

**MINUTES**  
**Regular Meeting**  
**June 13, 2019**

(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 12:45 p.m. on Thursday, June 13, 2019, at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: David Vlasin, Brooklyn Center; John Roach, Brooklyn Park; Burton Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Robert Grant, New Hope; Harold E. Johnson, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Ed Matthiesen and Jeff Strom, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Not represented: Minneapolis.

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

Not represented: Brooklyn Park.

Also present were: Andrew Hogg, Brooklyn Center; Mitch Robinson, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Derek Asche, Maple Grove; Liz Stout, Minneapolis; Megan Hedstrom, Tyler Johnson (Stantec), and Jodi Taitt, New Hope; Ben Scharenbroich and Alex Larson, Plymouth; and Richard McCoy, Robbinsdale.

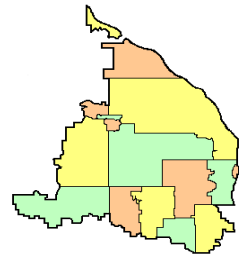
II. **Agendas and Minutes.**

Motion by Jaeger, second by Vlasin 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 Orred, second by Grant to approve the **minutes of the May regular and public meetings**.\* *Motion carried unanimously.*

Motion by Butcher, second by Jaeger to approve the **minutes of the May regular and public meetings**.\* *Motion carried unanimously.*



### III. Finances and Reports.

**A.** Motion by Orred, second by Roach to approve the **Shingle Creek June Treasurer's Report.\*** *Motion carried unanimously.*

Motion by Orred, second by Johnson to approve the **Shingle Creek June claims.\*** Claims totaling \$101,659.70, including the claim from Meta Materia,\* were *approved by roll call vote: ayes – Vlasin, Roach, Orred, Jaeger, Wills, Johnson, Polzin, and Sicora; nays – none; absent – Minneapolis.*

Motion by Orred, second by Sicora to accept the **2018 Audit Report.\*** *Motion carried unanimously.*

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

Motion by Johnson, second by Butcher to approve the **West Mississippi June claims.\*** Claims totaling \$18,868.52 were *approved by roll call vote: ayes – Vlasin, Butcher, Jaeger, and Johnson; nays – none; absent – Brooklyn Park.*

Motion by Johnson, second by Jaeger to accept the **2018 Audit Report.\*** *Motion carried unanimously.*

### IV. Open Forum.

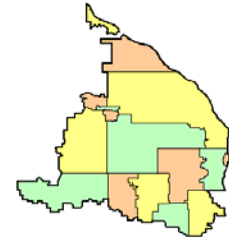
#### V. Project Reviews.

**A. WM2019-003 610 Crossings 2nd Addition Regional Pond, Brooklyn Park.\*** Construction of approximately 960 linear feet of storm sewer, grading of a regional pond, and lowering of an existing culvert pipe. Construction of this stormwater infrastructure is in anticipation of development of the 18.56-acre site with up to 80% impervious. The site currently has no impervious area. The site is located in the northeast quadrant of Highway 610 and Zane Avenue. Following development, the site could have up to 14.85 acres of impervious area. The complete project review application was received on April 16, 2019.

To comply with the Commission's water quality treatment requirement, the site must provide removal of 85% total suspended solids and 60% total phosphorus. Infiltrating 1.3 inches of runoff is considered sufficient to provide this level of treatment, according to Commission rules. Runoff from the site is proposed to be routed to an infiltration basin in the southeast corner of the site. Impervious surface could consist of up to 640,174 SF, generating 69,352 CF of runoff during a 1.3-inch storm. The proposed infiltration basin has the capacity to infiltrate 75,988 CF, which is more than the required volume. Further, water is routed from the infiltration basin into a MnDOT NURP pond, which will provide additional treatment. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site is proposed to be routed to an infiltration basin in the southeast corner of the site. The applicant meets Commission rate control requirements.

Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site could be up to 14.7 acres, requiring infiltration of 69,352 CF within 48 hours. The applicant proposes to route runoff to an infiltration basin in the southeast corner of the site that has the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission volume control requirements.



The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements. There is no floodplain on this site and there is at least five feet of freeboard between the infiltration basin's high-water level and the Highway 610 exit ramp. The applicant meets Commission floodplain requirements.

The erosion control plan includes a rock construction entrance, silt fence, rip rap at inlets, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

A public hearing on the project was conducted on April 12, 2019 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park was provided.

