



3235 Fernbrook Lane N • Plymouth, MN 55447
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 Email: judie@jass.biz • Website: www.shinglecreek.org

September 3, 2020

Commissioners
 Shingle Creek and West Mississippi
 Watershed Management Commissions
 Hennepin County, Minnesota

The agenda and meeting packet are available to all interested parties on the Commission's web site:
<http://www.shinglecreek.org/minutes--meeting-packets.html>

Dear Commissioners:

Regular meetings of the Shingle Creek and West Mississippi Watershed Management Commissions will be held **Thursday, September 10, 2020, at 12:45 p.m.** **This will be a virtual meeting.**

Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join a meeting, click <https://zoom.us/j/834887565> or go to www.zoom.us and click **Join A Meeting**. The meeting ID is **834-887-565**. If your computer is not equipped with audio capability, you need to dial into one of these numbers:

| | | |
|-------------------------------|------------------------------|-------------------------------|
| +1 929 205 6099 US (New York) | +1 312 626 6799 US (Chicago) | +1 669 900 6833 US (San Jose) |
| +1 346 248 7799 US (Houston) | +1 253 215 8782 US | +1 301 715 8592 US |

Meetings remain open to the public via the instructions above.

The Commissions will suspend their regular meetings at 12:45 p.m. for the purpose of conducting a public hearing on the following improvement projects: 2020-01 Shingle Creek City Cost Share Retrofit Projects; 2020-02 Connections II Stream Restoration; 2020-03 Plymouth Enhanced Street Sweeper; 2020-04 Meadow Lake Management Plan; 2020-05 Bass Creek Restoration; 2020-06 Shingle Creek Partnership Cost Share BMP Projects; 2020-07 West Mississippi City Cost Share Retrofit Projects; 2020-08 Mississippi Crossings Phase II Infiltration Vault; and 2020-09 River Park Stormwater Improvements.

The regular meeting will resume immediately after the public hearings conclude.

Please email me at judie@jass.biz to confirm whether you or your Alternate will be attending the regular meeting. Thank you.

Regards,

Judie A. Anderson
 Administrator

cc: Alternate Commissioners
 Wenck Associates

Member Cities
 Hennepin County

Troy Gilchrist
 Reviewing Agencies

TAC Members

Z:\Shingle Creek\Meetings\Meetings 2020\09 Notice_Regular Meeting and Public Hearing.docx



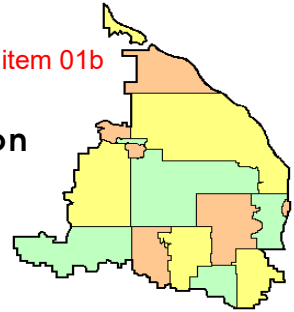
Shingle Creek



Watershed Management Commission

West Mississippi
Watershed Management Commission

item 01b



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A combined regular meeting of the Shingle Creek (SC) and West Mississippi (WM) Watershed Management Commissions will be convened Thursday, September 10, 2020, at 12:45 p.m. Agenda items are available at <http://www.shinglecreek.org/minutes--meeting-packets.html>. *Black typeface denotes SCWM items, blue denotes SC items, green denotes WM items.*

The Commissions will suspend their regular meetings at 12:45 p.m. for the purpose of conducting a public hearing on the following improvement projects: 2020-01 Shingle Creek City Cost Share Retrofit Projects; 2020-02 Connections II Stream Restoration; 2020-03 Plymouth Enhanced Street Sweeper; 2020-04 Meadow Lake Management Plan; 2020-05 Bass Creek Restoration; 2020-06 Shingle Creek Partnership Cost Share BMP Projects; 2020-07 West Mississippi City Cost Share Retrofit Projects; 2020-08 Mississippi Crossings Phase II Infiltration Vault; and 2020-09 River Park Stormwater Improvements.

To join the meeting, click <https://zoom.us/j/834887565> or go to www.zoom.us and click Join A Meeting. **The meeting ID is 834-887-565.** If your computer is not equipped with audio capability, dial into one of these numbers:

| | | |
|-------------------------------|------------------------------|--------------------|
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| +1 669 900 6833 US (San Jose) | +1 346 248 7799 US (Houston) | +1 301 715 8592 US |

-
1. Call to Order.
 - SCWM a. Roll Call.
 - ✓ SCWM b. Approve Agenda.*
 - ✓ SCWM c. Approve Minutes of Last Meeting.*
 2. Reports.
 - ✓ SC a. Treasurer's Report and Claims** - voice vote.
 - ✓ WM b. Treasurer's Report and Claims** - voice vote.
- Suspend regular meetings.*
- SCWM 3. Public Hearing for 2020 Capital Improvement Projects.
 - SCWM a. Staff Report.*
 - SCWM b. Commission discussion.
 - SCWM c. Open Public Meeting.
 - SCWM 1) Receive Written Comments.
 - SCWM 2) Receive Comments from Public.
 - SCWM d. Close Public Hearing.
 - SCWM e. Commission Discussion.
 - ✓ SC f. Consider Resolution SC2020-01.*
 - ✓ WM g. Consider Resolution WM2020-01.*

Resume regular meetings.

- SCWM 4. Open forum.

(over)

- 5. Project Reviews.
 - ✓ SC a. SC2020-007 Middle of the Boulevard, Brooklyn Park.*
 - ✓ SC b. SC2020-008 MAC Crystal Airport Boardwalk Phase 2, Crystal.*
 - ✓ WM c. WM2019-010 Mississippi Crossing, Champlin.*
 - ✓ WM d. Woodspring Suites Hotel, Brooklyn Park.*
 - ✓ WM e. North Park Business Center-DataBank, Brooklyn Park.*
- 6. Watershed Management Plan.
- SCWM 7. Water Quality.
- 8. Grant Opportunities.
 - SC a. Bass and Pomerleau Alum Treatment.*
 - ✓ SC 1) First Amendment to Cooperative and Subgrant Agreement.*
 - SC 2) Original Agreement.*
 - SCWM b. BWSR Watershed-Based Implementation Funding.*
 - 1) Matrix.*
- 9. Education and Public Outreach.**
 - SCWM a. Next WMWA meetings – 8:30 a.m., Tuesday, September 8, and October 13, 2020.
Virtual meetings.
- SCWM 10. Staff Report.*
 - SC a. SRP Reduction Project.
 - SC b. Crystal Lake Management Plan.
 - SC c. Bass and Pomerleau Lakes.
 - SC d. Meadow Lake Drawdown.
- 11. Communications.
 - SCWM a. Communications Log.*
- SCWM 12. Other Business.
- SCWM 13. Adjournment.



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MINUTES Regular Meeting August 13, 2020

(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 virtual 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 12:47 p.m. on Thursday, August 13, 2020.

Present for Shingle Creek were: Adam Quinn, Brooklyn Park; Burton Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Ray Schoch, Minneapolis; Bob Grant, New Hope; John Roach, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson and Amy Juntunen, JASS.

Not represented: Brooklyn Center.

Present for West Mississippi were: Alex Prasch, Brooklyn Park; Karen Jaeger, Maple Grove; Harold E. Johnson, Osseo; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson and Amy Juntunen, JASS.

Not represented: Brooklyn Center, Champlin.

Also present were: Andrew Hogg, Brooklyn Center; Mitch Robinson, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Derek Asche, Maple Grove; Liz Stout, Minneapolis; Megan Hedstrom, New Hope; Leah Gifford, Ben Scharenbroich and Amy Riegel, Plymouth; Richard McCoy and Marta Roser, Robbinsdale; and Sean Murphy, Landform Professional Services, for Project Review 2020-007.

II. Agendas and Minutes.

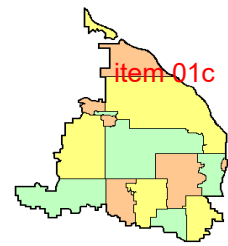
Motion by Orred, second by Schoch to approve the **Shingle Creek agenda**.* *Motion carried unanimously.*

Motion by Johnson, second by Prasch to approve the **West Mississippi agenda**.* *Motion carried unanimously.*

Motion by Jaeger, second by Schoch to approve the **minutes of the July 9, 2020 regular meeting**.* *Motion carried unanimously.*

Motion by Jaeger, second by Johnson to approve the **minutes of the July 9, 2020 regular meeting**.* *Motion carried unanimously.*

[Quinn arrived 12:50 p.m.]



III. Finances and Reports.

A. Motion by Schoch, second by Jaeger to approve the Shingle Creek **August Treasurer's Report* and claims** totaling \$46,664.28. Voting aye: Quinn, Orred, Jaeger, Schoch, Grant, Roach, Polzin, and Sicora; voting nay – none; absent: Brooklyn Center.

B. Motion by Johnson, second by Jaeger to approve the **West Mississippi August Treasurer's Report* and claims** totaling \$13,802.41. Voting aye: Prasch, Jaeger, and Johnson; voting nay – none; absent: Brooklyn Center and Champlin.

IV. Open Forum.

V. Project Reviews.

SC2020-007 Middle of the Boulevard, Brooklyn Park.* Demolition of two existing structures and construction of a parking area and associated landscaping on 11.5 acres. The project site is three parcels adjacent to 7417 Brooklyn Boulevard, bound by Brooklyn Boulevard and Regent Avenue. Following development, the site will be 85 percent impervious with 9.8 acres of impervious surface, an increase of 0.25 acres. This review is for the grading and erosion control plans for the site. Due to soils data received August 12, 2020, showing peat instead of the assumed sand, the stormwater management plan must be redesigned. Staff anticipates review of the updated stormwater plan before the September Commission meeting. A complete project review application was received on July 30, 2020.

