

**MINUTES**  
**Regular Meeting**  
**April 13, 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 12:19 p.m. on Thursday, April 13, 2017, at the Clubhouse at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: Dave Vlasin, Brooklyn Center; John Roach, Brooklyn Park; Janet Moore, Crystal; Karen Jaeger, Maple Grove; Gary Anderson, Minneapolis; Bill Wills, New Hope; Harold E. Johnson, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen and Jeff Strom, Wenck Associates, Inc.; and Judie Anderson, JASS.

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

Also present were: Andrew Hogg, Brooklyn Center; Mitch Robinson and Steve Chesney, Brooklyn Park; Todd Tuominen, Champlin; Burt Orred, Crystal; Rick Lestina and Henry Jaeger, Maple Grove; Liz Stout, Minneapolis; Shawn Markham, New Hope; Derek Asche, Plymouth; Richard McCoy, Robbinsdale; and Cecelia Schiller, Artist.

**II. Agendas and Minutes.**

Motion by Sicora, second by Jaeger to approve the revised **Shingle Creek agenda**.\* *Motion carried unanimously.*

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

Motion by G. Anderson, second by Sicora to approve the **minutes of the March meeting**.\* *Motion carried unanimously.*

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

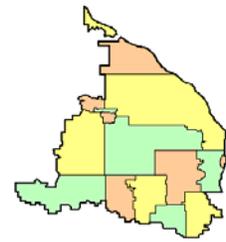
**III. Open Forum.**

Schiller displayed a mock-up of her alternative design for the art aeration structure at the Brooklyn Center City Hall site and described how the structure will work.

**IV. Finances and Reports.**

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

Motion by Wills, second by G. Anderson to approve the **Shingle Creek April claims**.\* Claims totaling \$84,384.66 were *approved by roll call vote*: ayes – Vlasin, Roach, Moore, Jaeger, G. Anderson, Wills, Johnson, Polzin, and Sicora; nays – none.



Motion by Jaeger, second by Wills to accept the **2016 Annual Activity Report.\*** *Motion carried unanimously.*

**B.** Motion by Jaeger, 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 April claims.\*** Claims totaling \$12,847.95 were *approved by roll call vote: ayes – Vlasin, Roach, Butcher, Jaeger, and Johnson; nays – none.*

Motion by Jaeger, second by Vlasin to accept the **2016 Annual Activity Report.\*** *Motion carried unanimously.*

#### **V. Project Reviews.**

**A. SC2017-01 Water's Edge at Central Park, Maple Grove.\*** Construction of the second phase of a townhome development on a site located at 11611 82nd Avenue North. Following development, the site will be 57 percent impervious, an increase of 1.78 acres. A complete project review application was received on March 3, 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.

This project falls within The Gravel Mining Area at Arbor Lakes, (GMA) and all water leaving the site has been accounted for by the regional ponds under city ownership. Runoff from the site is proposed to be routed to Central Park Regional pond. 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. This project falls within the GMA and the applicant meets the Commission's rate control requirements.

Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 1.78 acres. This project falls within the GMA and the applicant proposes to use the city infiltration credit that has the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission requirements.

The NWI does not identify any wetlands on site. There are no Public Waters or floodplain on this site.

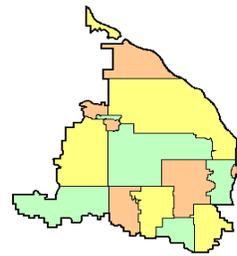
An erosion control plan was submitted with the project review, and includes a rock construction entrance, inlet protection, and perimeter silt fence. The erosion control plan meets Commission requirements.

A public hearing on the project was held on September 26, 2016 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

Motion by Jaeger, second by Wills to advise the City of Maple Grove that project SC2017-01 is approved with no conditions. *Motion carried unanimously.*

**B. WM2017-04 Amesbury Place, Brooklyn Park.\*** Construction of a 98-lot residential development, associated driveways, and three infiltration basins on a 12-acre site located at 93rd and Regent Avenues. Following development, the site will be 55.8 percent impervious, an increase of 6.7 acres. A complete project review application was received March 31, 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.



