtration is not proposed for this roof runoff, but this runoff is relatively clean. The applicant is treating the parking and drive areas with this device located in the northeast corner of the parcel. The applicant meets Commission volume control requirements.

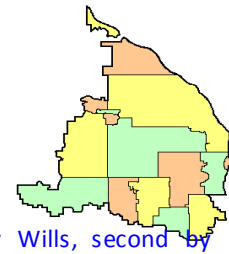
The NWI does not identify any wetlands on site. There are no Public Waters or floodplain on this site. The low floor elevation of the building is 891.25 feet, which is at least two feet higher than the high-water elevation of the NURP pond (885.6 feet), meeting Commission requirements.

An erosion control plan was submitted with the project review and includes a rock construction entrance, perimeter silt fence and inlet protection. The erosion control plan meets Commission requirements.

A public hearing on the project was conducted on September 11, 2017 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

Motion by Jaeger, second by Butcher to advise the City of Champlin that approval of this project is granted contingent on a maintenance agreement for the StormFilter being drafted between the City of Champlin and the applicant. *Motion carried unanimously.* It was requested that Staff verify the location of the outlet of the StormFilter. [Following the meeting it was confirmed that the StormFilter was installed to treat roof and driving surfaces meeting Commission requirements.]

B. Metro Blue Line Light Rail Train ("BLRT") Extension Project.* Included in the meeting packets are letters from the Metropolitan Council transmitting Amendment Number One for each of the Commissions, whereby the termination dates of the project contracts, originally stated as December 31, 2017, are extended to December 31, 2019.



1. Amendment Number One, Contract No. 151072. Motion by Wills, second by G. Anderson to approve the amendment. *Motion carried unanimously.*

2. Amendment Number One, Contract No. 151072A. Motion by Jaeger, second by Butcher to approve the amendment. *Motion carried unanimously.*

VI. Watershed Management Plan.

The Third Generation Watershed Management Plan states that the Commissions will annually review progress toward their Third Generation goals, and that this evaluation will become part of the Annual Report. Since the Third Generation Plan was adopted, BWSR adopted revised Minnesota Rules 8410 that requires WMOs to review progress every two years.

The purpose of the annual review* is first to determine progress towards the goals, and second to be sure the Commissions stay on track to reach them. The annual review is also an opportunity to discuss whether the goals and actions in the Plan still make sense or if they should be considered for modification or enhancement, perhaps to add in new priorities. Ideally, this annual review is also an opportunity to start thinking about the next year's work plan.

A. Some highlights of the past year include:

1. Construction of biochar- and iron-enhanced sand filters on three ponds in the two watersheds, and continued effectiveness monitoring, including partnering with Dr. Beth Fisher to perform specialized monitoring of water quality and effectiveness of the filter media.

2. With the City of Crystal applied for and won two grants from the Metropolitan Council totaling \$350,000 for the Becker Park Infiltration Project.

3. Applied for a \$267,040 Clean Water Fund grant for the proposed Bass and Pomerleau Lakes Alum Treatment Projects.

4. Working with the DNR and FEMA on a work plan to update the Special Hazard Areas in the watershed.

5. Completed eight reviews of development/redevelopment projects and acted as the WCA LGU for five wetland delineation/wetland type reviews.

6. Completed ten reviews of development/redevelopment projects and acted as the WCA LGU for four wetland delineation/wetland type reviews.

7. Continued to work cooperatively with the Metropolitan Council and Hennepin County on the Blue Line LRT Extension project, and with the Metropolitan Council on the C Line Bus Rapid Transit project.

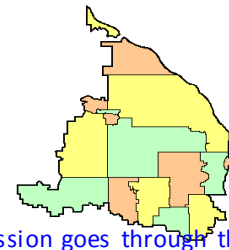
8. Heard two special speakers during the year: Steve Woods from the Freshwater Society speaking about the evolution of stormwater management in the Metro Area, and Dr. Ranjan Muthukrishnan about his research regarding the invasive species starry stonewort.

The tables* attached to Staff's memo show each Third Generation Plan goal, noting progress to date and expected completion. Each of the strategic actions identified for the goal areas are also shown, noting work completed in 2017 and to date, as well as expected completion as general status.

B. For the most part the Commissions are on track to meet goals, with the following exceptions:

1. Work has not yet begun on the "sustainable water budget" project. There have been some discussions with USGS staff about this, but a funding source for this project has not yet been identified.

2. While Lower Twin, Ryan, and Schmidt Lakes have been delisted from the draft Impaired Waters list, there is a stretch goal of achieving delisting for Bass, Eagle, Crystal, and Middle Twin Lakes. As Upper Twin improves, Middle Twin is likely to reach the state standard. Some BMPs have been or will be implemented for Bass and Crystal, but it is not clear yet whether that will be sufficient for delisting or if more needs to be done.



3. P8 models for the lakesheds are being reviewed as the Commission goes through the TMDL review process, an ongoing task.

4. The goal to have completed subwatershed assessments for at least 25% of that part of the watersheds that developed prior to Commission rules in 1984 is **on track for West Mississippi**, but **only 5% of pre-1984 development Shingle Creek has been completed**. A more achievable goal would be 10%.