The erosion control plan includes rock construction entrances, perimeter silt fence/bio-log, silt fence surrounding detention ponds/infiltration basins, inlet protection on existing outlets, rip rap at inlets, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

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

There is FEMA 100-year floodplain on the southern portion of this site. The FEMA 100-year flood elevation is 859.1 ft. No buildings are proposed. The proposed grading will result in a net storage increase of 722 cubic yards. The applicant meets Commission floodplain requirements.

The site is not located in a Drinking Water Management Area (DWSMA). The applicant meets Commission drinking water protection requirements.

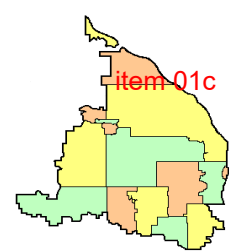
Two public hearings on the project were conducted in May 2020 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

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

Motion by Schoch, second by Orred to advise the City of Brooklyn Park that project SC2020-007 is approved with no conditions for the site grading and erosion control plans. *Motion carried unanimously.*

VI. Watershed Management Plan.

A. 2020 Capital Improvement Program and Feasibility Studies.* The Commissioners have previously received Feasibility Studies or Reports for the projects proposed on the 2020 Capital Improvement Program (CIP). The next step in the process is to receive and discuss those feasibility studies and call for a public hearing on those projects that the Commissions desire to move forward.



| Shingle Creek Projects | Total Estimated | City/ Private | Grant | Comm Share | Total Levy |
|--|--------------------|------------------|------------|-------------------|-------------------|
| Cost Share (city projects) | \$200,000 | \$100,000 | 0 | \$100,000 | \$106,050 |
| Connections II Stream Restoration | 400,000 | 0 | 0 | 400,000 | 424,200 |
| Plymouth Street Sweeper | 350,000 | 275,000 | 0 | 75,000 | 79,540 |
| Meadow Lake Management Plan | 300,000 | 0 | 0 | 300,000 | 318,150 |
| Bass Creek Restoration | 400,000 | 0 | 0 | 400,000 | 424,200 |
| Partnership Cost Share (private projects) | 100,000 | 50,000 | 0 | 50,000 | \$53,025 |
| Subtotal | \$1,750,000 | \$425,000 | \$0 | \$1,325,00 | |
| 5% additional for legal/admin costs | | | | 66,250 | |
| Subtotal | | | | 1,391,250 | |
| TOTAL LEVY (101% for uncollectable) | | | | \$1,405,16 | \$1,405,16 |

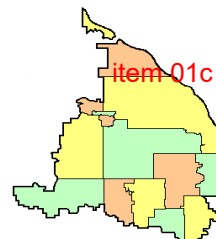
| West Mississippi Projects | Total Estimated | City/ Private | Grant | Comm Share | Total Levy |
|--|------------------|------------------|-------------|------------------|------------------|
| Cost Share (city projects) | \$100,000 | \$50,000 | 0 | \$50,000 | \$53,025 |
| Miss Crossings Phase B Infiltration Vault | 400,000 | 300,000 | 0 | 100,000 | \$106,050 |
| River Park Stormwater Improvements | 485,000 | 363,750 | 0 | 121,250 | 128,585 |
| Subtotal | \$985,000 | \$713,750 | \$ 0 | \$271,250 | |
| 5% additional for legal/admin costs | | | | 13,560 | |
| Subtotal | | | | 284,810 | |
| TOTAL LEVY (101% for uncollectable) | | | | \$287,660 | \$287,660 |

B. Shingle Creek Projects.

1. **Commission Fund for Retrofit Cost Share (City Projects).** This annual project provides cost sharing to retrofit smaller BMPs. The Technical Advisory Committee (TAC) developed policies and procedures to administer these funds and makes recommendations to the Commission on which projects should be funded. Brooklyn Park, Brooklyn Center, Minneapolis, Crystal, Robbinsdale, and New Hope have all received matching funds for small voluntary BMP projects. The annual levy is \$100,000, to be matched at least one-to-one by a member city or cities. Applications are open until funds are depleted. Potential cost-share projects for 2021 will be solicited in November-December 2020, but the program is open until all funds have been used.

2. **Priority BMP Retrofits (Private Partnership Projects).** The annual levy is \$50,000, and funding does not require a match. Potential cost-share projects are open year-round until the funds are depleted.

3. **Connections II Stream Restoration.** This project in the cities of Brooklyn Park and Brooklyn Center will restore 1,750 linear feet of stream habitat in Shingle Creek and will reduce sediment and phosphorus pollution originating from this stretch of stream by 75-80%. Stream segments upstream



and downstream of this reach have previously been improved. Completing this segment will result in an almost 2.5 mile long corridor of restored urban stream.

4. Plymouth Street Sweeper. The City of Plymouth intends to purchase a regenerative air street sweeper to enhance its street sweeping program and increase the frequency of sweeping in the vicinity of impaired waters. Street sweeping is one of the most cost-effective best management practices for improving water quality and reducing pollutant loading to streams and lakes.

5. Meadow Lake Management Plan. This project in the City of New Hope will control invasive fish and plants and regenerate the native seedbank of the lake by completing a whole lake draw down. The project will also include the installation of some fish barriers, as well as education and outreach. Once the biology is restored, an alum treatment may be completed.

6. Bass Creek Restoration. This project will improve 1,500 linear feet of stream by restoring the natural shape of the channel, adding features like gravel riffles, thinning the tree canopy, and restoring understory stream buffer vegetation. This project will also reconnect the stream to its adjacent floodplain to ensure adequate conveyance of flood flows and install a flow-through filter to remove phosphorus from water leaving the upstream wetland and entering Bass Creek. The project runs from Cherokee Dr N to I-94/694 in the City of Brooklyn Park.

C. West Mississippi Projects.

1. Commission Fund for Retrofit Cost Share (City Projects). Similar to Shingle Creek, this annual project provides cost sharing to retrofit smaller BMPs. No project applications have been received to date.

2. Mississippi Crossings Phase B Infiltration Vault. The City of Champlin will provide regional stormwater treatment for public and private redevelopment for the Mississippi Crossings at TH 169 and the Anoka-Champlin bridge. Runoff from the site will be directed toward a series of infiltration vaults under a common parking lot that serves a mixed residential-commercial development, senior housing complex, public park, amphitheater, public docks, and event center. Private developers on this site will pay a proportionate amount of the costs to construct these vaults. The Commission's share will contribute only to the portion needed to treat the public improvements to the site.

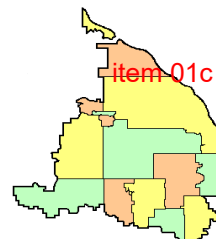
3. River Park Stormwater Improvements. The City of Brooklyn Park will incorporate a tiered, natural feeling stormwater pond into the planned improvements to River Park. The pond will treat 250 acres of runoff that currently discharges untreated directly to the Mississippi River. These improvements will remove an estimated 60% of total suspended sediments and 29% of phosphorus currently reaching the Mississippi River from this drainage area.

D. Staff Recommendation.

Staff recommends receiving their report and calling for a public hearing on the proposed projects to be held on September 10, 2020. At that time, the Commissions will also certify levies to Hennepin County, and authorize the execution of cooperative agreements with the lead cities to contract the ordered projects

Motion by Schoch, second by Grant to approve Staff's recommendation. *Motion carried unanimously.*

Motion by Jaeger, second by Johnson to approve Staff's recommendation. *Motion carried unanimously.*



A copy of the legal notice* calling for the public hearing was included in the meeting packet.

VII. Water Quality.

VIII. Grant Opportunities.

A. Clean Water Fund (CWF) Grant Applications.* BWSR is accepting applications for projects and practices through mid-August. This year there is approximately \$12 million in grant funding available and there are usually \$60 million in applications submitted. All grants require a 25% match. In 2019, grant applications were submitted for the Meadow Lake Drawdown and the Connections II projects but were not funded. Staff recommends re-submitting both projects with minor revisions and developing a grant application for the Bass Creek Stabilization project. At the July meeting the Commission authorized Staff to prepare the three grant applications at a cost of \$5,000-\$6,000.

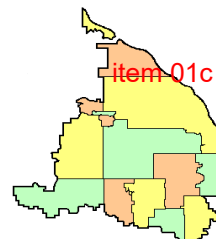
The applications for the Shingle Creek Connections II and the Bass Creek Stabilization projects are very similar. The proposed improvements and expected outcomes are also very similar. Both projects include tree thinning, buffer planting, bank stabilization, and aeration structures such as rock vanes, cover boulders, and root wads. The purpose of the projects is to reduce erosion from the banks; enhance habitat for fish and macroinvertebrates; and maximize reaeration of the stream to raise the concentration of dissolved oxygen, which is currently a stressor to aquatic life.

1. Meadow Lake Management Plan.* Meadow Lake, a small, urban lake in the City of New Hope, is listed as an impaired water for excess nutrients and suffers from nuisance levels of curly-leaf pondweed and fathead minnows. Reducing watershed phosphorus (P) loading to the lake has been a priority since implementation of the lake's TMDL, and many BMPs have been installed; however, internal P loading to the lake is still significant and preventing improvement in the lake's condition. In this project, internal P loading to Meadow Lake will be reduced by approximately 110 lbs/year through a lake drawdown and two aluminum sulfate treatments.

This application is for Phase II of this project, which includes water quality, sediment, fish, and submersed aquatic vegetation (SAV) monitoring following a whole-lake draw down (Phase I) in Fall 2020 and two doses of aluminum sulfate treatment to control phosphorus (P) release from lake sediments. Anticipated outcomes of the project aside from reduced lake P loading include increased water clarity, reduced chlorophyll-a concentrations, and a diverse native aquatic vegetation community. Total cost for Phase II is \$191,910. The grant request is for \$153,510, with a Commission match of \$38,400.