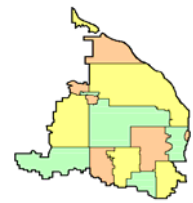
Motion by Butcher, second by Vlasin to advise the City of Brooklyn Park that Project Review WM2019-003 is approved with no conditions. *Motion carried unanimously.*

**B. WM2019-004: TH169 & 101st Ave Interchange, Brooklyn Park.\*** The proposed project is the construction of a bridge across Trunk Highway (TH) 169; construction of entrance and exit ramps/loops; reconstruction of 101st Ave from Jefferson Highway to 2,000 feet east of TH 169. The project will also include land and shoulder widening on TH 169 to accommodate the proposed entrance and exit ramps and loops. The site is 39.9 acres. Following development, the site will be 32 percent impervious with 12.7 acres of impervious surface, an increase of 5.7 acres. The complete project review application was received on May 14, 2019.

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 - 85% TSS removal and 60% TP removal. Runoff from the site is proposed to be routed to several BMPs, including: (1) a wet detention basin and infiltration basin at the west end of the project (West Basin); (2) a wet detention basin and infiltration basin within the southbound TH 169 entrance loop (West Loop Basin); (3) a wet detention basin and infiltration basin within the northbound TH 169 entrance loop (East Loop Basin); (4) an infiltration basin adjacent to TH 169 between the northbound exit loop and northbound entrance ramp (East Infield Basin); (5) an infiltration basin adjacent to the northbound entrance ramp to the east (Northeast Infield Basin); (6) an infiltration swale along eastbound 101st Avenue; and (7) grass swales along northbound and southbound TH 169. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site is routed to several BMPs that slow runoff rate. An XP-SWMM model was used to compare runoff rates at three drainage comparison points: the dual culverts under Highway 169, the weir at the northeast wetland, and the channel draining southeast from 101st Ave. Runoff is reduced from preexisting conditions to proposed conditions in all but one case, the 100-year event for the channel site. However, the rate increase is very small (6.25%), and it is not anticipated to have negative impacts. The applicant meets Commission rate control requirements.

Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 5.7 acres, requiring infiltration of 0.475 acre-feet within 48 hours. The applicant proposes to route runoff to several BMPs that have the capacity to infiltrate



more than the required volume within 48 hours. The applicant meets Commission volume control requirements.

There are several wetlands on this site. The Commission is LGU for WCA administration in Brooklyn Park and the Commission approved a wetland delineation for these wetlands in August of 2018.

The applicant is proposing temporary and permanent impacts to these wetlands, but all impacts will be mitigated at 2:1 ratio through the purchase of wetland mitigation credits within the watershed. A Minnesota Wetland Conservation Act/U.S. Army Corps of Engineers Joint Application Form is currently being prepared in order to approve the proposed impacts and mitigation strategies, and this application will be submitted to the Commission once completed. In addition, wetland buffers with a minimum of 20 feet in width and averaging 30 feet in width are provided in almost all cases. The only place in which the buffer requirement is not met is where 101st Avenue bisects a wetland, so adding buffer would mean filling the wetland. To compensate for reduced buffer strip width, the applicant has sloped the sidewalk and trail along 101st Ave toward the roadway, rather than towards the wetland areas, so polluted runoff is not routed to the wetland. The applicant meets Commission wetland requirements.

One DNR public water wetland is located on the project site. The proposed project is not anticipated to negatively impact this wetland. The applicant meets Commission Public Waters requirements. There is no floodplain on this site. The low floor elevations of nearby buildings are at least two feet higher than the high-water elevation of the detention ponds/infiltration basins according to Atlas 14 precipitation. The applicant meets Commission floodplain requirements.

The erosion control plan includes silt fence/biolog along the perimeter of the disturbed area, silt fence/biolog surrounding basins, inlet protection, native seed on pond slopes, and rip rap at inlets. The erosion control plan meets Commission requirements.

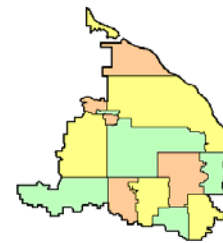
A public hearing on the project was conducted on April 22, 2019 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

Motion by Jaeger, second by Butcher to advise the City of Brooklyn Park that Project Review WM2019-004 is approved with no conditions. *Motion carried unanimously.*

## **VI. Watershed Management Plan.\***

**A.** The Shingle Creek Commission has received a Cost-Share Program application for an **Underground Storm Water System for the New Hope Civic Center Park.\*** The City is proposing an underground stormwater retention and treatment tank for the west portion of the site, adjacent to the proposed theater and skate park. The inline tank will treat runoff from a 7.4-acre area comprised of Zealand Avenue and surrounding residential areas that drain to the project site. The project cost is estimated to be \$108,000; the City is requesting \$50,000 cost-share from the Commission. It is Staff's recommendation that \$25,000 of that amount be taken from the Cost-Share Program and the other \$25,000 be taken from the BWSR Watershed-based Funding Grant. At their May 30, 2019 meeting, the Technical Advisory Committee (TAC) voted to recommend to the Commission approval of this project based on Staff's recommendations.

