

MINUTES
Regular Meetings
February 11, 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, Vice Chair, and Karen Jaeger, Secretary/Treasurer, respectively, on Thursday, February 11, 2016, at 12:45 p.m., 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; Janet Moore, Crystal; Karen Jaeger, Maple Grove; Bill Wills, New Hope; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Minneapolis and Osseo.

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

Not represented: Champlin and Osseo.

Also present were: David Vlasin and Andrew Hogg, Brooklyn Center; Jesse Struve, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray and Burt Orred, Crystal; Rick Lestina, Maple Grove; Bob Paschke, New Hope; Leah Gifford and Ben Scharenbroich, Plymouth, Richard McCoy, Robbinsdale; and Tom Mathisen, guest.

II. **Agendas and Minutes.**

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

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

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

Motion by Jaeger, second by Roach to approve the **minutes of the January 14, 2016 Shingle Creek regular meeting*** with the following correction:

There being no further business before the Shingle Creek Commission,
motion by ~~Jaeger~~Moore, second by Polzin to adjourn.

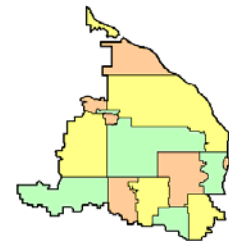
Motion carried unanimously.

Motion by Roach, second by Jaeger to approve the **minutes of the January 14, 2016 West Mississippi regular meeting*** as written. *Motion carried unanimously.*

III. **Finances and Reports.**

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

*items are included in meeting packet



Motion by Jaeger, second by Polzin to approve the **Shingle Creek February claims.*** Claims totaling \$58,106.99 were *approved by roll call vote*: ayes – Mulla, Roach, Moore, Jaeger, Wills, Polzin, and Sicora; nays – none; absent – Minneapolis and Osseo.

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

Motion by Jaeger, second by Mulla to approve the **West Mississippi February claims.*** Claims totaling \$20,088.15 were *approved by roll call vote*: ayes – Mulla, Roach, and Jaeger; nays – none; absent – Champlin and Osseo.

IV. Open Forum.

Members remembered **Charlie LeFevere**, former Commission attorney, who died on January 30, 2016. Memorials may be sent to St. Olaf College or Pheasants Forever.

V. Election of Officers.

A. Shingle Creek. Moore, chair of the Nominating Committee, brought forth the name of Polzin who has expressed his interest in serving as Chair. Sicora also expressed his interest in that position. Both spoke to their past service on the Commission and their desire to serve as Chair. By a show of hands, Polzin was elected Chair. Motion by Jaeger, second by Wills to elect Roach, Vice Chair; Jaeger, Secretary, and Moore, Treasurer. *Motion carried unanimously.*

B. West Mississippi. Motion by Roach, second by Jaeger to elect Gerry Butcher, Champlin, Chair; Mulla, Vice Chair; and Jaeger, Secretary/Treasurer. *Motion carried unanimously.*

C. Annual Appointments.

Motion by Jaeger, second by Moore to approve the following annual appointments: Deputy Treasurer – Judie Anderson; auditor – Johnson & Co.; official depositories - US Bank and the 4M Fund; and official newspaper – *Sun Post*. *Motion carried unanimously.*

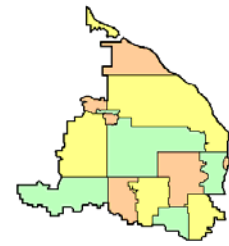
Motion by Mulla, second by Jaeger to approve the annual appointments listed above. *Motion carried unanimously.*

VI. Project Reviews.

A. SC2016-03 CSAH 81 Reconstruction, Brooklyn Park.* Transportation improvements on CSAH 81 from north of 63rd Avenue to north of West Broadway Avenue. The proposed project extends approximately 1 mile (approximately a 34-acre construction footprint) from 63rd Avenue to West Broadway Avenue. Following development, the site will be 53.1% impervious, an increase of 2.1 acres. A complete Project Review application was received on February 2, 2016.