Runoff from the site is proposed to be routed to three infiltration basins. Pretreatment is required for water entering these basins to remove 80-85% TSS and 50-60% TP. A pretreatment system could consist of sumps, micropools or forebays. (If pretreating with sumps, please provide associated SHSAM calculations; if pretreating with micropools or forebays, please ensure that these BMPs can treat 0.25 inches of runoff.) The applicant does not meet 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. The applicant has provided HydroCAD calculations showing the pre- and post-development runoff rates, which are listed in Table 1. The applicant meets the Commission's rate control requirements.

Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 290,715 SF (about 6.7 acres), requiring that 24,226 CF of water be infiltrated within 48 hours. The applicant provides 27,597 CF of storage in three infiltration basins before water levels reach outlets at 1.5 feet. Therefore, these basins have the capacity to infiltrate the required volume within 48 hours, meeting Commission volume control requirements.

The NWI does not identify any wetlands on site. There are no Public Waters or floodplain on this site.

An erosion control plan was submitted with the project review and includes a rock construction entrance, perimeter silt fence, slope checks and inlet protection. In addition to these measures, native seed must be specified on the pond slopes. The erosion control plan does not meet Commission requirements.

A public hearing on the project will be conducted on April 12, 2017 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

Motion by Roach, second by Butcher to advise the City of Brooklyn Park that project WM2017-04 is approved with the following conditions:

1. Pretreatment is required for water entering infiltration basins.
2. Native seed must be specified on pond slopes.

*Motion carried unanimously.*

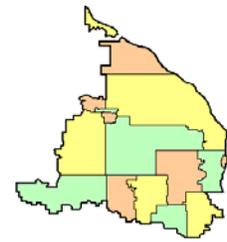
## **VI. Watershed Management Plan.**

### **A. City Cost-Share Projects.\***

The Commission maintains a City Cost-Share Projects Account for small projects under \$100,000, funded by an annual levy of \$100,000. This account is used for projects that are too small to be considered for separate listing on the CIP. Projects must be for water quality improvement above and beyond what would be required to meet Commission rules. Priority is given to projects identified in a subwatershed assessment or TMDL. The maximum cost share is \$50,000 per project, and the city must at least match that share. The account had an estimated encumbered balance of \$36,540 at the end of 2016 and has levied \$101,000 for collection in 2017, for an estimated year-end balance of \$137,540 before expenses. The cities of Crystal and Robbinsdale have submitted applications for 2017 cost-share funds.

**1. City of Crystal Phase 16 Street Reconstruction.** In 2017 the City will be reconstructing streets in the Skyway Neighborhood adjacent to Crystal Airport. Approximately nine infiltration sump manholes and infiltration swales are proposed to be installed to reduce runoff and alleviate some drainage issues. Much of the neighborhood surface flows to the Airport and then to Upper Twin Lake, an impaired water. Request is for \$50,000. The TAC recommends approval of this application.

**2. City of Robbinsdale 37th Avenue Infiltration Chambers.** In 2017 the City will be reconstructing Noble Avenue in a subwatershed draining to Crystal Lake, an impaired water. The City proposes to install two infiltration chambers designed for Atlas 14 10-year storm events. The reduction in annual TP load to Crystal Lake is estimated at 15 lbs/year. A subwatershed assessment was completed for the Crystal Lake drainage area in



Robbinsdale, and increased infiltration was recommended in this catchment. Request is for \$50,000. The TAC recommends approval of this application.