Motion by Orred, second by Jaeger to approve this project according to the TAC's recommendation. *Motion carried unanimously.*



**B. Meadow and Magda Lakes TMDL 5-Year Review.\***

1. Staff has completed a draft of the 5-Year Review for these lakes. Both lakes are small, shallow “neighborhood” lakes with small lakesheds and were designated Impaired Waters for excess nutrients in 2002. TMDLs were completed for these lakes in 2010.

Lake Magda outlets to Eagle Creek through storm sewer, while Meadow Lake outlets to Bass Creek through storm sewer. Since 2010 Staff have collected additional water quality, aquatic vegetation, fish, and sediment core data, and have updated the P8 and lake response models to include BMPs completed since that time. Staff’s June 7, 2019 memo provides an overview of that report and recommendations for the coming ten years. Strom presented highlights from the report and answered Commissioner questions.

Motion by Sicora, second by Vlasin to accept the report. *Motion carried unanimously.*

2. In its May 22, 2019 letter,\* the City of New Hope is requesting the Commission to develop a **lake management plan for Meadow Lake** and to apply for a Clean Water Fund grant to assist in the funding of a potential drawdown and alum treatment for the lake. Estimated cost to develop the management plan is \$150,000 - \$200,000. At their May meeting, the Technical Advisory Committee (TAC) voted to recommend to the Commission approval of this request based on Staff’s recommendations.

Motion by Grant, second by Sicora to approve the TAC’s recommendation. *Motion carried unanimously.* The project will be added to the CIP to make it eligible for grant funding.

**VII. Water Quality.**

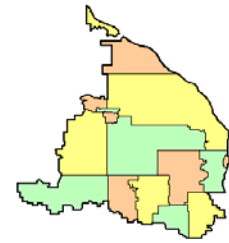
**A. Cedar Island Lake Subwatershed Assessment.\*** The City of Maple Grove has requested that the Commission share in the cost of a subwatershed assessment (SWA) for Cedar Island Lake and its drainage area similar to one previously approved and undertaken for the Maple Grove portion of the Pike Lake drainage area. In addition to BMPs identified in the watershed, the SWA would incorporate lake management activities completed by both the Commission and the City as well as the findings of the TMDL and TMDL Five-year Review. The City has requested cost share up to \$15,000. This was discussed at the May 30, 2019 TAC meeting and the TAC recommended approval of the request.

The Commission maintains a segregated account to conduct SWAs. Assuming Maple Grove begins the work this summer or fall and requests funds in 2020, the account balance will be adequate to fund the current request.

Motion by Roach, second by Orred to approve this request. *Motion carried unanimously.*

**B. Minnesota Statewide Chloride Management Plan (CMP).** Shingle Creek was the first water in the State to be declared an Impaired Water for excess chloride concentrations. The cities, county, state, and other parties in the watershed have been working diligently to reduce road salt application, the primary source of this chloride. Chloride has since been identified as an issue of statewide concern, and the Statewide CMP was recently released for public review and comment. Staff’s June 12, 2019 memo\* summarizes the report and its findings.

The MPCA’s goal is to spread education about chloride impairment, effect widespread implementation of chloride reduction BMPs, and improve policy to reflect chloride reduction goals. Throughout this timeline, the MPCA will continue to monitor water quality changes and the implementation of BMPs to determine whether the TCMA and Statewide CMPs were effective, and revise plans accordingly.



The MPCA has provided guidelines for BMPs for winter management activities, including the Smart Salting Assessment Tool, as well as guidelines for water softening BMPs, and guidelines for monitoring water quality. These can be accessed from the MPCA webpage for [Statewide Chloride Resources](#). The MPCA will also continue to work with stakeholders, work to inform the public about the environmental impacts of chloride, and engage communities in implementing BMPs.

C. The next **Technical Advisory Committee (TAC) meeting** has been scheduled for 8:30 a.m., Friday, June 21, 2019, at Crystal City Hall. The May 30 TAC meeting minutes\* are included in the meeting packet for informational purposes.

#### IX. Education and Public Outreach.\*

A. **Watershed PREP and Education and Outreach Events.** Educators have completed spring classroom visits. The educators are available to table at city and school events -- contact Amy Juntunen at [amy@jass.biz](mailto:amy@jass.biz). The educators are investigating putting together a short, 3-5 minute promotional video for Watershed PREP for use both in marketing to schools in the four watersheds as well as informing other watersheds about the program. The video will be recorded in a classroom with students to show one of the hands-on learning activities that are part of the curriculum. They will work either with willing and available city communications staff or with local cable access to record and edit the video.