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 will be routed to a series of existing and proposed stormwater basins. Runoff from north of Broadway Avenue will flow into existing stormwater infrastructure. The impervious area north of Broadway Avenue will be decreased to guarantee the existing BMPs can accommodate the runoff. A water quality sump has been added to provide additional treatment. The water quality sump was found to remove 54% of TSS for the area and should be increased to an 8' diameter structure with a 6' sump to increase the removal efficiency to 71%. A new wet pond will be constructed to provide rate control, volume management, and water quality improvements from TH 94 to Broadway Avenue. The wet pond will act as storage before flowing into a filtration basin. The filtration basin will reduce sediment and provide rate control between TH 94 and Broadway Avenue. This basin will

*items are included in meeting packet



have 6" drain tile below a layer of filter topsoil consisting of 70% sand and 30% compost. MnDOT seed mixture 33-261 containing Big Bluestem, Fringed Brome and Virginia Wild Rye seeds is used for the infiltration basin. Finally, runoff from the southern extent of the project will flow offsite into the CSAH 81 corridor where existing BMPs from a previous phase will be able to accommodate runoff. 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 south will flow offsite using the CSAH 81 corridor and existing BMPs. Runoff from the north will flow offsite through the 60" stormwater trunk. Runoff from TH 94 to West Broadway Avenue will flow to the new stormwater basins. 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 2.1 acres, requiring that 0.23 acre-feet be infiltrated within 48 hours. The applicant proposes to use the existing BMPs along the corridor, and build a wet pond and a filtration basin that have the capacity to filtrate the required volume within 48 hours, meeting Commission requirements.

The NWI identifies 10 wetlands or wet ditches along the project corridor. There will be permanent impacts to the wetlands which will be mitigated at a ratio of 2:1 in compliance with WCA and USACE standards, by purchasing credits from a wetland mitigation bank. Wetland buffers, a minimum of 20 feet in width and averaging 30 feet in width, are provided. The applicant will meet the requirements for seven wetlands. Wetland W-4, W-7, and W-10 were requested to have an alternate buffer strip requirements due to the limited space between the proposed roadways and wetlands. The alternate buffer strip around wetland W-4 is requested to be less than the 20 foot minimum and 30 foot average buffer width due to the constraints of the wetland and the adjacent roadways. The alternate buffer strip proposed for wetland W-7 will have a minimum buffer width of 17 feet, and an average buffer width of 51 feet. The alternate buffer strip for wetland W-10 is proposed to have a minimum buffer width of 16 feet and an average buffer width of 45 feet. Shingle Creek is the WCA LGU in Brooklyn Park. Due to limited options to move the road to meet the minimum buffer width and because the average is above the Commission's requirement the buffer meets the Commission rule.

There are no Public Waters on this site. There is no floodplain on this site, and there will be no changes in the floodplain. An erosion control plan was submitted with the project review, which includes perimeter silt fence, inlet protection, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

Public hearings on the project were conducted on August 13, 2015 and January 14, 2016, meeting Commission public notice requirements.

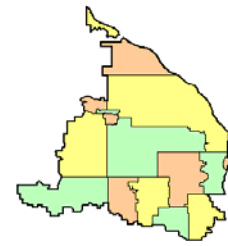
Motion by Jaeger, second by Polzin to advise the City of Brooklyn Park that project SC2016-03 is approved with two conditions.

1. Increase the size of sump structure 276 to have an 8' diameter with a 6' sump and recommend including a SAFL Baffle or Preserver.
2. Note on Plan: Conduct a post-construction infiltration test on the filtration basin to verify the filtration rates used in the design. If not met, make corrections as necessary to meet the design filtration rates.

Motion carried unanimously.

B. WM2016-01 Star Exhibits & Environments, Brooklyn Park.* Construction of an approximately 200,800 square foot commercial building and associated parking space on a 13.31 acre undeveloped pervious site located in the northwest corner of Hampshire Lane and 93rd Avenue. Following development the site will be

*items are included in meeting packet



67.7% impervious, an increase of 9.02 acres. A complete project review application was received on January 20, 2016.