Motion by Moore, second by Jaeger to approve these projects for funding at \$50,000 each. *Motion carried unanimously.*

**B. 2017 Capital Improvement Program | Initiate Minor Plan Amendment.\*** Consideration of the annual Capital Improvement Program (CIP) has several steps. The first occurred in December and January as the member cities submitted requests for revisions to the respective CIPs. A determination is made as to whether those revisions can be accomplished as “housekeeping” or whether a Minor Plan Amendment (MPA) would be required. The next steps are concurrent over the next few months. If an MPA is required the Commissions must notify BWSR and Hennepin County as well as publish public notice, and discuss the proposed MPA at a public meeting in May 2017. Following that public meeting, held as part of the regular Commission meeting, the Commissions can adopt preliminary 2017 CIPs. The Commissions must also report their 2017 maximum levies to Hennepin County.

**1. DO Art Aeration Project.** There have been previous discussions regarding the use of solar power compared to grid power and the Commissioners’ and cities’ desire to use solar where possible. As they have been designed, the cost of solar power is adding considerably to the cost of the project. In addition, the Commissions have recently revised their cost-share policy to provide that 100% of the cost of internal load or research projects be paid from levy. Thus, the amount that had been previously levied for this project is insufficient. A Minor Plan Amendment would be required to add a Phase 2 to this project to incorporate solar power and to increase the cost share to 100%. There are three basic options:

- a. Run the art installations at all three locations for an estimated additional cost of \$120,000.
- b. Run the Connections and Centennial Park sites from solar and the Palmer Lake outlet site from the grid, which would be \$105,000.
- c. Run the Centennial Park site from solar and the other two sites from the grid, which would be \$90,000.

With the additional levy necessary to increase the cost share, the potential levy for Phase 2 could be up to \$145,000.

**2.** The next step would be taken by the TAC in May or June 2017. The TAC would receive feasibility reports for the projects proposed in 2017 and make a recommendation to the Commissions as to whether the project(s) should proceed to a public hearing. In July 2017 the Commission would consider which projects should proceed to a September 2017 public hearing and, in September, following the public hearing, certify the actual levies to the County.

Table 1 – Potential CIP Projects

Project	Total Estimated Cost	Commission Share	Recommendation
Cost share (city projects)	\$200,000	\$100,000	Proceed as is
Maple Grove Pond P57	\$648,000	\$162,000	Proceed; waiting for updated \$\$
Unspecified Lake Internal Load	\$200,000	\$200,000	Nothing pending, move to 2018
Shingle Creek Regent to BB	\$400,000	\$100,000	Nothing pending, move to 2019
Shingle or Bass Creek Project	\$500,000	\$125,000	Nothing pending, move to 2019
Partnership cost share (private projects)	\$100,000	\$50,000	Proceed as is
<b>TOTAL</b>	<b>\$2,048,000</b>	<b>\$737,000</b>	
Cost share (city projects)	\$50,000	\$50,000	Proceed as is
Mississippi Crossings Rain Garden	219,000	54,800	
Mississippi Crossings Vault	200,000	50,000	
Champlin Woods Rain Gardens	180,000	45,000	Nothing pending, move to 2019
Unspecified Wetland Restoration	250,000	62,500	Nothing pending, move to 2019
<b>TOTAL</b>	<b>\$899,000</b>	<b>\$262,300</b>	

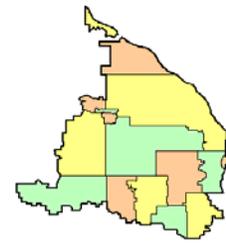


Table 2 – Recommended CIP Projects

Project	Total Estimated Cost	Commission Share	Recommendation
Cost share (city projects)	\$200,000	\$100,000	Proceed as is
DO Reaeration Phase 2	\$145,000	\$145,000	Proceed
Partnership cost share (private projects)	\$100,000	\$50,000	Proceed as is
<b>TOTAL</b>	<b>\$445,000</b>	<b>\$295,000</b>	
Cost share (city projects)	\$50,000	\$50,000	Proceed as is
Mississippi Crossings Rain Garden	219,000	54,800	Proceed
<b>TOTAL</b>	<b>\$269,000</b>	<b>\$104,800</b>	

Motion by G. Anderson, second by Sicora to approve the recommendations in Table 2 and to initiate the Minor Plan Amendment process. *Motion carried unanimously.*

Motion by Jaeger, second by Roach to approve the recommendations in Table 2 and to initiate the MPA process. *Motion carried unanimously.*

Staff will advise Hennepin County of the maximum 2017 levy amounts for each Commission and publish notice of the May 11, 2017 public meeting.