2. Shingle Creek Connections II.* The purpose of this project is to improve water quality and biotic integrity in Shingle Creek in the cities of Brooklyn Park and Brooklyn Center. Shingle Creek is an Impaired Water for low dissolved oxygen, excess E. coli, and an impaired macroinvertebrate community. Approximately 1,750 linear feet between Regent/Noble Avenues N and Brooklyn Boulevard will be improved by thinning trees, establishing native vegetation in the buffer and on the banks, repairing erosion, enhancing habitat, and introducing low-flow sinuosity and reaeration opportunities with rock vanes and root wads. Reaches upstream and downstream have been restored; this is a "missing link" segment that will result a continuous 2.5-mile corridor of urban stream restoration. The outcome will be enhanced habitat for aquatic and upland wildlife, improved water quality, and improved stream aeration. The total cost of this project is \$410,000, with a grant request of \$328,000 and a Commission match of \$72,000.

3. Bass Creek Restoration Project.* The purpose of the Bass Creek Restoration Project is to improve water quality and biotic integrity in Bass Creek in the City of Brooklyn Park. Bass Creek



is an Impaired Water for excess chloride and an impaired fish community. Approximately 1,400 linear feet between Cherokee Drive N and I-94/694 will be improved by thinning trees, establishing native vegetation in the buffer and on the banks, enhancing habitat, and introducing low-flow sinuosity and reaeration opportunities with rock vanes and root wads. This reach of the stream flows through Bass Creek Park with an adjacent bicycle/pedestrian trail. The project will improve aesthetics and provide an opportunity for park user education about native habitat and stream ecology. The outcome will be enhanced habitat for aquatic and upland wildlife, improved water quality, and improved stream aeration. The total cost of this project is \$420,300, with a grant request of \$336,240 and a Commission match of \$84,060.

Motion by Schoch, second by Jaeger to approve submittal of these three applications for Clean Water Grant funding. *Motion carried unanimously.*

B. BWSR Watershed Based Implementation Funding (WBIF).* Included in the meeting packet is a spreadsheet* showing the projects submitted to date on behalf of the Shingle Creek Commission. The Commission had previously authorized submitting the Meadow Lake Management Plan and the Connections II projects. Both projects are also being submitted to the BWSR Clean Water Fund grant program. Staff used the strategy of submitting as the grant request the Commission match portion of the project cost. Should both the CWF and WBIF grants be approved, the Commission would be able to fully fund those projects from grants.

Not all the partners have yet submitted their requests on the shared Google doc. The next Convene meeting is August 24, 2020 and, in order to provide adequate time for review prior to project scoring, applicants have been requested to add their projects to the matrix by Friday, August 14. No projects from West Mississippi have yet been advanced.

IX. Education and Public Outreach.

The **West Metro Water Alliance (WMWA)** met on Tuesday, August 11, 2020. The Coordinator has been working through the survey responses and seeking fresh new ways to provide virtual education. The Educators are also refreshing the website with new content and creating a clearing house for on-line home schoolers, converting classroom presentations to on-line presentations and posting to the website. The group has also received commitments from five sources to pay for the root displays. The next (virtual) WMWA meeting is scheduled for September 8.

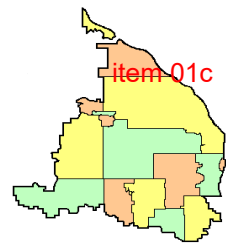
X. Staff Report.*

A. Project Review Fees. Staff is still researching alternative fee structures, including potentially simply charging the applicant the actual cost of the project review. The TAC has received the Elm Creek WMO recommended policy and will consider options at its August 27 meeting and bring a recommendation to the Commissions.

B. County Levies. The Hennepin County Board approved the Commissions' requests to set maximum levies as requested with no changes.

C. Project Updates

1. SRP Reduction Project. Monitoring is underway. As noted previously, monitoring results continue to be less pronounced than last year, but the incoming SRP concentrations are lower than last year as well.



2. Crystal Lake Management Plan. Sediment core results have been received and are being reviewed. Staff have received the DNR special permit for fisheries research to perform the carp aging study, which has not yet been scheduled but will be completed in the next several weeks.

3. Bass and Pomerleau Lakes. The second round of alum treatment is currently being bid and is expected to occur later this fall. Sediment core results have been analyzed to determine the effectiveness of the first dose and no adjustments are necessary. The filamentous algae bloom on Bass Lake this spring has mostly cleared up. Phosphorus concentrations in Bass and Pomerleau continue to be well below the state standard at both the surface and bottom samples.

4. Meadow Lake Drawdown. Staff have completed the design and are finalizing the water appropriation permit for the drawdown. They are still working with the DNR specifically in regard to a turtle conservation plan. On August 10, 2020, the New Hope City Council held the required public hearing on the drawdown. About eight residents attended the virtual meeting; most spoke in support of the drawdown. One resident submitted written comments opposing the drawdown. The Meadow Lake Watershed Association canvassed the neighborhood and received signatures of consent from 93% of the riparian property owners; state law requires a minimum of 75%.

XI. Communications.

July **Communications Log.*** No items required action.

XII. Other Business.

Motion by Schoch, second by Grant to approve an **amendment to the Bass Pomerleau Alum Treatment Agreement** adjusting the cost of the combined treatments and using funds from the Closed Project Account to fund the disparity. *Motion carried unanimously.*

XIII. Adjournment. There being no further business before the Commissions, the joint meeting was adjourned at 1:58 p.m.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Judie A. Anderson'.

Judie A. Anderson
Recording Secretary

JAA:tim

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Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: September 4, 2020

Subject: Public Hearing 2020 Capital Projects
Project 2020-01 Shingle Creek City Cost Share BMPs
Project 2020-02 Connections II Stream Restoration
Project 2020-03 Plymouth Enhanced Street Sweeper
Project 2020-04 Meadow Lake Management Plan
Project 2020-05 Bass Creek Restoration
Project 2020-06 2020 Partnership Cost Share
Project 2020-07 West Mississippi Cost Share BMPs
Project 2020-08 Mississippi Crossings Phase B Infiltration Vault
Project 2020-09 River Park Stormwater Improvements

Recommended Commission Action

Conduct the public hearing. Adopt resolutions ordering TAC/staff-recommended projects and certifying levies.

The Commissions have previously received feasibility reports on these projects. On August 13, 2020 the Commissions called for a public hearing on September 10, 2020 to consider proposed projects to levy in 2020 for collection in 2021. The cities and the county have been notified and notice has been duly published. Tables 1 and 2 show the projects under consideration, followed by short project descriptions.

COMMISSION ACTION

The purpose of the public hearing is to present the proposed projects financing and to take comment from the member cities and the public. The recommended order of business is as follows:

1. Staff report on projects and proposed financing
2. Commissioner discussion
3. Each Commission should open a public hearing, which can run concurrently
4. Take comments from member cities
5. Take comments from the public
6. Close the public hearings
7. Commissioner discussion
8. The Shingle Creek Commission should consider the following resolution (a 2/3 majority is required):
A RESOLUTION ORDERING 2020 IMPROVEMENTS, DESIGNATING
MEMBER RESPONSIBLE FOR CONSTRUCTION, MAKING FINDINGS
AND CERTIFYING COSTS TO HENNEPIN COUNTY PURSUANT TO
MINNESOTA STATUTES, SECTION 103B.251

9. The West Mississippi Commission should consider the following resolution (a 2/3 majority is required):

A RESOLUTION ORDERING 2020 IMPROVEMENTS, DESIGNATING MEMBER RESPONSIBLE FOR CONSTRUCTION, MAKING FINDINGS AND CERTIFYING COSTS TO HENNEPIN COUNTY PURSUANT TO MINNESOTA STATUTES, SECTION 103B.251

10. Continue with regular meetings

Table 1. Shingle Creek 2020 CIP Projects (2021 levy).

| Project | Total Estimated | City/ Private | Grant | Commission Share |
|--|--------------------|------------------|------------|--------------------|
| Cost Share (city projects) | \$200,000 | \$100,000 | 0 | \$100,000 |
| Connections II Stream Restoration | 400,000 | 0 | 0 | 400,000 |
| Plymouth Street Sweeper | 350,000 | 275,000 | 0 | 75,000 |
| Meadow Lake Management Plan | 300,000 | 0 | 0 | 300,000 |
| Bass Creek Restoration | 400,000 | 0 | 0 | 400,000 |
| Partnership Cost Share (private projects) | 100,000 | 50,000 | 0 | 50,000 |
| Subtotal | \$1,750,000 | \$425,000 | \$0 | \$1,325,000 |
| 5% additional for legal/admin costs | | | | 66,250 |
| Subtotal | | | | 1,391,250 |
| TOTAL LEVY (101% for uncollectable) | | | | \$1,405,165 |

Table 1b. Levy by Project

| Project | Total Levy |
|---|--------------------|
| Cost Share (city projects) | \$106,050 |
| Connections II Stream Restoration | 424,200 |
| Plymouth Street Sweeper | 79,540 |
| Meadow Lake Management Plan | 318,150 |
| Bass Creek Restoration | 424,200 |
| Partnership Cost Share (private projects) | \$53,025 |
| Total | \$1,405,165 |

Table 2. West Mississippi 2020 CIP Projects (2021 levy).

| Project | Total Estimated | City/ Private | Grant | Commission Share |
|--|------------------|------------------|-------------|------------------|
| Cost Share (city projects) | \$100,000 | \$50,000 | 0 | \$50,000 |
| Miss Crossings Phase B Infiltration Vault | 400,000 | 300,000 | 0 | 100,000 |
| River Park Stormwater Improvements | 485,000 | 363,750 | 0 | 121,250 |
| Subtotal | \$985,000 | \$713,750 | \$ 0 | \$271,250 |
| 5% additional for legal/admin costs | | | | 13,560 |
| Subtotal | | | | 284,810 |
| TOTAL LEVY (101% for uncollectable) | | | | \$287,660 |

Table 2b. Levy by project.

| Project | Total Estimated |
|---|------------------|
| Cost Share (city projects) | \$53,025 |
| Miss Crossings Phase B Infiltration Vault | \$106,050 |
| River Park Stormwater Improvements | 128,585 |
| Total | \$287,660 |

Shingle Creek Projects

Commission Fund for Retrofit Cost Share (City Projects). This annual project provides cost sharing to retrofit smaller BMPs. The TAC developed policies and procedures to administer these funds and makes recommendations to the Commissions on which projects should be funded. Brooklyn Park, Brooklyn Center, Minneapolis, Crystal, Robbinsdale, and New Hope have all received matching funds for small voluntary BMP projects. The annual levy is \$100,000, to be matched at least one-to-one by a member city or cities. Applications are open until funds are depleted. Potential cost-share projects for 2021 will be solicited in November-December 2020, but the program is open until all funds have been used.