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. Infiltration of the first 1.3" runoff from the site within 48 hours also meets Commission requirements for water quality.

Runoff from the site is proposed to be routed through a system of two infiltration basins. Runoff from the roof and parking areas south of the proposed building will be directed to the south infiltration basin, Runoff will outlet into the western infiltration basin above an elevation of 866.56'. Additionally, runoff from the north portion of the site will be routed directly into the west infiltration basin. The west infiltration basin has an outlet elevation of 866.5', where it outlets into municipal stormwater systems. The proposed pipe channel north of the building will receive flow from the parking lot and will be routed directly into the west basin, providing an opportunity for high sediment levels. The Commission requests the installation of a sump catch basin prior to entry into the west basin in order to meet 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 through infiltration basins to the south and west of the proposed building before outletting into municipal stormwater systems along Hampshire Ave. 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 or filtration of 1.3". The new impervious area on this site is 9.02 acres, requiring that 42,565 CF be infiltrated within 48 hours to meet the 1.3" requirement. The applicant has the capacity to infiltrate the required volume within 48 hours, meeting Commission requirements.

The NWI does not identify any wetlands on site. There are no Public Waters or floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the high water elevation of the infiltration basins, meeting Commission requirements.

An erosion control plan was submitted with the project review, and includes rock construction entrances, perimeter silt fence, slope checks, and native seed specified on the pond slopes. The Commission requests the installation of silt fence at the HWL of the infiltration basins, once constructed, to prevent compaction or inadvertent alteration during the remainder of construction activities in order to meet Commission requirements.

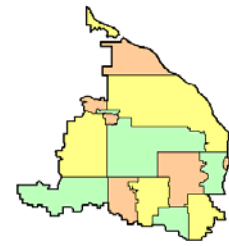
Public hearings on the project are scheduled as part of Planning Commission and City Council review of this project on February 10, 2016 and February 22, 2016, respectively. This meets Commission public notice requirements.

Motion by Mulla, second by Roach to advise the City of Brooklyn Park that project WM2016-01 is approved with four conditions.

1. Show silt fence on grading plan along the HWL contour of the basins.
2. Include a sump manhole at CBMH #208 specific to EPA guidance for pretreatment of stormwater before discharging into the west infiltration basin.
3. Submit an O&M agreement to the City of Brooklyn Park specification.
4. Conduct a post-infiltration test to ensure infiltration.

Motion carried unanimously.

*items are included in meeting packet



C. WM2016-02 94th and Colorado Avenues North, Brooklyn Park.* Construction of new 94th Avenue and Colorado Avenue roadways, trails and infiltration ponds. 2,285 feet of new roadway with new BMPs will be installed to treat and attenuate stormwater runoff from the project site. Following development the site will be 70% impervious, an increase of 2.6 acres. The impervious area includes 3.4 acres for the current roadway project, 0.8 acres for future 94th Avenue extension, and 8.4 acres for future development. A complete project review application was received January 28, 2016.

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. Infiltration of the first 1.3" runoff from the site within 48 hours also meets Commission requirements for water quality.

Runoff from the site is proposed to be routed to one of three interconnected infiltration basins. The 94th Avenue Infiltration Basin will receive stormwater runoff from 94th Avenue from the high point just west of Zane Avenue to the westerly limits of the project via a proposed drainage system. Excess stormwater from the 94th Avenue Basin discharges into the Colorado Infiltration Basin.

The Colorado Avenue Basin receives stormwater runoff from Colorado Avenue from the high point just south of 94th Avenue to the high point just north of 93rd Avenue via a proposed drainage system. Excess stormwater from the Colorado Avenue Basin discharges into the Zane Avenue Infiltration Basin. The Zane Avenue Basin receives stormwater runoff from 94th Avenue from the high point just west of Zane Avenue to the intersection of Zane Avenue via a proposed drainage system. The basin also treats a portion of Zane Avenue to the north of 94th Avenue. Any overflow from the Zane Avenue Basin will discharge to the existing stormwater sewer under Zane Avenue. All new basins are designed to meet infiltration requirements, reduce sediment load, and provide rate control. The applicant meets the Commission's 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 is directed to one of three proposed infiltration basins, which will ultimately exit the site through an existing 24" RCP at the northwest corner of 93rd and Zane Avenues. The applicant meets the Commission's rate control requirements for ultimate discharge from the Zane Avenue Basin to the existing storm sewer system.