5. Regarding the goal of maintaining the functions and values of priority wetlands, the Commissions have not established a process by which that would be evaluated.

Motion by G. Anderson, second by Mulla to accept the 2017 progress assessment with the inclusion of progress toward education goals. Motion carried unanimously.

Motion by Jaeger, second by Johnson to accept the 2017 progress assessment with the inclusion of progress toward education goals. Motion carried unanimously.

VII. Water Quality.

Staff have been contacted by Steve Woods of the Freshwater Society, which has been facilitating a loose coalition of organizations and individuals called **StopOverSalting (SOS)**.* Their primary purpose is to promote and lobby for legislation which would limit the liability of salt application contractors that are certified by the MPCA through its training program.

The coalition is looking for additional parties to support this effort. The Minnesota Association of Watershed Districts (MAWD) approved a resolution* in support of limited liability at its annual meeting Nov 30-Dec 1. MAWD represents watershed districts throughout the State of Minnesota. The resolution was written by the Nine Mile Creek Watershed District and the Minnesota Nursery and Landscape Association (MNLA) wrote a statement* of support, both of which are included in the meeting packet.

SOS reports that chloride pollution was a big issue at the Town Hall Meetings earlier this fall. The MPCA put forward a proposal to the Governor's office to include action on chloride in recommendations to the legislature. Governor Dayton's decision will be announced the first week of March. Brooke Asleson, in her new full-time chloride position at the MPCA, has been working on a sustainable "Smart Salting" education component going forward and drafting a bill that more closely aligns with Minnesota liability law - requested earlier this fall by the Clean Water Council. The draft bill* is now public and a press release was tweeted on December 5 by Asleson (@brookeMPCA).

The coalition is currently working with potential authors and strategies for legislative presentations. They have met with four legislators in the last several weeks who are supporting the bill: Representatives Dario Anselmo and Frank Hornstein and Senators Melisa Franzen and Scott Dibble.

Motion by Wills, second by Johnson to write a letter in support of this legislation. Motion carried unanimously.

Motion by Jaeger, second by Roach to write a letter in support of this legislation. Motion carried unanimously.

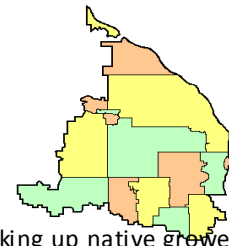
VIII. Education and Outreach.

Included in the packet was the **December WMWA (West Metro Water Alliance) update**.*

A. WMWA has switched over its email distribution system for the **WaterLinks** e-newsletter from Hennepin County to MailChimp. In order to continue to receive WaterLinks (or to newly subscribe), go to westmetrowateralliance.org/contact.html to sign up.

B. The Bassett Creek WMO and the City of Plymouth both recently hosted **salt applicator workshops**, attended mostly by city staff and only a few private applicators.

C. WMWA is currently discussing options for assisting property owners with **rain gardens and native plant conversions**. Two options being considered are 1) funding two hours of on-site technical assistance for owners who take the Metro Blooms Landscaping workshop; and/or 2) providing reimbursement for the cost of purchasing native plants, up to a certain amount, say \$100. These ideas are still under development.



D. WMWA is also planning to continue facilitating **native plant sales** by linking up native growers with community events such as festivals and farmer's markets. WMWA would pay any booth fees charged by the event sponsor and advertise the event; the grower would be free to sell plants.

E. Wenck Staff met with Patience Caso (HCEE) and two **Master Water Steward students** (Josh Bindewald, Sarah Guse) who live in Robbinsdale and are interested in learning more about the watersheds and how they can help foster citizen engagement. masterwaterstewards.org/

F. Website/Social Media. The website Google Analytics for November 2017 as well as the Facebook insights for the last 28 days for Shingle Creek and WMWA were attached to the update. Also included in the meeting packet was a listing of comments/questions* submitted to the Website since the site reboot.

G. The next **WMWA meeting** is scheduled for 8:30 a.m., Tuesday, January 16, 2018, at Plymouth City Hall. Commissioners are encouraged to attend.

IX. Grant Opportunities.

A. Included in the meeting packet was a draft of a **work plan to update the hydrologic and hydraulic modeling and special flood hazard areas** in the watersheds. The draft letter* has been submitted to the MnDNR as a proposal for funding with pass-through grants provided by FEMA. Eight tasks are described in the letter. Project completion date is June 2019.

The cost of performing the necessary work exceeds the amount of funding available. Staff are in the process of working with the member cities to see if they can perform some of the required land surveying, and with the DNR to see if there are other, supplemental funds or if their staff can take on some of the tasks.

Staff will return to the January meeting with a revised draft for consideration by the Commissioners.

B. The Board of Water and Soil Resources (BWSR) will release the results of the Clean Water Fund grant solicitation next week. Earlier this year the Commission submitted a grant application to help fund **alum treatments on Bass and Pomerleau Lakes** in the City of Plymouth. The Commission has levy funds available for the Bass Lake project, but with grant funding could also pursue the Pomerleau Lake project. [It was announced on December 20, 2017, that the application was funded at \$267,040, with a match of \$66,760.]