**VII. Water Quality.**

**A.** Strom presented a recap of the **2016 Annual Water Quality Report**.\* The 2016 report provides results by Management Unit. Those management units are West Mississippi and Upper, Middle and Lower Shingle Creek. More emphasis in the report is placed on long-term trends, explaining those trends, and spatial variability.

[G. Anderson departed 1:02 p.m.]

Motion by Jaeger, second by Moore to accept the 2016 Annual Water Quality Report. *Motion carried unanimously.*

Motion by Butcher, second by Roach to accept the 2016 Annual Water Quality Report. *Motion carried unanimously.*

Staff will draft a media release describing the positive findings from the report.

**B.** The Commissions have received the annual services agreements from Hennepin County for **2017 River Watch and Wetland Health Evaluation Program services**. The agreements have been reviewed by Gilchrist who has advised that additional language regarding insurance be added since MWOs are insured through the League of Cities and do not option to alter that coverage. He recommends adding language to the agreements to clarify that the Commissions' policies are sufficient.

Motion by Jaeger, second by Wills to approve the 2017 River Watch/WHEP agreement in the amounts of \$3,000 and \$2,000, respectively, with inclusion of the language recommended by the Commission's attorney. *Motion carried unanimously.*

Motion by Butcher, second by Jaeger to approve the 2017 WHEP agreement in the amount of \$3,000, with inclusion of the language recommended by the Commission's attorney. *Motion carried unanimously.*

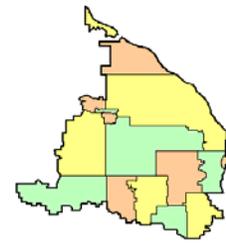
**VIII. Education.**

**A.** The **Plymouth Home Expo** was held April 7-8, 2017. A recap will be provided at the May meeting.

**B.** The next **WMWA meeting** is scheduled for 8:30 a.m., Tuesday, May 9, 2017, at Plymouth City Hall. Commissioners are encouraged to attend.

**IX. Grant Opportunities and Updates.**

**A. Becker Park.** Last year Metropolitan Council made one-time funds available for a program to award



grants to projects that use innovative or novel methods or practices to treat or manage stormwater. It was recently announced that the Stormwater Grant program is again available and applications will be taken until April 14, 2017, for projects to be completed by the end of 2019. The maximum grant is \$200,000, with a 25% match required. While underground infiltration galleries such as the one being proposed for Becker Park are no longer innovative, the scale and the nature of the project – runoff from a large minimally-treated subwatershed rather than from an individual site – is rare. Being located in a public park provides an opportunity to incorporate education. The project will compete strongly on several of the other preference points as well. The Becker Park project is estimated at \$2.2 million; it has already been awarded a BWSR Clean Water Fund grant of \$725,000 and the Commission will levy \$250,000. At last month's meeting the Commission authorized Staff to prepare a **Stormwater Grant application\*** in the amount of \$200,000 for this project.

Motion by Moore, second by Jaeger to approve the application and authorize its submittal. *Motion carried unanimously.*

**B.** The Clean Water Fund Accelerated Implementation grant agreement for the **Minneapolis Subwatershed Assessment** has been executed by BWSR and work on the project may begin. Included in the meeting packet is a **Professional Services Agreement\*** with Wenck Associates to complete the work. The agreement is in the amount of \$47,550.

Motion by Jaeger, second by Roach to authorize the Chair to sign the agreement on behalf of the Commission. *Motion carried unanimously.*

**C. Iron and Biochar-Enhanced Sand Filter Retrofit Project.\*** On September 8, 2016 the Commission ordered project WM2016-05 West Mississippi Iron and Biochar-Enhanced Sand Filter Retrofits, authorized the Commission to act as the lead agency for the installation of these BMPs, and adopted a Memorandum of Understanding between the Commission and the City of Champlin setting forth the terms for constructing and maintaining the improvements. Wenck Associates prepared plans and specifications and solicited quotes for construction of the improvements.

