

MINUTES
Regular Meetings
January 14, 2016

(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 Wayne Sicora and Gerald Butcher, Vice Chairs, respectively, on Thursday, January 14, 2016, at 12:45 p.m., at Crystal City Hall, 4141 Douglas Drive, Crystal, MN.

Present for Shingle Creek were: David Vlasin, Brooklyn Center; Janet Moore, Crystal; Bill Wills, New Hope; Dan Spanier, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Brooklyn Park, Maple Grove, and Minneapolis.

Present for West Mississippi were: David Vlasin, Brooklyn Center; Gerry Butcher, Champlin; Dan Spanier, Osseo; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Brooklyn Park and Maple Grove.

Also present were: Andrew Hogg, Brooklyn Center; Todd Tuominen, Champlin; Mark Ray, Crystal; Bob Paschke, New Hope; and Leah Gifford and Ben Scharenbroich, Plymouth.

II. **Agendas and Minutes.**

Motion by Butcher, second by Wills to designate Sicora as chair of this meeting. *Motion carried unanimously.*

Motion by Moore, second by Vlasin to approve the revised **Shingle Creek agenda**.* *Motion carried unanimously.*

Motion by Butcher, second by Spanier to approve the revised **West Mississippi agenda**.* *Motion carried unanimously.*

Motion by Vlasin, second by Polzin to approve the **minutes of the December 10, 2015 Shingle Creek regular meeting**.* *Motion carried unanimously.*

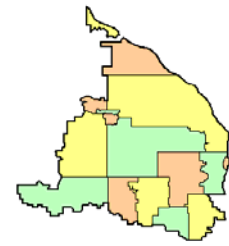
Motion by Butcher, second by Spanier to approve the **minutes of the December 10, 2015 West Mississippi regular meeting**.* *Motion carried unanimously.*

III. **Finances and Reports.**

A. Motion by Moore, second by Polzin to approve the **Shingle Creek Treasurer's Report**.* *Motion carried unanimously.*

Motion by Moore, second by Polzin to approve the **Shingle Creek January claims**.* Claims totaling \$30,738.58, plus an additional claim in the amount of \$190.61 payable to WMWA Educator Jenny Schaust, were approved by roll call vote: ayes – Vlasin, Moore, Wills, Spanier, Polzin, and Sicora; nays – none; absent – Brooklyn Park, Maple Grove, and Minneapolis.

*items are included in meeting packet



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

Motion by Butcher, second by Vlasin to approve the **West Mississippi January claims.*** Claims totaling \$11,628.19 were *approved by roll call vote: ayes – Vlasin, Butcher, and Spanier; nays – none; absent – Brooklyn Park and Maple Grove.*

IV. Open Forum.

Matthiesen announced that Charlie LeFevere, former Commission attorney, was recently diagnosed with non-Hodgkin lymphoma and has undergone cancer surgery. A card was passed around for all to sign. Updates can be read on LeFevere's CaringBridge site.

It was also announced that Richard McCoy's father has died. McCoy is in Australia with his family.

V. Project Review.

SC2016-01 Vicksburg Lane North, Plymouth.* Transportation and infrastructure improvements on Vicksburg Lane for 1.5 miles from north of Schmidt Lake Road to north of County Road 47. Following construction the site will be 59% impervious, an increase of 4.5 acres of the 25-acre construction footprint. A complete project review application was received on December 31, 2015.

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.

Runoff from the site is proposed to be routed to a series of existing and new stormwater basins. Runoff from the north reconstruction area will flow to existing stormwater infrastructure; the impervious area will not increase. An existing wet pond in the Taryn Hills development will accommodate additional volume and rate control between 60th Avenue and CR 47. A filtration basin will reduce sediment load and provide rate control between 57th and 60th Avenues. A new pond will be constructed to provide rate control, volume management, and water quality improvements from a newly constructed bridge in the project area to 57th Avenue. A new wet pond will be constructed to treat runoff from 51st Avenue to a new bridge in the project area. Finally, runoff from the southern extent of the project area will flow offsite to an existing stormwater basin; the proposed impervious surface area will match the existing conditions. The applicant meets Commission water quality treatment requirements.