Whether or not the grant is awarded, Plymouth is interested in the Bass Lake alum application. They would like to have further discussion about it with the City Council before the Commission formally considers ordering the project. There are also some other procedural steps that the Commission should take, based on discussions with the Commission's attorney and with Steve Christopher, BWSR Board Conservationist.

Staff's December 8, 2017 memo* laid out the steps the Commission and City would take if both choose to proceed with either the Bass Lake alum application or the Bass and Pomerleau alum application projects, including a minor plan amendment.

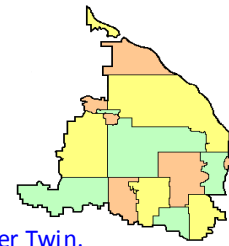
C. In their December 8, 2017 memo, Staff summarized discussions they have been having with the DNR regarding the proposed **carp removal from Twin Lakes**, installation of barriers and lake aeration, and aquatic vegetation management.

On November 30, 2017 the TAC reviewed and discussed the following findings:

1. The DNR agrees with the results of the carp monitoring and that the lake system is a good candidate for a carp removal projects.

2. Based on our tracking data and their knowledge about the lake system, the DNR suspects that most of the successful recruitment of carp is occurring in Upper Twin Lake, and also possibly Ryan Lake. However, based on data showing that carp do move out of the system, it is possible that migration from Shingle Creek is happening.

3. The townhome's ponds on the north side of the lake may be a spawning location, and a fish barrier on the Bass Lake Road culvert would help prevent spawning fish from accessing the ponds.



4. Aeration to support fish that prey on carp eggs is justified on Upper Twin.

5. Aeration may also be justified on Ryan Lake. The Commission and cities have not previously discussed aerating Ryan.

6. A barrier at the France Avenue Ryan Creek weir may prevent migration from Shingle Creek into Twin Lake, but it would also prevent migration of fish from Twin into Ryan. It may be possible to install a barrier on the culvert on the east side of Osseo Road where outflow from Ryan Lake is discharged from storm sewer into an open channel.

7. With improved water clarity, there will likely be an increase in the invasive curly-leaf pondweed. The DNR would consider issuing a variance to do treatments exceeding the 15% area maximum. Potentially up to 50% of the lake surface area should be treated the summer following carp removal. For maximum effectiveness, the treatment should be repeated the following two years.

Based on discussions with the DNR, but prior to receiving input from the community meeting, Staff and the TAC recommend:

(1) Proceed with the carp removal in January/February 2018;

(2) Design and install the Bass Lake Road culvert barrier;

(3) Design and install either the France Avenue weir or the Osseo Road culvert barrier, based on community input; and

(4) Design and install the Upper Twin aeration system.

These actions are all included in the project budget and would be funded from the \$125,000 Commission share of the project. The Commission would be the lead agency for working with the commercial fisherman assigned to this area to undertake the carp removal. The cities in which the barriers and aeration system reside would be the lead agencies for contracting for their installation.

[Wills departed 2:04 p.m.]

The community meeting with Twin and Ryan Lakeshore residents occurred last evening. 30-40 residents, primarily from Upper Twin Lake, attended; no one attended from Ryan Lake. One of their primary concerns was vegetation management.

Staff and the TAC also recommend the Commission plan to undertake the recommended Curly-leaf pondweed treatment in 2018 and discuss options for funding the follow up treatments. While the Commission has received one estimate of \$12,000 from one applicator, based on applications on other lakes, it is likely that the initial cost would be in the \$20,000-25,000 range. This was not included in the original project levy. However, the Biochar project will be returning about \$30,000 to the Closed Projects Account since only three ponds were retrofitted rather than four. Those funds would be available for redirection to this project if desired. There may also be additional levy funds available once the actual costs for the barriers and aeration system and for the fish removal are known. Staff will identify further options to fund years two and three of the application. Those applications may be less extensive and less costly. Staff will check with Karen Galles, Hennepin County, regarding inclusion of maintenance projects as CIPs in an ad valorem levy.

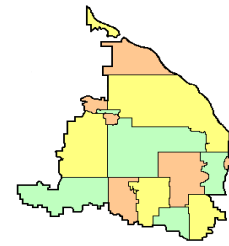
At this time Staff recommends waiting on proceeding with aeration for Ryan Lake. This DNR recommendation was not included in the project scope and budget. It would also have an impact on winter use of the lake. Ryan enjoys significant ice fishing and cross country skiing usage, so it would be very important to get community input into this decision.

Motion by Roach, second by G. Anderson to accept the report. *Motion carried unanimously.*

X. Communications.

A. November Communications Log.*

B. Matthiesen was interviewed by Minnesota Public Radio regarding the **use of chloride. "Salt is polluting our water. Here's how we can fix it," MPR News.***



XI. Adjournment.

There being no further business before the Commissions, the meetings were adjourned at 2:12 p.m.

Respectfully submitted,

A handwritten signature in black ink that reads "Judie A. Anderson".

Judie A. Anderson
Recording Secretary

JAA:tim+

Z:\Shingle Creek\Meetings\Meetings 2017\12_Regular Meeting Minutes.doc