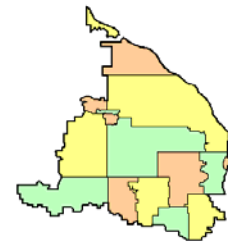
Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 12.6 acres, requiring that 1.05 acre-feet be infiltrated within 48 hours. The applicant proposes to construct three infiltration basins that will have the capacity to infiltrate the required volume within 48 hours, which meets Commission requirements. The applicant shall conduct a post-construction infiltration test on the infiltration basin to verify the infiltration rates used in the design. If not met, corrections will be made to meet the design infiltration rates.

The NWI does not identify any wetlands on site. West Mississippi is LGU for WCA administration. There are no Public Waters on this site. There is no floodplain on this site according to FEMA. The low floor elevations of the buildings are at least two feet higher than the high water elevation of the infiltration basins according to Atlas-14 precipitation, meeting Commission requirements. There is no known contaminated soil/groundwater according to the project engineer. Infiltration will not cause detrimental effects to the groundwater.

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.

A public hearing on the project has been conducted as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

*items are included in meeting packet



Motion by Roach, second by Jaeger to advise the City of Brooklyn Park that project WM2016-02 is approved with one condition.

1. Conduct a post-construction infiltration test on the infiltration basin to verify the infiltration rates used in the design. If not met, make corrections as necessary to meet the design infiltration rates.

Motion carried unanimously.

VII. Water Quality.

A. In their February 4, 2016 memo Staff presented the proposed **2016 Shingle Creek monitoring program**.* The proposal is consistent with the program outlined in the Third Generation Watershed Management Plan. It includes routine monitoring as well monitoring to obtain data to be used to evaluate progress toward the TMDLs. In 2016 the Commission will complete 5-year reviews of progress toward the Bass and Eagle Lake chains TMDLs and perform monitoring on Meadow and Success Lakes.

The Commission has routinely performed **stream monitoring** for water quantity and various water quality chemical parameters in Shingle Creek since 1996 at two locations, one downstream of Humboldt Avenue in Minneapolis, **SC-0** and one upstream of Zane Avenue in Brooklyn Park, **SC-2**. In 2007, **SC-2** was moved upstream to just downstream of Brooklyn Boulevard (**SC-3**) in order to obtain a better stage-discharge relationship.

In 2015 Bass Creek, **BC-1**, was added as a third site to be routinely monitored for water quality and conductivity. Monitoring at **BC-1** will help gain better information about water quality in Bass Creek, and obtain baseline conductivity and chloride data in advance of the Bass Creek chloride TMDL, which was completed as part of the Metro Chloride TMDL. \$31,250 is included in the budget for stream monitoring in 2016.

A fourth site at Queen Avenue in Minneapolis, **SC-1**, is monitored for flow by the US Geological Survey (USGS) as a part of its ongoing National Assessment of Water Quality (NAWQA). Except for continuous conductivity and temperature, chemical parameters are no longer routinely measured at **SC-1**. The Queen Avenue data are available on-line real-time at <http://waterdata.usgs.gov/mn/nwis/uv?05288705>. The Commission also partners financially with the USGS in the operation of the Queen Avenue monitoring station. That continued participation (\$3,750) has been approved by the Commission separately.

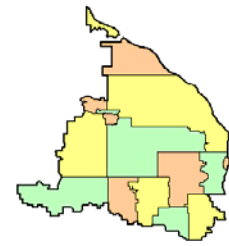
Student volunteers provide stream **macroinvertebrate monitoring** through Hennepin County Environment and Energy's RiverWatch program at three locations on Shingle Creek. The Commission contracts with Hennepin County for this service. The contract for 2016 is currently being developed. Three Rivers Park District occasionally monitors an additional site on the creek in the North Mississippi Regional Park. \$3,000 is included in the budget for RiverWatch.

