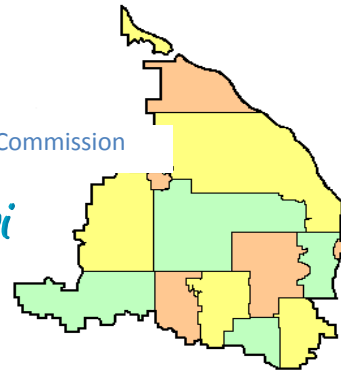




Watershed Management Commission



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MINUTES Regular Meeting April 11, 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, April 11, 2019, at the Clubhouse at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek: David Vlasin, Brooklyn Center; John Roach, Brooklyn Park; Burton Orred, Jr., Crystal; Andy Polzin, Plymouth; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Not represented: Maple Grove, Minneapolis, New Hope, Osseo and Robbinsdale.

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

Not represented: Maple Grove and Osseo.

Also present: Andrew Hogg, Brooklyn Center; Mitchell Robinson, Brooklyn Park; Todd Tuominen, Champlin; Leah Gifford and Ben Scharenbroich, Plymouth; and Marta Roser, Robbinsdale.

It is noted that the Shingle Creek attendees present do not constitute a quorum. Actions taken by the Shingle Creek Commissioners (✓) will be reaffirmed at the May Shingle Creek meeting.

II. Agendas and Minutes.

✓ Motion by Roach, second by Orred to approve the **Shingle Creek agenda**. * Motion carried unanimously.

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

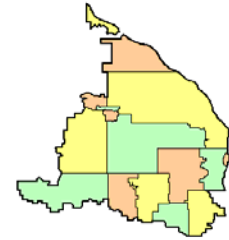
✓ Motion by Vlasin, second by Roach to approve the **minutes of the March meeting**. * Motion carried unanimously.

Motion by Chesney, second by Vlasin to approve the **minutes of the March meeting**. * Motion carried unanimously.

III. Finances and Reports.

✓ Motion by Orred, second by Roach to approve the **Shingle Creek April Treasurer's Report**. * Motion carried unanimously.

✓ Motion by Orred, second by Roach to approve the **Shingle Creek April claims**. * Claims totaling \$46,279.64 were approved by roll call vote: ayes – Vlasin, Roach, Orred, and Polzin; nays – none; absent – Maple Grove, Minneapolis, New Hope, Osseo and Robbinsdale.



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

Motion by Butcher, second by Chesney to approve the **West Mississippi April claims.*** Claims totaling \$10,774.13 were *approved by roll call vote: ayes – Vlasin, Chesney, and Butcher; nays – none; absent – Maple Grove and Osseo.*

IV. Open Forum.

V. Project Reviews.

A. SC2019-005 Park Center High School, Brooklyn Park.* Reconfiguration of parking lots, construction of new bituminous drives, new and reconstructed sidewalk, installation of artificial turf, and addition of infiltration basins and related utilities on a 53.9-acre site located at 7300 Brooklyn Boulevard. Following development, the site will be 48.3 percent impervious with 26.0 acres of impervious surface, an increase of 0.9 acres. A complete project review application was received on February 28, 2019. The application did not meet the Commission's requirements at that time and additional design changes unrelated to Commission requirements were requested by the Owner. An updated complete submittal was received on March 22, 2019.

To comply with the Commission's water quality treatment requirements, 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. Infiltrating 1.3 inches of runoff, for example, is considered sufficient to provide a similar level of treatment. If a sump is used the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

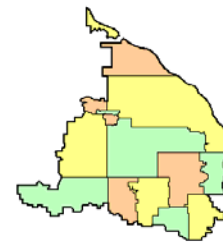
Three infiltration basins are proposed at the site to capture runoff. Two of the proposed infiltration systems are surface basins and one is an underground basin. The proposed infiltration basins are designed to infiltrate 1.0" of runoff from the new/reconstructed impervious surface. The project proposes 161,306 SF [3.7 acres] of new/reconstructed impervious surface. Reconstructed surface is defined as that which disturbs the existing aggregate base. The applicant provided MIDS model output demonstrating that the design will remove 92% of TP and 92% of TSS. Rain Guardian pretreatment devices are specified at the inlets of the surface infiltration basins and an isolator row with a 5.6 ft deep sump at the inlet of the underground infiltration basin. 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 directed to Regent Avenue, to Brooklyn Boulevard, and to Shingle Creek, or to one of three proposed infiltration basins with overflow to Shingle Creek. The applicant meets Commission rate control requirements at all discharge points.

Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new/reconstructed impervious area on this site is 3.7 acres, requiring infiltration of 0.31 acre-feet (13,442 CF) within 48 hours. The applicant proposes to construct three infiltration basins to receive runoff from new and reconstructed impervious surface. An infiltration rate of 0.45 in/hr was assumed, which is representative of the B soils on site. These proposed infiltration basins have the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission volume control requirements.

The National Wetlands Inventory identifies one probable wetland and one potential wetland in the southeast portion of the site. Shingle Creek WMC is LGU for WCA administration for the City of Brooklyn Park. No work is proposed in the wetland area. The applicant meets Commission wetland requirements.