Priority BMP Retrofits (Private Partnership Projects). The annual levy is \$50,000, and funding does not require a match. Potential cost-share projects are open year-round until the funds are depleted.

Connections II Stream Restoration. This project in the cities of Brooklyn Park and Brooklyn Center will restore 1,750 linear feet of stream habitat in Shingle Creek and will reduce sediment and phosphorus pollution originating from this stretch of stream by 75-80%. Stream segments upstream and downstream of this reach have previously been improved. Completing this segment will result in an almost 2.5-mile-long corridor of restored urban stream.

Plymouth Street Sweeper. The City of Plymouth intends to purchase a regenerative air street sweeper. to enhance its street sweeping program and increase the frequency of sweeping in the vicinity of impaired waters. Street sweeping is one of the most cost-effective best management practices for improving water quality and reducing pollutant loading to streams and lakes.

Meadow Lake Management Plan. This project in the City of New Hope will control invasive fish and plants and regenerate the native seedbank of the lake by completing a whole lake draw down. The project will also include the installation of some fish barriers, as well as education and outreach. Once the biology is restored, an alum treatment may be completed.

Bass Creek Restoration. This project will improve 1,500 linear feet of stream by restoring the natural shape of the channel, adding features like gravel riffles, thinning the tree canopy, and restoring understory stream buffer vegetation. This project will also reconnect the stream to its adjacent floodplain to ensure adequate conveyance of flood flows and install a flow through filter to remove phosphorus from water leaving the upstream wetland and entering Bass Creek. The project runs from Cherokee Dr N to I-94/694 in the City of Brooklyn Park.

West Mississippi Projects

Commission Fund for Retrofit Cost Share (City Projects). Similar to Shingle Creek, this annual project provides cost sharing to retrofit smaller BMPs. No project applications have been received to date.

Mississippi Crossings Phase B Infiltration Vault. The City of Champlin will provide regional stormwater treatment for public and private redevelopment for the Mississippi Crossings at TH 169 and the Anoka-Champlin bridge. Runoff from the site will be directed toward a series of infiltration vaults under a common parking lot that serves a mixed residential-commercial development, senior housing complex, public park, amphitheater, public docks, and event center. Private developers on this site will pay a proportionate amount of the costs to construct these vaults. The Commission's share will contribute only to the portion needed to treat the public improvements to the site.

River Park Stormwater Improvements. The City of Brooklyn Park will incorporate a tiered, natural feeling stormwater pond into the planned improvements to River Park. The pond will treat 250 acres of runoff that currently discharges directly to the Mississippi River untreated. These improvements will remove an estimated 60% of total suspended sediments and 29% of phosphorus currently reaching the Mississippi River from this drainage area.

Staff Recommendation

The Technical Advisory Committee (TAC) has recommended that the Commission proceed with all projects. The County Board has approved both maximum levies. Take public comment on the proposed projects. Approve resolutions ordering the projects and certifying the levies.

SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION
RESOLUTION NO. 2020-01

ORDERING 2020 IMPROVEMENTS, DESIGNATING MEMBER
RESPONSIBLE FOR CONSTRUCTION, MAKING FINDINGS,
AND CERTIFYING COSTS TO HENNEPIN COUNTY
PURSUANT TO MINNESOTA STATUTES, SECTION 103B.251

WHEREAS, on April 11, 2013, the Shingle Creek Watershed Management Commission adopted its *Shingle Creek and West Mississippi Third Generation Watershed Management Plan*, which includes a Capital Improvement Program (CIP) that has subsequently been amended six times to modify the CIP; and

WHEREAS, the *Third Generation Watershed Management Plan* specified a county tax levy under Minn. Stat. § 103B.251 as the source of the Commission's share of funding for capital projects proposed in the Commission's CIP; and

WHEREAS, the CIP includes annual allocations for Shingle Creek Cost Share BMPs, hereby known as "Project 2020-01," and Shingle Creek Partnership BMPs, hereby known as "Project 2020-06," and specified a county tax levy under Minn. Stat. § 103B.251 as the source of the Commission's share of funding; and

WHEREAS, the Commission has received Feasibility Studies for CIP projects designated "Project 2020-02 Connections II Stream Restoration;" "Project 2020-03 Plymouth Enhanced Street Sweeper;" "Project 2020-04 Meadow Lake Management Plan;" and "Project 2020-05 Bass Creek Restoration;" and

WHEREAS, on September 10, 2020, following published and mailed notice in accordance with the Commission's Joint Powers Agreement and Minn. Stat. § 103B.251, the Commission conducted a public hearing on the projects.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Shingle Creek Watershed Management Commission as follows:

1. The 2020 Projects will be conducive to the public health and promote the general welfare and are in compliance with Minn. Stat. § 103B.205 to 103B.255 (the "Act") and with the Commission's management plan as adopted and amended in accordance with the Act.
2. The cost of the projects is estimated to be:

| Project | Total Estimated | City/ Private | Grant | Commission Share |
|--|--------------------|------------------|------------|---------------------|
| Cost share (city projects) | \$200,000 | \$100,000 | 0 | \$100,000 |
| Connections II Stream Restoration | 400,000 | 0 | 0 | 400,000 |
| Plymouth Street Sweeper | 350,000 | 275,000 | 0 | 75,000 |
| Meadow Lake Management Plan | 300,000 | 0 | 0 | 300,000 |
| Bass Creek Restoration | 400,000 | 0 | 0 | 400,000 |
| Partnership Cost Share (private projects) | 100,000 | 50,000 | 0 | 50,000 |
| Subtotal | \$1,750,000 | \$425,000 | \$0 | \$1,325,000 |
| 5% additional for legal/admin costs | | | | 66,250 |
| Subtotal | | | | 1,391,250 |
| TOTAL LEVY (101% for uncollectable) | | | | \$1,405,165 |

| Project | Total Levy |
|---|--------------------|
| Cost Share (city projects) | \$106,050 |
| Connections II Stream Restoration | 424,200 |
| Plymouth Street Sweeper | 79,540 |
| Meadow Lake Management Plan | 318,150 |
| Bass Creek Restoration | 424,200 |
| Partnership Cost Share (private projects) | \$53,025 |
| Total | \$1,405,165 |

3. The Commission receives, accepts and approves the feasibility report for Project 2020-02, Connections II Stream Restoration prepared by Wenck, which project is hereby ordered. The Project is described generally as streambank stabilization and habitat enhancement on Shingle Creek in Brooklyn Park and Brooklyn Center.
4. Up to \$400,000 of the cost of Project 2020-02 will be paid by the Commission from proceeds received from Hennepin County pursuant to Minn. Stat. § 103B.251. In addition, costs may be paid from grant funds awarded to the Commission, but no costs will be charged to members of the Commission.
5. The City of Brooklyn Center is designated as the member responsible for contracting for the construction of Project 2020-02, and the engineer designated for preparation of plans and specifications is the Brooklyn Center City Engineer, or other substitute engineers selected and retained by the City of Brooklyn Center. Contracts for construction shall be let in accordance with the requirements of law applicable to the City of Brooklyn Center. A Cooperative Agreement for Project 2020-02 between the Commission and the City of Brooklyn Center is approved, and the Chair and Secretary are authorized and directed to execute the agreement.
6. The Commission receives, accepts and approves the proposal for Project 2020-03, Plymouth Street Sweeper from the City of Plymouth, which project is hereby ordered. The Project is described generally as purchase of a regenerative air street sweeper to enhance the City of Plymouth's street sweeping program to reduce phosphorus, chloride, and sediment washed off pavement into lakes, streams, and wetlands
7. Up to \$75,000 of the cost of Project 2020-03 will be paid by the Commission from proceeds received from Hennepin County pursuant to Minn. Stat. § 103B.251. The balance of the project cost will be borne by the City of Plymouth.
8. The City of Plymouth is designated as the member responsible for contracting for the construction of Project 2020-03, and the person designated for specifying and purchasing said equipment is the Plymouth City Engineer, or other substitute persons selected and retained by the City of Plymouth. Purchasing shall be in accordance with the requirements of law applicable to the City of Plymouth. A Cooperative Agreement for Project 2020-03 between the Commission and the City of Plymouth is approved, and the Chair and Secretary are authorized and directed to execute the agreement.
9. The Commission receives, accepts and approves the proposal for Project 2020-04, Meadow Lake Management Plan prepared by Wenck, which project is hereby ordered. The Project is described generally as a whole lake drawdown, alum treatment, fish and aquatic vegetation management, and monitoring on Meadow Lake in New Hope.