On April 4, 2017, four bids were received and opened from G. F. Jedlicki, Inc., Sunram Construction, Native Landscapes, and Blackstone Contractors, LLC, ranging from \$88,268.50 to \$98,612. G. F. Jedlicki, Inc. was the lowest bidder at \$88,268.50. Based on their review for qualification, completeness of proposal and lowest price, Staff have confirmed that G. F. Jedlicki, Inc. is the lowest qualified bidder.

The estimated construction cost at the time the levy was certified last year was approximately \$73,600, and the Commission levied \$80,000 to fund that construction and contingency, plus construction observation. Unforeseen factors arose during the design process as well as some additional work requested by Champlin which increased the estimated cost by about 30%. Staff recommend that the Commission authorize an estimated allocation of \$20,096.50 from the Commission's Grant Match Account to cover the additional cost for this project. At the end of 2016 the available fund balance in the account was approximately \$85,000. Staff also recommend that G. F. Jedlicki, Inc. be awarded the project at Champlin City Hall Pond.

Motion by Butcher, second by Roach to approve these recommendations. *Motion carried unanimously.*

The Commission has been approached by Beth Fisher, PhD candidate, at the University of Minnesota, Department of Soil, Water and Climate about using their rock biochemistry staff and laboratory resources to analyze interactions of bacteria and nutrient uptake in the strata depths of the iron/biochar filters. Matthiesen will follow up with Fisher and the University and the MPCA to determine if there is a probable connection and if the grant funding can be used for this purpose.

**D.** The **Minnesota Stormwater Research Council** has released its 2017 **request for proposals\*** to conduct stormwater research. Proposals are requested for projects up to two years in length beginning December 2017. Approximately \$80,000 will be available for this competition. Proposals must address 1) pre-treatment for stormwater practices; 2) effectiveness of current stormwater practices; or 3) chloride/road salt use, management, pollution, and best practices. Proposals are due June 16, 2017.



Matthiesen will pursue appropriateness of the rock magnetation process from the U of M for this competition.

**X. Communications.**

**A.** The March **communications log\*** was included in the meeting packet.

Suzanne Jiwani at the DNR provided an update on the **FEMA grant** for floodplain modeling and mapping. It would be a three-year project, with no commitment of Commission funds. However, because federal funding is involved, the availability and timeline are unknown.

**B.** The Minnesota Environmental Partnership has requested its partners to contact their state legislators, asking them to **vote NO on the Omnibus Environment and Natural Resources Budget Bill, HF88 and SF723.\*** Their position is that these bills will roll back environmental protections and make it more costly and time-consuming to adopt new protections for the state's air, land, lakes, rivers, and streams. It would also result in significant cuts in grant funds. They state in the letters that the bill includes a number of policy provisions that obstruct or prohibit state agencies charged with protecting our water and controlling pollution from carrying out their functions and duties, putting the State at odds with the Clean Water Act.

**C.** A MPCA bulletin\* requests review and comment by May 5, 2017 on the proposed plan for **environmental cleanup in the west area of the Joslyn Manufacturing and Supply Co. Superfund site.** Most of the site has been cleaned up; however, the last area that still needs cleanup work is the western portion of the site next Middle Twin Lake.

**XI. Other Business.**

**XII. Adjournment.**

There being no further business before the Shingle Creek Commission, motion by Jaeger, second by Moore to adjourn. *Motion carried unanimously.*

There being no further business before the West Mississippi Commission, motion by Jaeger, second by Butcher to adjourn. *Motion carried unanimously.*

The meeting was adjourned at 2:15 p.m.

Respectfully submitted,

Judie A. Anderson  
Recording Secretary  
JAA:tim

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