Shingle Creek is a DNR Public Water on the south side of the site. It is impaired for aquatic life and aquatic recreation due to chloride, dissolved oxygen, and E. coli concentrations and poor aquatic macroinvertebrate bioassessment scores. The proposed project is not anticipated to negatively impact the creek or its Aquatic Consumption/Aquatic Recreation status. The applicant meets Commission Public Waters requirements.



There is FEMA 100-year floodplain on the southeastern portion of this site. The project does not propose any changes to the floodplain. The applicant meets Commission floodplain requirements.

An erosion control plan was submitted with the project review and includes a rock construction entrance, perimeter silt fence, silt fence surrounding infiltration basins, inlet protection, rip rap at inlets, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

A neighborhood open house was conducted on Thursday, April 4, meeting Commission public notice requirements. A draft Operations & Maintenance (O&M) plan, which will be the responsibility of the Owner, was provided.

✓ Motion by Orred, second by Vlasin to advise the City of Brooklyn Park that approval of project SC2019-005 is granted with no conditions. *Motion carried unanimously.*

B. Project Review Emery Village Reserve 3rd Addition, Champlin.* Construction of a 52 multi-family unit addition to the Emery Village Reserve Development on a 4.04-acre site located at the corner of Emery Village Drive and Business Park Boulevard. Following development, the site will be 62.6 percent impervious with 2.53 acres of impervious surface, an increase of 2.53 acres. A complete project review application was received on February 28, 2019. A revised complete application was received on March 28, 2018. Further revisions were received up to April 4, 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. Infiltrating 1.3-inches of runoff, for example, is considered sufficient to provide a similar level of treatment. If a sump is used the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

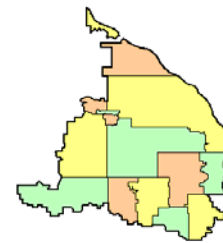
The site is located within a Drinking Water Supply Management Area and, therefore, infiltration practices may not be used. Runoff from the site is proposed to be routed to three filtration basins prior to discharge offsite to existing storm sewer. Outlet structures are designed for each of the three basins. The applicant used P8 to model TSS and TP load reduction from the site and demonstrated 94.9% removal of TSS and 66.1% removal of TP. 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. The 3rd Addition is part of a larger development plan that constructed regional ponds to provide rate control for future development. A storm sewer system was designed to convey future additions to the regional pond and, therefore, this development must not exceed the capacity of the existing 24" storm sewer stub. The applicant provided calculations showing that the capacity of the existing stub is not exceeded. Furthermore, the City of Champlin developed a HydroCAD model that includes this proposed project that shows the high-water level of the regional basin will not impact neighboring properties. Runoff from the site is directed into one of three proposed filtration basins prior to discharging through existing storm sewer to the east. The applicant meets Commission rate control requirements. Note: Post-development rates are higher, but are within the approved rate for the Emery Village Reserve development.

Commission rules require the site to filtrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 2.53 acres, requiring filtration of 0.21 acre-feet (9,184 CF) within 48 hours. The applicant proposes to construct three filtration basins that have the capacity to filtrate the required volume within 48 hours. The regional pond can handle the additional volume associated with the Emery Village Reserve 3rd Addition development. The applicant meets Commission volume control requirements.

The National Wetlands Inventory does not identify any wetlands on site. There are no Public Waters on this site. The applicant meets Commission wetland and Public Waters requirements.

There is no floodplain on this site. The City of Champlin requires a 3-foot freeboard between the 100-year high water level and the lowest opening unless it can be demonstrated that a 2-foot freeboard is sufficient. The low floor elevations of the buildings are at least two feet higher than the high-water elevation of the



detention ponds/infiltration basins according to Atlas 14 precipitation, and the applicant demonstrated that this is sufficient. The applicant meets Commission floodplain requirements.

An erosion control plan was submitted with the project review and includes rock construction entrances, perimeter silt fence, silt fence surrounding infiltration basins, inlet protection, 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 March 18, 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 Champlin was provided.

Motion by Butcher, second by Vlasin to advise the City of Champlin that approval of project WM2019-002 is granted conditioned that the City review outlet control structure shop drawings to ensure conformance with intended design. *Motion carried unanimously.*

VI. Watershed Management Plan

A. Cost Share Projects. The Commissions have on hand approximately \$100,057 (2018 audit hasn't been completed) in the Partnership Cost Share account, with another approximately \$50,500 levied to be received in 2019.

1. Enhanced Street Sweeper.* The TAC and the Commissioners have previously discussed the use of capital or cost share funds for high performance street sweeping equipment. At the March meeting the Commission approved the TAC's recommendation to approve Plymouth's application conditioned that before-and-after performance reporting parameters be developed.

While the TAC and Commissions are favorable of this idea, it is ultimately the decision of Hennepin County as to whether this meets the state statutes regulating their capital bonding. Staff have been in contact with Karen Galles at Hennepin County Energy and Environment, who is supportive of the idea. She has been discussing this idea with various upper level managers and county attorneys. Gilchrist reported on his research into the definition of a capital improvement.