10. Up to \$300,000 of the cost of Project 2020-04 will be paid by the Commission from proceeds received from Hennepin County pursuant to Minn. Stat. § 103B.251. In addition, costs may be paid from grant funds awarded to the Commission, but no costs will be charged to members of the Commission.
11. The City of New Hope is designated as the member responsible for contracting for the construction of Project 2020-04, and the engineer designated for preparation of plans and specifications is the New Hope City Engineer, or other substitute engineers selected and retained by the City of New Hope. Contracts for construction shall be let in accordance with the requirements of law applicable to the City of New Hope. A Cooperative Agreement for Project 2020-04 between the Commission and the City of New Hope is approved, and the Chair and Secretary are authorized and directed to execute the agreement.
12. The Commission receives, accepts and approves the proposal for Project 2020-05, Bass Creek Restoration prepared by Wenck, which project is hereby ordered. The Project is described generally as streambank stabilization and habitat enhancement on Bass Creek in Brooklyn Park.
13. Up to \$400,000 of the cost of Project 2020-05 will be paid by the Commission from proceeds received from Hennepin County pursuant to Minn. Stat. § 103B.251. In addition, costs may be paid from grant funds awarded to the Commission, but no costs will be charged to members of the Commission.
14. The City of Brooklyn Park is designated as the member responsible for contracting for the construction of Project 2020-05, and the engineer designated for preparation of plans and specifications is the Brooklyn Park City Engineer, or other substitute engineers selected and retained by the City of Brooklyn Park. Contracts for construction shall be let in accordance with the requirements of law applicable to the City of Brooklyn Park. A Cooperative Agreement for Project 2020-05 between the Commission and the City of Brooklyn Park is approved, and the Chair and Secretary are authorized and directed to execute the agreement.
15. On July 11, 2014 the Commission adopted Guidelines and procedures governing the use of the Commission City Cost Share BMPs Program. The Shingle Creek Watershed Management Commission will complete Project 2020-01 in accordance with those Guidelines.
16. On December 10, 2015 the Commission adopted Guidelines and procedures governing the use of the Commission Partnership Cost Share BMPs Program. The Shingle Creek Watershed Management Commission will complete Project 2020-06 in accordance with those Guidelines.
17. The Commission's \$1,405,165 share of the cost of the 2020 Projects including administrative costs is hereby certified to Hennepin County in accordance with Minn. Stat. § 103B.251 for payment by the County in accordance with Minn. Stat. § 103B.251, Subd. 6 and the Commission's joint powers agreement. The Commission understands that the County may pay such costs with taxes levied in 2020 and paid in 2021. The Secretary is directed to transmit a certified copy of this resolution to Hennepin County prior to October 1, 2020.

Adopted by the Commissioners of the Shingle Creek Watershed Management Commission the 10th day of September 2020.

R.A. Polzin, Chair

ATTEST:

Judie Anderson, Recording Secretary

State of Minnesota

Hennepin County

I, Judie Anderson, do hereby certify that I am the custodian of the minutes of all proceedings had and held by the Board of Commissioners of said Shingle Creek Watershed Management Commission, that I have compared the above resolution with the original passed and adopted by the Board of Commissioners at a meeting thereof held on the tenth day of September, 2020, at 12:45 pm., that the above constitutes a true and correct copy thereof, that the same has not been amended or rescinded and is in full force and effect.

In witness whereof, I have hereunto placed my hand and signature this __ day of September 2020.

Print
name: Judie Anderson Title: Administrator
Authorized
signature: _____ Date: _____

(NO SEAL)

WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION

RESOLUTION NO. 2020-01

ORDERING 2020 IMPROVEMENTS, MAKING FINDINGS,
 DESIGNATING MEMBER RESPONSIBLE FOR CONSTRUCTION,
 AND CERTIFYING COSTS TO HENNEPIN COUNTY
 PURSUANT TO MINNESOTA STATUTES, SECTION 103B.251

WHEREAS, on April 11, 2013, the West Mississippi Watershed Management Commission adopted its *Shingle Creek and West Mississippi Third Generation Watershed Management Plan*, which includes a Capital Improvement Program (CIP) that has subsequently been amended six times to modify the CIP; and

WHEREAS, the *Third Generation Watershed Management Plan* specified a county tax levy under Minn. Stat. § 103B.251 as the source of the Commission's share of funding for capital projects proposed in the Commission's CIP; and

WHEREAS, the CIP includes an annual allocation for West Mississippi Cost Share BMPs, hereby known as "Project 2020-07," and specified a county tax levy under Minn. Stat. § 103B.251 as the source of the Commission's share of funding; and

WHEREAS, the Commission has received Feasibility Studies for CIP projects designated "Project 2020-08 Mississippi Crossings Phase B Infiltration Vault," and "Project 2020-09 River Park Stormwater Improvements;" and

WHEREAS, on September 10, 2020, following published and mailed notice in accordance with the Commission's Joint Powers Agreement and Minn. Stat. § 103B.251, the Commission conducted a public hearing on the projects.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the West Mississippi Watershed Management Commission as follows:

1. The 2020 Projects will be conducive to the public health and promote the general welfare and are in compliance with Minn. Stat. § 103B.205 to 103B.255 (the "Act") and with the Commission's surface water management plan as adopted and amended in accordance with the Act.
2. The cost of the projects is estimated to be:

| Project | Total Estimated | City/Private | Grant | Commission Share |
|--|------------------|------------------|-------------|------------------|
| Cost Share (city projects) | \$100,000 | \$50,000 | 0 | \$50,000 |
| Miss Crossings Phase B Infiltration Vault | 400,000 | 300,000 | 0 | 100,000 |
| River Park Stormwater Improvements | 485,000 | 363,750 | 0 | 121,250 |
| Subtotal | \$985,000 | \$713,750 | \$ 0 | \$271,250 |
| 5% additional for legal/admin costs | | | | 13,560 |
| Subtotal | | | | 284,810 |

| | | | | |
|--|--|--|--|------------------|
| TOTAL LEVY (101% for uncollectable) | | | | \$287,660 |
|--|--|--|--|------------------|

| Project | Total Estimated |
|---|------------------------|
| Cost Share (city projects) | \$53,025 |
| Miss Crossings Phase B Infiltration Vault | \$106,050 |
| River Park Stormwater Improvements | 128,585 |
| Total | \$287,660 |

3. The Commission receives, accepts and approves the feasibility report for Project 2020-08, Mississippi Crossings Phase B Infiltration Vault prepared by BKV, which project is hereby ordered. The Project is described generally as installation of an underground storage and infiltration system at the Mississippi Crossings redevelopment site in Champlin.
4. Up to \$100,000 of the cost of Project 2020-02 will be paid by the Commission from proceeds received from Hennepin County pursuant to Minn. Stat. § 103B.251. Any additional costs shall be paid by the city of Champlin, but no costs will be charged to members of the Commission.
5. The City of Champlin is designated as the member responsible for contracting for the construction of Project 2020-08, and the engineer designated for preparation of plans and specifications is the Champlin City Engineer, or other substitute engineers selected and retained by the City of Champlin. Contracts for construction shall be let in accordance with the requirements of law applicable to the City of Champlin. A Cooperative Agreement for Project 2020-08 between the Commission and the City of Champlin is approved, and the Chair and Secretary are authorized and directed to execute the agreement.
6. The Commission receives, accepts and approves the feasibility report for Project 2020-09, River Park Stormwater Improvements prepared by WSB, which project is hereby ordered. The Project is described generally as construction of a stormwater pond in River Park in Brooklyn Park.
7. Up to \$121,250 of the cost of Project 2020-09 will be paid by the Commission from proceeds received from Hennepin County pursuant to Minn. Stat. § 103B.251. Any additional costs shall be paid by the city of Brooklyn Park, but no costs will be charged to members of the Commission.
8. The City of Brooklyn Park is designated as the member responsible for contracting for the construction of Project 2020-09, and the engineer designated for preparation of plans and specifications is the Brooklyn Park City Engineer, or other substitute engineers selected and retained by the City of Brooklyn Park. Contracts for construction shall be let in accordance with the requirements of law applicable to the City of Brooklyn Park. A Cooperative Agreement for Project 2020-09 between the Commission and the City of Brooklyn Park is approved, and the Chair and Secretary are authorized and directed to execute the agreement.
9. On July 11, 2014 the Commission adopted Guidelines and procedures governing the use of the Commission Fund for Retrofit Projects. The West Mississippi Watershed Management Commission will complete Project 2020-07 in accordance with those Guidelines.

10. The Commission's \$287,660 share of the cost of the 2020 Projects including administrative costs is hereby certified to Hennepin County Hennepin County in accordance with Minn. Stat. § 103B.251 for payment by the County in accordance with Minn. Stat. § 103B.251, Subd. 6 and the Commission's joint powers agreement. The Commission understands that the County may pay such costs with taxes levied in 2020 and paid in 2021. The Secretary is directed to transmit a certified copy of this resolution to Hennepin County prior to October 1, 2020.

Adopted by the Commissioners of the West Mississippi Watershed Management Commission the 10th day of September, 2020.