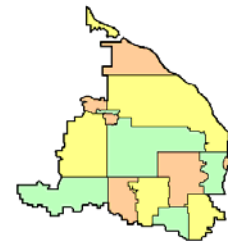
Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site will be routed to a series of existing and new stormwater basins. Runoff from the northern and southern extents will flow offsite. These impervious areas in the proposed plans will match the existing impervious area; therefore, rate control and volume will equal pre-redevelopment conditions. The applicant meets the Commission's rate control requirements.

Commission rules also require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 4.5 acres, requiring that 0.48 acre-feet be infiltrated within 48 hours. The applicant proposes to utilize existing stormwater BMPs along the project corridor and build a filtration basin that has the capacity to infiltrate the required volume within 48 hours, meeting Commission requirements.

The NWI does identify five wetlands along the project corridor. The City of Plymouth is LGU for WCA administration. Wetland buffers a minimum of 20 feet in width and averaging 30 feet in width are provided. The applicant will meet the requirements for three wetlands. Wetlands W-S and Vicksburg Lane were requested an alternative buffer strip requirement due to the limited space between the proposed trail, road, and wetlands. As LGU, Plymouth accepts the reduced buffer strips along the restricted areas, meeting Commission requirements.

There are no Public Waters or floodplain on this site. The low floor elevations of adjacent buildings are at least two feet higher than the high water elevation of the stormwater basins, meeting Commission requirements.

*items are included in meeting packet



An erosion control plan was submitted with the project review which includes perimeter silt fence, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

Public open houses on the project were conducted on February 26, 2014 and October 7, 2015, meeting Commission public notice requirements.

Motion by Polzin, second by Moore to advise the City of Plymouth that project SC2016-01 is approved with no conditions. *Motion carried unanimously.*

VI. Water Quality.

A. Brooklyn Center Public Works Grit Chamber Improvements.* Hogg presented an overview of this completed cost-share project.

The Brooklyn Center Central Garage is located immediately adjacent to Shingle Creek. Drainage from the storage yard is piped directly to the creek. The project involved installing two underground hydrodynamic separators on site to treat runoff from this highly impervious area at an estimated total cost of \$60,000, with the City requesting \$30,000 from the Commission's cost-share program. Estimated annual removals are: .1 lbs TP, 532 lbs TSS, and no volume reduction. Total construction costs were \$56,232.32.

Motion by Moore, second by Willis to approve payment of \$28,116.06 as the Commission's share of this project. *Motion carried unanimously.*

B. New Hope Holiday Park Rain Garden. The City is adding a rain garden in the southwest corner of Holiday Park, located at Flag and 47th Avenues to provide some volume management and treatment of city street drainage prior to discharge into a large wetland complex north of 49th Avenue. Paschke reported that the raingarden has been constructed and the planting will be done later this spring. The Commission's share of this estimated \$34,400 project is \$17,200.

C. On January 8, 2016 the Commission advised Derek Asche, Water Resources Manager for the City of Plymouth, of progress on the **Bass Lake TMDL Implementation Plan.*** In preparation for the five year review of the Plan, Commission staff are reviewing the data collected subsequent to the TMDL. Their preliminary assessment of the data indicates that the TMDL model may have overestimated external load and underestimated internal load. It is likely that the P8 model did not adequately account for runoff storage in the upper watershed's many wetlands, thus overestimating the volume of runoff and annual phosphorus load.

The city has been considering a flocculation system to treat runoff entering the lake from the watershed. Based on results from sediment testing it appears that internal loading may be more important than external sources and, therefore, should be the focus of remedial efforts. Initial results suggest that inactivation of sediments, such as a whole-lake alum treatment, may be more effective at improving water quality in Bass Lake.

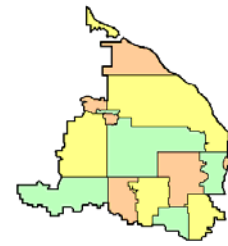
The Commission recommends that until the five year review is completed, the City postpone consideration of the flocculation system until it can be determined that it is the most cost-effective approach to load reduction in the lake.

D. Included in the meeting packet is a letter* from Metropolitan Council that includes a link to the Council's **2040 Water Resources Policy Plan.** The Plan lays out when and how regional sewer service will be provided to planning areas as well as policies and implementation strategies pertinent to water supply, surface water planning and management, and other wastewater issues.