Staff will also contact the Board of Water and Soil Resources and the Commission's auditor to seek their opinions and report at the May meeting.

2. Included in the packet was a request for reimbursement of \$40,000 for the 2018 Autumn Ridge Stormwater retrofit project.* Sherman Associates is also requesting to roll over the remaining \$10,000 of the grant for use in 2019.

✓ Motion by Roach, second by Orred to authorize the payment of \$40,000. *Motion carried unanimously.*

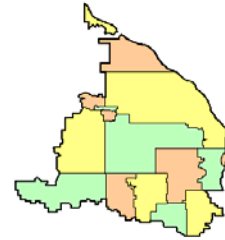
✓ Motion by Roach, second by Orred to approve the request to roll over the remaining \$10,000 for use in 2019. *Motion carried unanimously.*

B. Minor Plan Amendment. At the May 9 meeting a public meeting will be held where the Commissions take public comment, discuss the proposed revisions to the CIP, and establish a maximum levy for 2019.

VII. Water Quality.

A. Spector presented the Commissions' 2018 Annual Water Quality Report.* The report provides summary information for each of the water resources within the three management units of Shingle Creek and for West Mississippi as a whole. Spector reported that enough data is now available to begin to do some trend analyses. Both the report and the appendices, which are lengthy and were not included in the meeting packet, are available on the Commissions' website.

It was suggested to condense the material found in the report into a one-page information sheet



for transmittal to the cities and folks such as the County Commissioners and to also produce “lake report cards” for uploading to the website.

✓ **Motion by Roach, second by Orred to accept the Report. *Motion carried unanimously.***

Motion by Butcher, second by Chesney to accept the Report. *Motion carried unanimously.*

B. Included in the meeting packet were the Services Agreements between the Commissions and Hennepin County Department of Environment and Energy for **River Watch** (macroinvertebrate monitoring) and **WHEP** (Wetland Health Evaluation Program).

✓ **Motion by Orred, second by Roach to approve the 2019 agreement in an amount not to exceed \$4,000. *Motion carried unanimously.***

Motion by Butcher, second by Chesney to approve the 2019 agreement in an amount not to exceed \$3,000. *Motion carried unanimously.*

C. The March 14, 2019 Technical Advisory Committee (TAC) minutes* are included in the meeting packet. The next TAC meeting is scheduled for 8:30 a.m., Thursday, April 25, 2019, at Crystal City Hall.

VIII. **Education and Public Outreach.**

A. **Environmental Initiative** has awarded the Shingle Creek Watershed Management Commission an Honorable Mention in recognition of its Biochar- and Iron-Enhanced Sand Filters Project. The 2019 awards will be celebrated on May 22, 2019 at the Nicollet Island Pavillion. Contact Diane Spector if you are interested in attending.

Environmental Initiative (environmental-initiative.org/) is a nonprofit organization comprised of leading Minnesota businesses, environmental advocacy nonprofits, and state agencies with a goal of developing collaborative solutions to Minnesota’s environmental problems.

B. The Commissions’ draft **Annual Activity Reports** were included in the supplemental meeting packet. Staff is requesting acceptance of the reports pending review and comment by April 22, 2019. They will be transmitted to BWSR by the April 30 deadline.

✓ **Motion by Orred, second by Vlasin to accept the 2018 Annual Activity Report.* *Motion carried unanimously.***

Motion by Butcher, second by Chesney to accept the 2018 Annual Activity Report.* *Motion carried unanimously.*

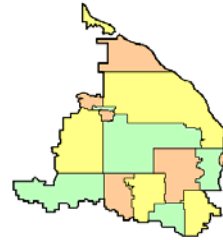
C. The next **West Metro Water Alliance (WMWA) meeting** is scheduled for 8:30 a.m., Tuesday, May 14, 2019, at Plymouth City Hall.

IX. **Grant Opportunities and Updates.** Staff provided verbal updates on the following:

- A. **FEMA Flood Mapping.**
- B. **Bass and Pomerleau Lakes Alum application.**
- C. **Twin Lake Carp removal.**
- D. **SRP Reduction project.**
- E. **Crystal Lake Management Plan Grant Application.**

X. **Communications.**

- A. **March Communications Log.*** No items required action.



B. Staff recapped the status of the **Limited Liability Legislation regarding commercial salt applicators.*** The House bill has been heard in the Environment and Natural Resources and Ways and Means Committees, and was to be heard in the Judiciary Committee on April 3. The Senate bill has been introduced in the Environment and Natural Resources Committee.

C. Scharenbroich informed the member of Plymouth's upcoming **Adopt-a-Highway Volunteer Clean-up Event**, Thursday, May 2, at 1 p.m. Volunteers will meet in the Cub Foods parking lot at the intersection of 36th Avenue and Highway 100 to kick off the event.

XI. Other Business.

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

B. Staff noted the death of Daniel Spanier, former Commissioner from the City of Osseo.

XII. Adjournment. There being no further business before the Commissions, the meetings were adjourned at 2:21 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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