Gerald Butcher, Chair

ATTEST:

Judie Anderson, Secretary

State of Minnesota

Hennepin County

I, Judie Anderson, do hereby certify that I am the custodian of the minutes of all proceedings had and held by the Board of Commissioners of said Shingle Creek Watershed Management Commission, that I have compared the above resolution with the original passed and adopted by the Board of Commissioners at a meeting thereof held on the tenth day of September, 2020, at 12:45 pm., that the above constitutes a true and correct copy thereof, that the same has not been amended or rescinded and is in full force and effect.

In witness whereof, I have hereunto placed my hand and signature this ___ day of September, 2020.

Print name: Judie Anderson Title: Administrator

Authorized signature: _____ Date: _____

(NO SEAL)

August 31, 2020

SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION**PROJECT REVIEW SC2020-007: Middle of the Boulevard**

Owner: Linda McGinty
Company: Luther Company, LLLP
Address: 3701 Alabama Avenue South, St. Louis Park, MN 55416

Engineer: Sean Murphy
Company: Landform Professional Services
Address: 105 South Fifth Avenue, Suite 513

Phone: 612-638-0244

Email: smurphy@landform.net

Purpose: Demolition of 2 structures and construction of a parking area and filtration basin on 11.5 acres. The grading and erosion control plans have been approved at the 8/14/2020 meeting.

Location: Three Parcels Adjacent to 7417 Brooklyn Blvd, bound by Brooklyn Blvd and Regent Ave in Brooklyn Park (Figure 1).

Exhibits:

1. Project review application and project review fee of \$2,200, dated 07/30/2020, received 07/30/2020.
2. Site plan, preliminary plat, grading, utility, erosion control, and landscaping plans dated and received 8/11/2020 (first submittal dated 07/28/2020, received 07/30/2020). Updated grading plans (Figure 2) dated 08/24/2020, received 08/27/2020.
3. Hydrologic calculations by Landform Professional Services dated 08/24/2020, received 08/27/2020.

Findings:

1. The proposed project is the destruction of 2 existing structures and the construction of a parking lot and associated landscaping. The site is 11.5 acres. Following development, the site will be 85 percent impervious with 9.8 acres of impervious surface, an increase of 0.25 acres. The grading and erosion control plans for the site were approved at the 08/14/2020 meeting. This review is for the stormwater management on-site.
2. Stormwater plans for the site were received on 08/27/2020. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the October 8, 2020 meeting. Sixty calendar-days expires on Monday October 26, 2020.
3. 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.

Runoff from the Northwest portion of the site is proposed to be routed directly to city storm sewer on Regent Ave. Runoff from the Northeast

SC2020-007:

portion of the site is proposed to be routed directly to Brooklyn Blvd. Runoff from the Southern portion of the site is routed over vegetated soils directly to Shingle Creek. Runoff from the central parking lot area is routed through a sand filtration basin before discharging directly to Shingle Creek. No infiltration is proposed on-site. The applicant used a MIDS model to model TSS and TP load reduction from the entire disturbed impervious area on site and demonstrated that the filtration basin has the capacity to remove 65% of the total TP load and 119% of the total TSS load. The applicant meets Commission water quality treatment requirements.

4. Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site is routed directly northwest to Regent Ave, northeast to Brooklyn Blvd, directly to Shingle Creek, and through a filtration basin to Shingle Creek. The applicant meets Commission rate control requirements (Table 1).

Table 1. Runoff from site (cfs).

| C o | Drainage Area | 2-year event | | 10-year event | | 100-year event | |
|--------|---------------------|--------------|-------|---------------|-------|-------------------|-------|
| | | Pre- | Post- | Pre- | Post- | Pre- | Post- |
| o | To Shingle Cr | 19.0 | 16.9 | 33.2 | 28.3 | 64.5 | 59.1 |
| | To Regent Ave | 9.33 | 9.33 | 14.7 | 14.7 | 26.1 | 26.1 |
| | To Brooklyn Blvd | 2.14 | 2.05 | 4.08 | 3.99 | 8.53 | 8.49 |

5. Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The disturbed impervious area on this site is 39,905 square feet, requiring infiltration of 3,325 cubic feet within 48 hours. Due to low infiltration capacity of soils on-site, the applicant proposes to provide filtration instead of infiltration. The applicant proposes to construct a filtration basin that has the capacity to filter the required volume within 48 hours. The applicant meets Commission volume control requirements.
6. The erosion control plan was approved on 08/14/2020. Filtration basin slopes will be seeded with MNDOT 33-261 or equivalent seed mix.
7. The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements.
8. There are no Public Waters on this site.
9. There is FEMA 100-year floodplain on the southern portion of this site. The FEMA 100-year flood elevation is 859.1 ft. No buildings are proposed within the floodplain. The grading plan was approved on 08/14/2020 and will result in a net storage increase of 722 cubic yards. The applicant meets Commission floodplain requirements.
10. The site is not located in a Drinking Water Management Area (DWSMA). The applicant meets Commission drinking water protection requirements.

SC2020-007:

11. Public hearings on the project have been conducted on 5/13/2020 and 5/26/2020 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.
12. A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park was provided.
13. A Project Review Fee of \$2,200 has been received.

Recommendation: Recommend approval of stormwater plans with no conditions.

Wenck Associates, Inc.
Engineers for the Commission



14 August, 2020

Ed Matthiesen, P.E.

Date

Ed Matthiesen, P.E.

Date

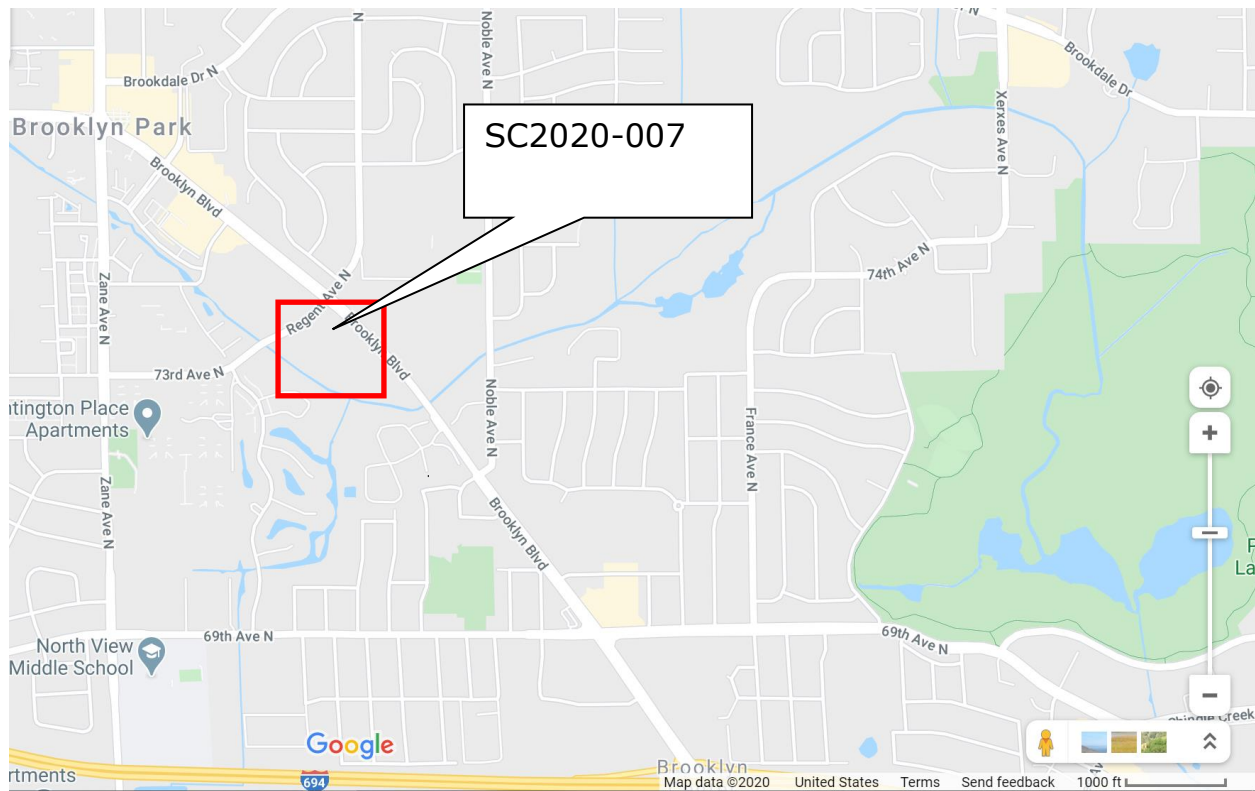
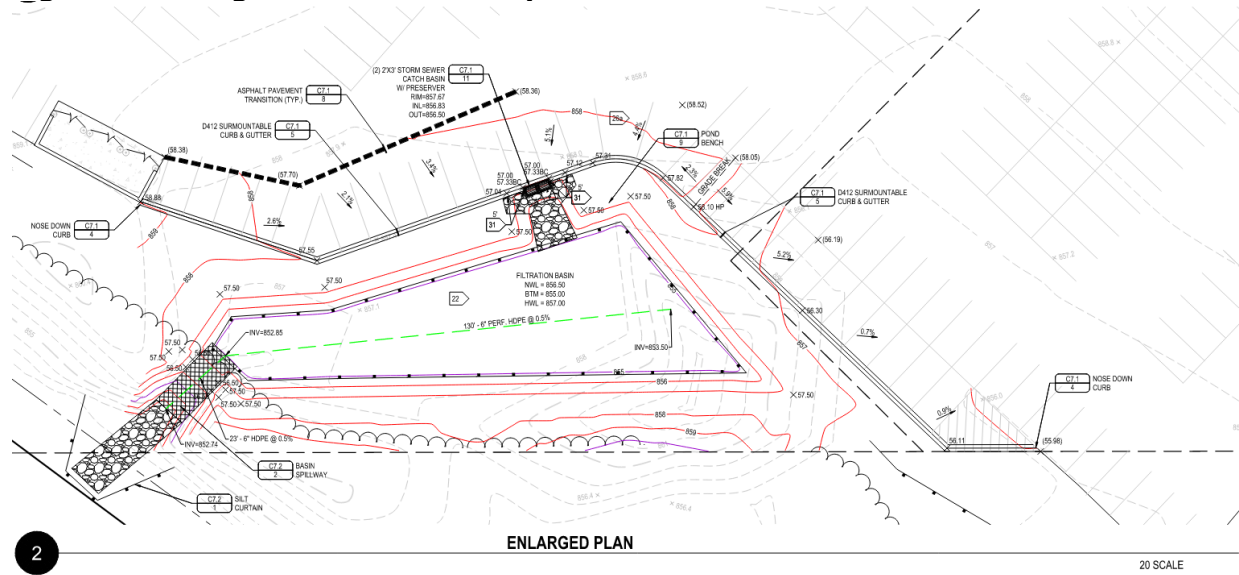
SC2020-007:**Figure 1. Site location.**

Figure 2. Enlarged filtration basin plan.



SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION

PROJECT REVIEW SC2020-008: Crystal MAC Boardwalk Phase 2

Owner: Katie Warner
Company: Three Rivers Park District
Address: 3000 Xenium Ln N
Plymouth, MN 55441

Engineer: Toby Muse, P. E.
Company: SEH
Address: 10901 Red Circle Dr Suite 300
Minnetonka, MN 55343
Phone: 952-912-2616
Email: tmuse@sehinc.com

Purpose: Construction of boardwalk, an elevated education platform, and access ramps from existing trails on 0.11 acres.

Location: Crystal MAC Natural Area at 6001 Regent Ave N, Crystal, MN 55429 (Figure 1).

Exhibits:

1. Project review application dated 8/4/2020, received 8/12/2020. Project review fee of \$1,100 dated 8/6/2020, received by the Commission on 8/26/2020.
2. Site plan, grading plan, and erosion control plan (Figure 2) and details undated, received 8/12/2020.

Findings:

1. The proposed project is the construction of boardwalk, an elevated education platform, and access ramps connecting old and new boardwalk in Crystal MAC Wildlife Area. The entire site is 40 acres and the disturbed area is 0.11 acres. The project does not increase impervious surface on site.
2. The complete project application was received on 8/12/2020. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the 10/8/2020 meeting. Sixty calendar-days expires on 10/11/2020.
3. The erosion control plan includes two rock construction entrances, sediment control log, and erosion control blanket. The work will be completed in the winter when the wetland is frozen to minimize impacts. The erosion control plan meets Commission requirements.
4. The National Wetlands Inventory identifies a wetland on site. The DNR is taking jurisdiction on the wetland impacts for this project and has issued a request for comments on the project.
5. The unnamed creek and wetland on site are DNR Public Waters, and the creek flows south through the site to Twin Lake. The proposed project is not anticipated to negatively impact the creek or wetland. The applicant meets Commission Public Waters requirements.
6. There is a FEMA-regulated floodplain on this site. Less than 0.1 cubic yards of fill in the floodplain are proposed in the form of helical pilings to

SC2020-008:

support the boardwalk. The applicant meets Commission floodplain requirements.

7. The site is located in a Drinking Water Management Area (DWSMA), but infiltration is not expected to be impacted as a result of the project. The applicant meets Commission drinking water protection requirements.
8. A public hearing on the project is not required.
9. A Project Review Fee of \$1,100 has been received.

Recommendation: Recommend approval with no conditions.

Wenck Associates, Inc.
Engineers for the Commission

Ed Matthiesen, P.E.

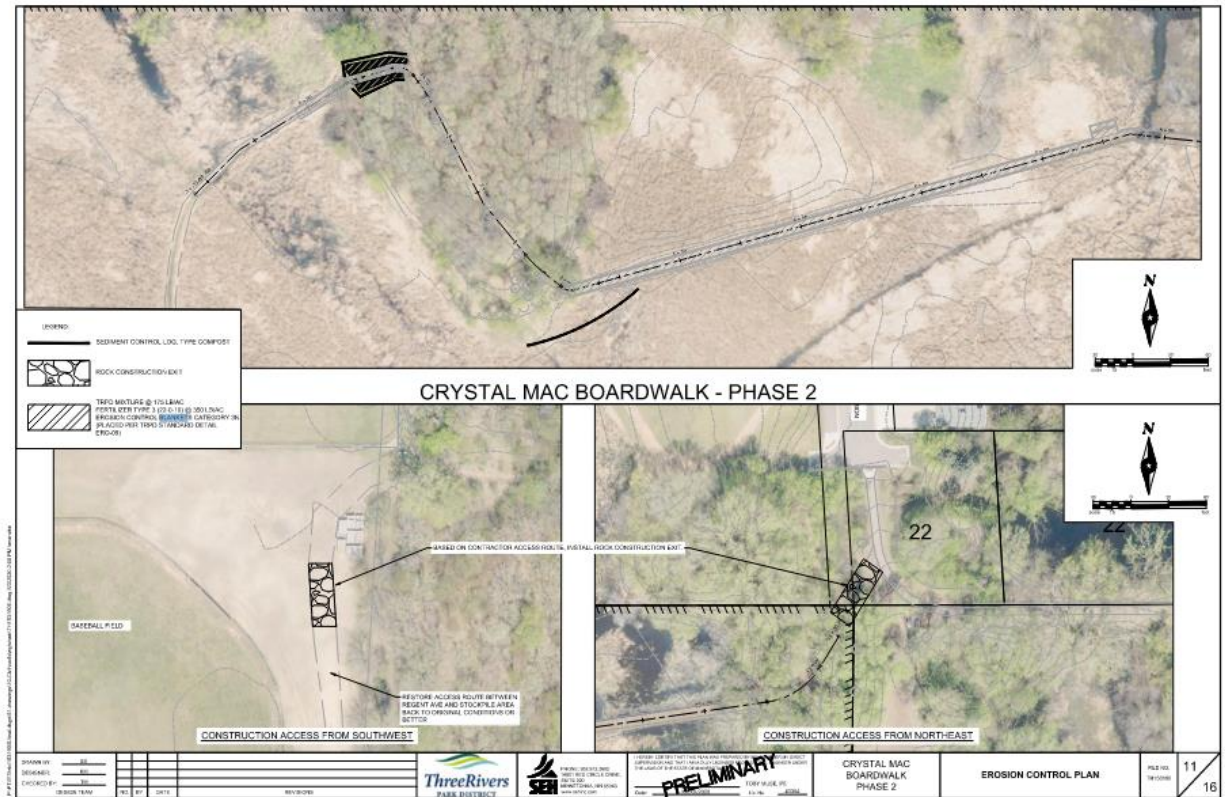
Date

SC2020-008:

Figure 1. Site location.

SC2020-008:

Figure 2. Site erosion control plan.



WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION**PROJECT REVIEW WM2019-010: Mississippi Crossing**

Owner: Greco
Address: 607 N Washington Ave #100
Minneapolis, MN 55401

Engineer: Rhonda Pierce
Company: Pierce Pini & Associates
Address: 9298 Central Avenue NE, Suite 312
Phone: 763-537-1311
Email: rhonda@piercepini.com

Purpose: Construction of apartment complex on 8.39 acres (Phase 1A, approved), reconstruction of East River Parkway, partial reconstruction of a parking lot (Phase 1B, resubmittal), and construction of a parking lot, event center, restaurant, pavilion, amphitheater, and outdoor plazas and sidewalks (Phase 2). This application includes a resubmittal of Phase 1B and submittal of Phase 2.

Location: East River Entry and East River Parkway, Champlin, MN (Figure 1).

Exhibits:

1. Project review application form received 9/27/19.
2. Project review fee of \$1,700, dated 9/30/19, received 9/30/19.
3. Site plan, grading plan, utility plan (Figure 2), drainage plan (Figure 3), and erosion control plan received 9/27/19 (all un-dated); revised plans dated 10/21/19, received 10/22/19. Revised plans dated 10/20/2019, received 10/21/2019. Revised plans dated 7/30/2020, received 8/11/2020.
4. Hydrologic calculations by Pierce Pini & Associates, dated 9/26/19, received 9/27/19; revised hydrologic calculations dated 10/17/19, received 10/22/19; revised hydrologic calculations dated 12/20/19, received 12/21/19, revised hydrologic calculations dated 7/31/2020, received 8/11/2020.

Findings:

1. The proposed project consists of two phases. Phase 1 is the construction of an apartment complex with an associated driveway, sidewalk and plaza. Phase 1 includes two underground stormwater infiltration systems. Phase 2 is the construction of additional driveway, parking areas, and public buildings. Stormwater management features are proposed as part of both phases of the project and are designed to handle stormwater from impervious area associated with the project. The site is 13.6 acres. As of the 8/11/2020 submittal, following development of both phases the site will be 66 percent impervious with 9.00 acres of impervious surface, an increase of 6.55 acres.
2. The complete project application was received on 9/30/19. The project submittal for phase 1A and 1B was approved by the Commission on 01/10/20, but grading for phase 1B has since been updated. Phase 2 is being reviewed in this submittal.

WM 2019-010: Mississippi Crossing

3. 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, i.e., 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.