VII. Watershed Management Plan.

Annual Review. 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 Rule 8410 that requires WMOs to review progress every two years.

*items are included in meeting packet



A. Shingle Creek.

1. Staff's January 8, 2016 memo included a status report on the **2015 Work Plan*** approved at the January 2015 meeting and encompassed revisions suggested by the Commissioners at their December meeting. Motion by Polzin, second by Moore to accept the 2015 Work Plan, adding the tour of the Webber Park pool as a meeting speaker/tour. *Motion carried unanimously.*

2. A second memo listed suggested activities for the **2016 Work Plan.*** Most of the activities are ongoing, others rotate around the watershed. Motion by Polzin, second by Wills to accept the 2016 Work Plan with minor revisions suggested by the Commissioners. *Motion carried unanimously.*

B. West Mississippi.

1. Staff's January 8, 2016 memo included a status report on the **2015 Work Plan*** approved at the January 2015 meeting and encompassed revisions suggested by the Commissioners at their December meeting. Motion by Butcher, second by Spanier to accept the 2015 Work Plan with the same addition as above. *Motion carried unanimously.*

2. A second memo listed suggested activities for the **2016 Work Plan.*** Motion by Butcher, second by Spanier to accept the 2016 Work Plan. *Motion carried unanimously.*

VIII. Education.

A. The Commissions received an **education grant application*** from the Lower Twin Lake Association for \$1,000 to assist in purchasing and installing a floating island adjacent to an outfall on Lower Twin. Floating islands are artificial wetlands made from recycled plastic bottles injected with an inert foam to provide buoyancy. They are planted with vegetation, promoting an above-water vegetative habitat and a microbial habitat below. The Commissioners requested more information before considering approval of the application; specifically, identification of a safe harbor, maintenance plan and exit plan. Matthiesen will draft a memo listing the Commissioners concerns for response by the Association. This item will be tabled to the February meeting.

B. The next **West Metro Water Alliance (WMWA)** meeting is scheduled for February 9, 2016. The January meeting was cancelled. Members continue to work on the new WMWA website, westmetrowateralliance.org, and the special project, *Pledge to Plant for Pollinators and Clean Water.*

C. Website Update. The new website www.shinglecreek.org has been up and running since mid-December. Staff are still populating with content and making some modifications. As of January 7, using Weebly Analytics, there have been 159 unique visitors and 1,043 page views. The site is now set up to use the more robust Google Analytics, so in the future more detailed usage data can be reported.

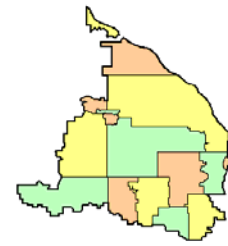
D. The Freshwater Society is seeking sponsors for the upcoming **15th Annual Road Salt Symposium*** on February 4, 2016. Motion by Polzin, second by Moore to approve sponsorship in the amount of \$250.00 from the Education budget. *Motion carried unanimously.*

Motion by Spanier, second by Vlasin to approve sponsorship in the amount of \$250.00 from the Education budget. *Motion carried unanimously.*

E. Clean Water Minnesota is a collaborative outreach project of WaterShed Partners. They provide resources, training and support to partners as they work with homeowners in the metro area to keep water clean and healthy. Clean Water Minnesota is requesting a contribution to further their work. Member communities can claim the Commission's contribution towards meeting their MS4 public education requirements. Motion by Moore, second by Polzin to approve a contribution of \$500 from the Education budget to Clean Water Minnesota. *Motion carried unanimously.*

Motion by Butcher, second by Spanier to approve a contribution of \$500 from the Education budget to Clean Water Minnesota. *Motion carried unanimously.*

*items are included in meeting packet



F. Summaries of the **2015 Clean Water Summit, NEMO on the Water Workshop, and Salt-Sand-Snow: Winter Road and Parking Lot Management Workshop*** were included in the meeting packet.

G. Also included in the packet was a **Monarch Butterflies Plant List*** from the USDA/NRCS.

H. Champlin will sponsor a Metro Blooms **Raingarden Workshop** on May 12. Plymouth will also sponsor a workshop in late April or early May. Other cities seeking to host a workshop should contact Anderson.