B. **Website.** The group will be reviewing the West Metro Water Alliance (WMWA) website to refresh and update content. Any input is appreciated. [westmetrowateralliance.org/](http://westmetrowateralliance.org/)

C. **Ten Things Brochure.** The brochure has been completed and printed and we have received about 10,000 copies printed at no charge by Hennepin County. The brochure can be found at: [shinglecreek.org/uploads/5/7/7/6/57762663/2019\\_ten\\_things\\_final.pdf](http://shinglecreek.org/uploads/5/7/7/6/57762663/2019_ten_things_final.pdf). Copies can be requested from the administrative office. Brochures will also be distributed to member cities through their TAC representatives.

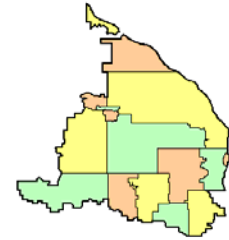
D. **Special Project Discussion.** Each year the four watersheds budget \$8,000 to undertake a larger project. The group continues to discuss purchasing a copy of the Blue Thumb native plant root puller display, which is extremely popular among both adults and youth. The nonprofit Blue Thumb has these custom displays made for about \$3,500. The displays educate users about one of the many features of native plants and their root lengths compared to turf grass and ornamental plants. This makes them ideal for stabilizing streambanks and lakeshores and for promoting infiltration by creating deep root channels. The display allows the user to pull out a string that is as long as the roots are deep. The strings are spring-wound, which then automatically retracts the strings back into the display. The display can be used at booths and city events, and it was suggested that it could also be a movable display, set up at city halls or community centers for a few weeks rotating amongst cities. It would help support the Pledge to Plant campaign as well. The wooden display is very heavy and has been undergoing several redesigns to improve portability. WMWA is still researching the best option.

Blue Thumb is a valuable source of information, including educational materials, how-to guides, a plant finder tool, and more. <http://www.blue-thumb.org/public-resources/>

E. **Website/Social Media.** The website Google Analytics for April-May 2019, along with the Facebook insights for the last 28 days for both Shingle Creek and WMWA and the WMWA Twitter metrics, are included in Staff's June 12, 2019 memo. A Facebook *Reach* is the number of times a post was viewed in a feed, *Engagement* is an action – a click, comment, share, or reaction.

F. The next **WMWA meeting** is scheduled for 8:30 a.m., Tuesday, July 9, 2019, at Plymouth City Hall.





**IX. Grant Opportunities and Updates.** The Commissioners received updates\* on the following:

**A. Twin Lake Carp removal.** Staff accompanied the DNR in the aquatic vegetation survey and determined that because of the snowy and otherwise harsh winter there was a die-back of curly-leaf pondweed. The amount present in the lake did not require treatment this year. Commission and Robbinsdale staff removed carp from Ryan Creek just upstream of the new fish barrier four times in May. An estimated 3800 pounds of biomass was removed at a cost of about \$5,000. At this point about half the total estimated biomass of carp in the system has been removed, or about 44% of the goal of removing about 33,000 pounds of carp. Lake water quality is also being monitored this season. The grant portion of this project ends August 31, 2019. Unspent levy funds will be retained in a segregated account to pay for future aquatic vegetation management and carp removals.

**B. Bass and Pomerleau Lakes Alum application.** The first dose of the alum applications occurred the week of May 13, 2019. All went smoothly and both lakes were treated that week. Cable 12, CCX Media, did a short report on the project <https://ccxmedia.org/news/water-treatment-project-begins-on-two-plymouth-lakes/>.

The DNR was on Bass Lake observing the treatment and undertaking a curly-leaf pondweed delineation with Commission staff. They delineated a 20.4-acre area for treatment, which occurred on May 23, 2019. Chair Polzin authorized going forward with the treatment, which was done by Lake Management, Inc. Their invoice for \$6,752.40 was included in the meeting packet.

**X. Communications.**

**A. May Communications Log.\*** No items required action.

**B. Liability Insurance Coverage.\***

Motion by Orred, second by Jaeger to NOT waive statutory tort limits for individual claimants. Motion carried unanimously.

Motion by Butcher, second by Jaeger to NOT waive statutory tort limits for individual claimants. Motion carried unanimously.

**XI. Other Business.**

The terms of representatives from Champlin and Minneapolis expired January 31, 2019. Staff have not received updated appointments as of this date.

**XII. Adjournment.** There being no further business before the Commissions, the meetings were adjourned at 2:03 p.m.

Respectfully submitted,

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

Judie A. Anderson  
Recording Secretary/JAA:tim