The **in-stream conductivity sensor** at **SC-0** is broken and should be replaced. This instrument is used to estimate chloride concentration at the outlet of the creek and to estimate chloride loads. \$2,000 is included in the budget for this item.

To track the effectiveness of BMP implementation in improving lake water quality, the Commission performs **intensive lake monitoring** to supplement the volunteer surface monitoring. Because the Commission's goals include achieving delisting of lakes that meet their TMDLs and water quality, the Third Generation monitoring plan includes more rigorous lake monitoring sufficient to demonstrate to the MPCA and EPA that conditions have improved. For 2016, Meadow and Success Lakes will be monitored twice monthly, including surface water samples and water column temperature and DO profiles. Magda and Pomerleau are scheduled for 2017, at which point the first intensive monitoring cycle will be complete. The budget for intensive lake TMDL monitoring is \$9,700.

A component of the intensive monitoring is obtaining or updating surveys of **lake aquatic vegetation**. Aquatic vegetation plays an important role in water quality and biotic integrity, and that vegetation

*items are included in meeting packet



community can change as water quality changes. For 2016 it is proposed that surveys for Meadow and Success Lakes be updated in tandem with the intensive monitoring. Cost of the surveys is \$7,900.

Intensive lake monitoring on Eagle Lake in 2015 identified internal loading as a potentially important source of phosphorus in the overall nutrient budget. The TMDL prepared in 2010 for Eagle Lake used model residual to estimate internal loading. However, recent lake and watershed monitoring suggest that internal loading may be a larger percentage of the overall phosphorus budget than previously thought. Results from **sediment coring** will be used to verify the internal phosphorus loading that was observed during the 2015 intensive sampling effort. \$4,400 is included in the budget for Eagle Lake sediment coring.

The Commission has participated in Metropolitan Council's **Citizen Assisted Lake Monitoring Program (CAMP)** since 1993. CAMP trains volunteers to take surface water samples and make water quality observations using standardized reporting techniques and forms. This program is an NPDES Education and Outreach BMP. Lakes are monitored on a rotating schedule. Larger lakes are monitored every other year, smaller lakes every three years. In 2016 CAMP volunteers will monitor Crystal, Ryan and the Twin Lake chain at a budgeted cost of \$3,800.

In 2016 the water level in **Wetland 639W** will be monitored at both the outlet weir and the overflow weir. Five water quality samples will be collected to estimate phosphorus loading from the wetland to Upper Twin Lake. Budgeted amount is \$2,000.

The Commission began participating in Hennepin County Environment and Energy's Wetland Health Evaluation Program (WHEP) in 2007. Adult volunteers monitor vegetative diversity and macroinvertebrate communities. In 2016 two wetlands will be monitored at a cost of \$2,000.

Motion by Polzin, second by Moore to approve the 2016 Shingle Creek monitoring program as outlined. *Motion carried unanimously.*

B. In their February 4, 2016 memo Staff presented the proposed **2016 West Mississippi monitoring program**.* The proposal is consistent with the program outlined in the Third Generation Watershed Management Plan and includes ongoing, routine **stream monitoring** of flow and water quality at two sites per year on a rotating basis. In 2016 the Environmental Preserve and Mattson Brook sites will be monitored. Continuous flow will be monitored using pressure transducers and water quality will be analyzed through field parameter measurements, periodic grab samples and storm composite sampling using automated samplers purchased by the Commission in 2010. The 2016 budget for this activity is \$17,000.

Student volunteers from Minneapolis South High School provide stream **macroinvertebrate monitoring** through Hennepin County Environment and Energy's RiverWatch program at one location in West Mississippi – Mattson Brook. The 2016 contract with Hennepin County is currently being developed. \$1,000 is included in the budget for RiverWatch.

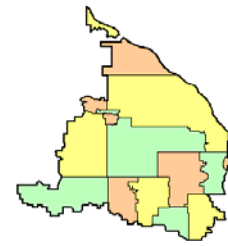
The 2016 budget includes \$2,000 to monitor two wetlands through Hennepin County Environment and Energy's Wetland Health Evaluation Program (WHEP). Staff will work with the cities to identify the sites for 2016.