IX. Grant Opportunities and Updates.

A. **Becker Park Infiltration Project.** Staff has had discussions with Crystal regarding proceeding with this project. Staff will continue to explore additional sources of funding to supplement the \$725,000 CWF grant, including additional grants and potentially Hennepin County participation. The Crystal Park and Recreation Commission will be undergoing visioning for Becker Park in early 2016, which may impact specifics on how the project could be sited. As soon as the CWF grant funds are contracted (expected by March 2016) Crystal and staff will begin a more detailed geotechnical analysis and groundwater and hydrological modeling of this large underground infiltration gallery.

B. **Connections at Shingle Creek.** This project is currently under contraction, although it is now on hiatus until spring. An article in the *Sun Post* can be viewed at <http://post.mnsun.com/2016/01/06/work-continuing-to-connect-trail-along-shingle-creek-between-brooklyns/>

C. **Public Art Reaeration Project.** An initial meeting with Forecast Public Art and the selection committee was held January 7, 2016. This meeting introduced the committee members to current trends in public art, the project, and to the process they will use to identify, interview, and select one or more artists to design the structures. Forecast will take the information gleaned from the meeting and from meeting with Staff and prepare a draft Request for Qualifications (RFQ), which will be sent to an invited group of artists. Prior to the RFQ submittal date, the Commission and Forecast will hold a workshop for artists to learn more about the sites and the technical requirements of the art structures. Respondents to the RFQ will submit a letter detailing their experience and qualifications and their general approach to designing the art, and include examples of their work. Staff and Forecast will review submittals and select the top three to interview with the selection committee. The committee will select one to three artists/teams to move to the design phase. After approval of the final designs, the artist(s) will be commissioned to create their installation. At this time installation is expected to be completed in spring/summer 2017 with project completion by December 30, 2017, the expiration date of the grant.

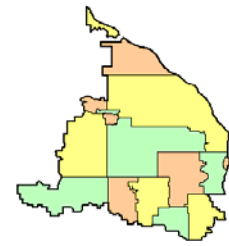
D. **Iron/Biochar Enhanced Sand Filters Project.** This project has just kicked off and Staff are gathering survey and as-built information for each of the potential ponds, and product information for the in-catch basin and above ground filter options. The pond locations (subject to local and agency approval) are:

1. MnDOT 45th Avenue Pond near Perry Ave N, Robbinsdale
2. Gaulke Pond, Crystal
3. Olson Middle School Pond, Minneapolis
4. Champlin Drive and Highway 169 Pond, Champlin

E. **Twin Lake Carp Management.** This project has just kicked off and Staff are gathering information regarding the timing and specific procedures required by the DNR for the fish capture and release and fish tagging activities, and getting firm quotes for the necessary equipment and supplies. Staff have discussed a tentative project schedule. This schedule includes both grant-funded monitoring and monitoring funded by the Commission's budget for CAMP and the rotating lake monitoring that precedes a TMDL Five Year Review.

The grant includes funding for a robust community engagement process. Results of some initial Staff brain-storming include: enlisting lake association volunteers to accompany Staff on tracking runs; training volunteers to recognize and report invasive aquatic vegetation; enlisting volunteers to help as labor during the catch and clip and catch and count operations; offering introductory limnology and "Ask a Fish Biologist" workshops; and maintaining active Facebook and Twitter accounts to share ongoing monitoring and reporting observations. The grant expires August 30, 2019.

*items are included in meeting packet



X. Communications.

A. Communications Log.* No action required.

B. Notice of **Light Rail Transit Open Houses and Public Hearings** - January 19 at Minneapolis Central Library, January 25 at Brooklyn Park City Hall.

XI. Other Business.

A. Hennepin County Commissioner Mike Opat will attend the Commissions' February meeting.

B. Election of officers will occur at the February meeting. [Moore will head the Nominating Committee.](#)

XII. Adjournment.

[There being no further business before the Shingle Creek Commission, motion by Jaeger Moore, second by Polzin to adjourn. Motion carried unanimously.](#)

[There being no further business before the West Mississippi Commission, motion by Butcher, second by Vlasin to adjourn. Motion carried unanimously.](#)

The meeting was adjourned at 2:23 p.m.

Respectfully submitted,

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

Judie A. Anderson
Recording Secretary
JAA:tim

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*items are included in meeting packet