Motion by Mulla, second by Jaeger to approve the 2016 West Mississippi monitoring program as presented. *Motion carried unanimously.*

C. The Technical Advisory Committee (TAC) met on February 4, 2016 to discuss Cost Share applications, CIP revisions, requests for subwatershed assessments, and grant projects.*

1. For budget year 2016 Shingle Creek levied \$100,000 for **cost-share projects** and **West Mississippi levied \$50,000**. In December cities were requested to submit applications to the TAC to consider and recommend to the Commissions. One application was received, from the City of Brooklyn Park.* The request is for

*items are included in meeting packet



\$30,200 to share the cost of adding sumps with SAFL baffles and a small pond to treat road runoff prior to discharge into Bass Creek. Because the project is not adding new impervious, the Commissions' rules do not require the City to incorporate water quality BMPs. Motion by Moore, second by Jaeger to approve Brooklyn Park's cost-share application. *Motion carried unanimously.*

No other applications were received. The application period will remain open until funds are exhausted. If no other cost-share projects are approved in 2016, the unexpended funds will roll over to 2017.

2. Proposed 2016 CIP Revisions. One project was submitted to the TAC to be added to the CIP. The City of Crystal requests to add the Becker Park Infiltration Project* to the 2018 CIP. This can be done through a Minor Plan Amendment as long as the County concurs. The procedure would be for the Commissions to initiate a Minor Plan Amendment, send notice to the cities and Hennepin County, and then the County will undergo its review and public hearing process. (See VIII., below.) Once that is completed (likely in June), the Commissions could adopt the Amendment. Motion by Moore, second by Sicora to initiate a Minor Plan Amendment to add the Becker Park Infiltration Project to the 2018 Shingle Creek CIP. The Commission's share of this \$2,500,000 project would be \$250,000, *Motion carried unanimously.*

3. Both Shingle Creek and West Mississippi budgets fund to complete one subwatershed assessment per year. The TAC received one request for a subwatershed assessment in 2016, from the City of Plymouth, to evaluate the area tributary to Pike Creek/Pike Lake.* The City of Minneapolis submitted a request for 2017 to complete an assessment in its drainage area. Motion by Polzin, second by Wills to approve completion of a subwatershed assessment in the Pike Creek/Lake drainage area in Plymouth. *Motion carried unanimously.* No requests were received from West Mississippi.

VIII. Watershed Management Plan.

Communication with Randy Anhorn, Hennepin County Environment and Energy, and Steve Christopher, Board of Water and Soil Resources, has determined the timeline for the County Board to set a public hearing date for the **proposed Minor Plan Amendment (MPA)**, approve the amendment and set maximum levies, and set the final levies will be as follows:

- Board Action Request (BAR) for public hearing submitted to County – April 15 or April 29
- BAR in committee on May 17 or June 14
- Board action to schedule public hearing on May 24 or June 21
- Public hearing held in committee on June 14 or June 28
- BAR for amendment approval and maximum levy submitted to County – June 16
- BAR in committee on July 19 – Commission representative must be present at this meeting
- Board action on amendment – July 28
- BAR for setting final levy submitted to County – September 23
- BAR in committee on October 25
- Board action on amendment – November 1

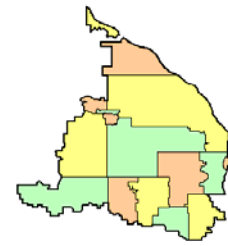
The Commissions' timeline will run concurrently.

IX. Education.

A. Included in the meeting packet was a draft of the **2015 NPDES Annual Report**. It describes the education and public outreach activities performed in 2015 in fulfillment of the Commissions' Third Generation Plan's Watershed Education and Public Outreach goals. The report formats information about 2015 activities in a way that will help the MS4s meet their reporting requirements. Information contained in this document can be inserted directly into the member cities' reports. Motion by Jaeger, second by Wills to accept the 2015 NPDES Annual Report. *Motion carried unanimously.*

Motion by Roach, second by Mulla to accept the 2015 NPDES Annual Report. Motion carried unanimously. Staff will transmit the report to the member cities.

*items are included in meeting packet



B. At the January meeting the Commissions considered 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. The Commissioners requested more information before considering approval of the application; specifically, identification of a safe harbor, maintenance plan and exit plan. Matthiesen contacted the writer of the proposal regarding the Commissioners' concerns and drafted a memo with her responses.* Upon further discussion, **motion by Moore, second by Mulla to deny the application. Motion carried unanimously.**

Motion by Mulla, second by Jaeger to deny the application. Motion carried unanimously.

Staff will craft a letter to the Association with an explanation of the Commissions' action and proposing alternative suggestions, descriptions of other possible projects in the subwatershed that may offer greater water quality improvement, and including copies of the *Ten Things* brochure.

C. Fortin Consulting is seeking MPCA grant assistance to continue to host MPCA voluntary certification training classes and is requesting a **letter of support*** from the Commission. The classes are proposed to be offered to outdoor maintenance professionals at no or reduced cost to educate them in ways to reduce pollutants applied to roads, parking lots, sidewalks, and turf areas. The Commission would be responsible for hosting the classes and soliciting attendees. Funding would be taken from the Education budget. After discussion regarding Staff time associated with supporting this effort, **motion by Jaeger, second by Polzin to deny the request for a letter of support. Motion carried unanimously.** Personnel from the member cities will still have the opportunity to participate in the classes.

D. Website Update. Staff continues to populate the new website, www.shinglecreek.org. Commissioners are urged to visit the site and provide comments and suggestions for additions to Staff.

E. The next **West Metro Water Alliance (WMWA)** meeting is scheduled for March 8, 2016. Members continue to work on the new WMWA website, westmetrowateralliance.org, and the special project, *Pledge to Plant for Pollinators and Clean Water*. At the February meeting the Watershed PREP educators reported on the spring classes. They are having difficulty reaching some schools due to faculty turnover.

The WMWA 2015 Annual Report will be included in the March meeting packet.

[Wills departed 2:35 pm.]

X. Grant Opportunities and Updates.

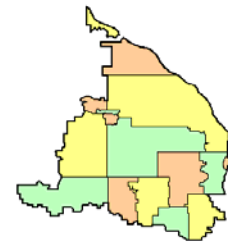
A. Becker Park Infiltration Project. The work plan associated with the \$725,000 CWF grant is due in a few weeks. The Crystal Park and Recreation Commission will be undergoing visioning for Becker Park in early 2016. As soon as the CWF grant funds are contracted (expected by March 2016) Crystal and Staff 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 on hiatus until spring.

C. Public Art Reaeration Project. A Request for Qualifications (RFQ) has been drafted and will be sent to an invited group of artists. 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. 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. Other possible pond locations include:

*items are included in meeting packet



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. Staff are gathering information regarding the timing and specific procedures required by the DNR for the fish capture and release and tagging activities and getting firm quotes for the necessary equipment and supplies. A brief presentation of the project was made by Tom Langer, Wenck biologist, at the TAC's February 4 meeting. It can be viewed at <http://www.shinglecreek.org/tac-meetings.html>.

The grant includes funding for a robust community engagement process. This process could 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.

XI. Communications.

A. Communications Log.* No action required.

B. The Commission was in receipt of a letter from the law firm of Eckland & Blando, LLP, requesting copies of records from 2000 to present relating to

1. Maintaining or changing or changes to the ordinary high water level in the Twin Lakes;
2. Surveys or investigations into the effect that any construction, renovation, or landscaping project may have had on drainage to or away from the Twin Lakes;
3. Surveys or investigations into the effect that any construction, renovation, or landscaping project may have had on the OHW level in the Twin Lakes.

Cities riparian to Twin Lakes also received this request. Staff will review their files and respond appropriately.

XII. Other Business.

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

XIII. 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 Mulla, second by Jaeger to adjourn. *Motion carried unanimously.*

The meeting was adjourned at 2:45 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