Runoff from the site is routed to three separate corrugated metal pipe infiltration systems, permeable paver systems, and infiltration basins with drain tile. These underground infiltration systems have the capacity to infiltrate 1.3 inches of runoff. The MIDS calculation for the entire site indicates an annual TSS load reduction of 87% and annual TP load reduction of 78% from all BMPs, meeting Commission requirements for water quality. In addition, at each inlet to the underground infiltration systems, a 6-ft sump with SAFL Baffle provides pretreatment to stormwater before it enters the system. All proposed SAFL Baffles provide more than 80% removal of suspended solids according to SHSAM calculations. The applicant meets Commission water quality treatment requirements.

4. Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. As referenced in the 8/11/2020 resubmitted stormwater report, the City of Champlin and West Mississippi WMC waived the rate control requirements for the site due to its proximity to the outfall structure to the Mississippi River. The site must instead meet the water quality requirement of infiltrating runoff from the 1.3" rain event on site.
5. Commission volume control rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. However, this site must infiltrate 1.3 inches of runoff to additionally meet water quality requirements. The new impervious area for the entire site as of August 2020 is 6.55 acres, requiring infiltration of 0.71 acre-feet (30,927 cubic feet) within 48 hours. The applicant proposes that three infiltration systems, permeable pavers, and filtration basins will infiltrate 46,072 cubic feet within 48 hours. The applicant meets Commission volume control requirements.
6. The erosion control plan includes a rock construction entrance, perimeter silt fence and inlet protection. The erosion control plan meets Commission requirements.
7. The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements.
8. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.
9. Grading for the amphitheater and fill at the existing boat launch are proposed within the limits of the Mississippi River FEMA floodway. The applicant has demonstrated a no-rise condition of 0.00 feet within the floodway. The applicant meets Commission floodplain requirements.

WM 2019-010: Mississippi Crossing

10. The site is not located in a Drinking Water Management Area (DWSMA). The applicant meets Commission drinking water protection requirements.
11. A public hearing on the project was conducted on 11/18/19 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.
12. A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Champlin has not been provided. However, the applicant wrote in an email to Sarah Nalven of Wenck Associates on 10/22/19: "The City and Owner have discussed this agreement, but nothing has been developed yet. They will keep you in the loop when this is developed to make sure the watershed has a copy of the draft."
13. A Project Review Fee of \$1,700 has been received.

Recommendation: Recommend approval subject to the following conditions:

1. Provide a complete O&M agreement between the applicant and the City of Champlin for all stormwater facilities on the project site.
2. Demonstrate by double ring infiltrometer or witness test that the underground infiltration systems, drain tile systems, and permeable pavers can meet the design infiltration rate of 0.80 inches/hour.

Wenck Associates, Inc.
Engineers for the Commission



November 20, 2019

Ed Matthiesen, P.E.

Date



January 10, 2020

Ed Matthiesen, P.E.

Date

Approved Revision

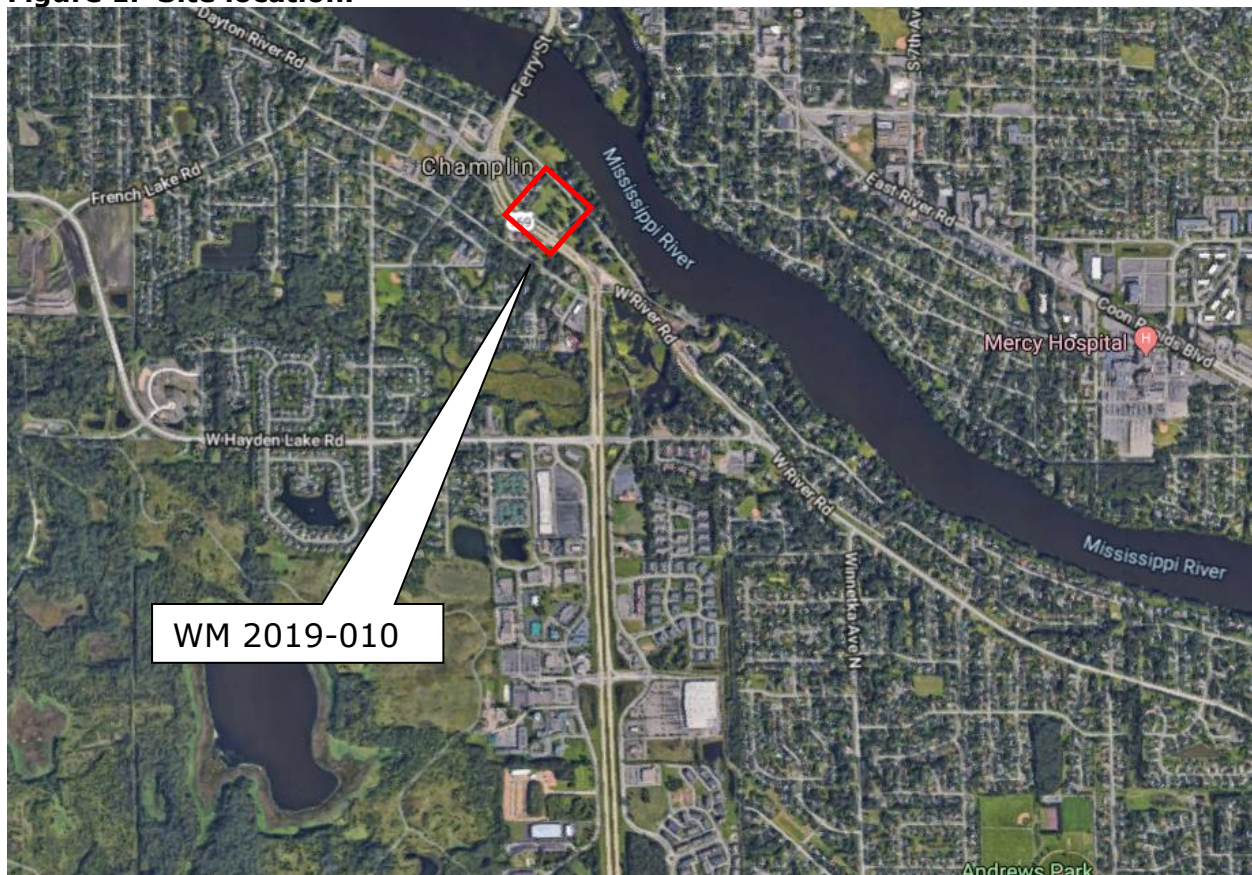
Ed Matthiesen, P.E.

Date

Approved Revision

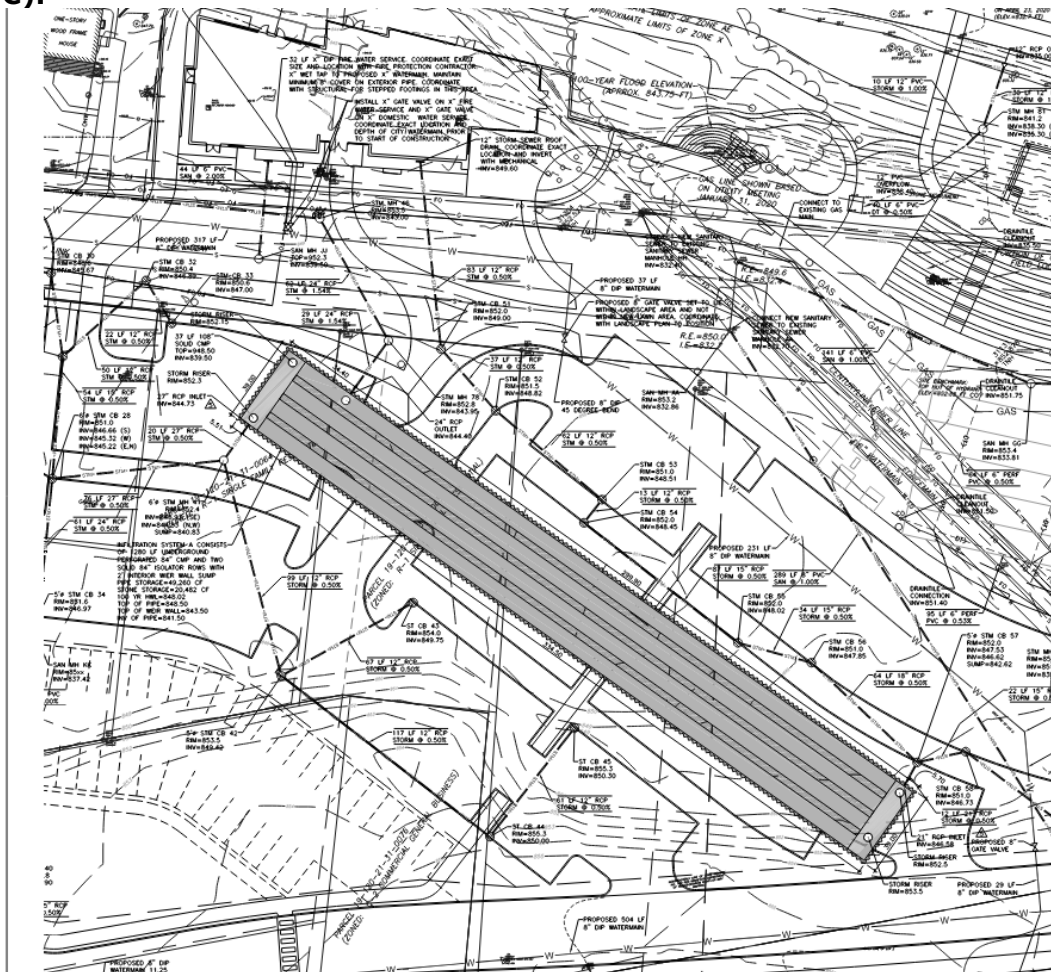
WM 2019-010: Mississippi Crossing

Figure 1. Site location.

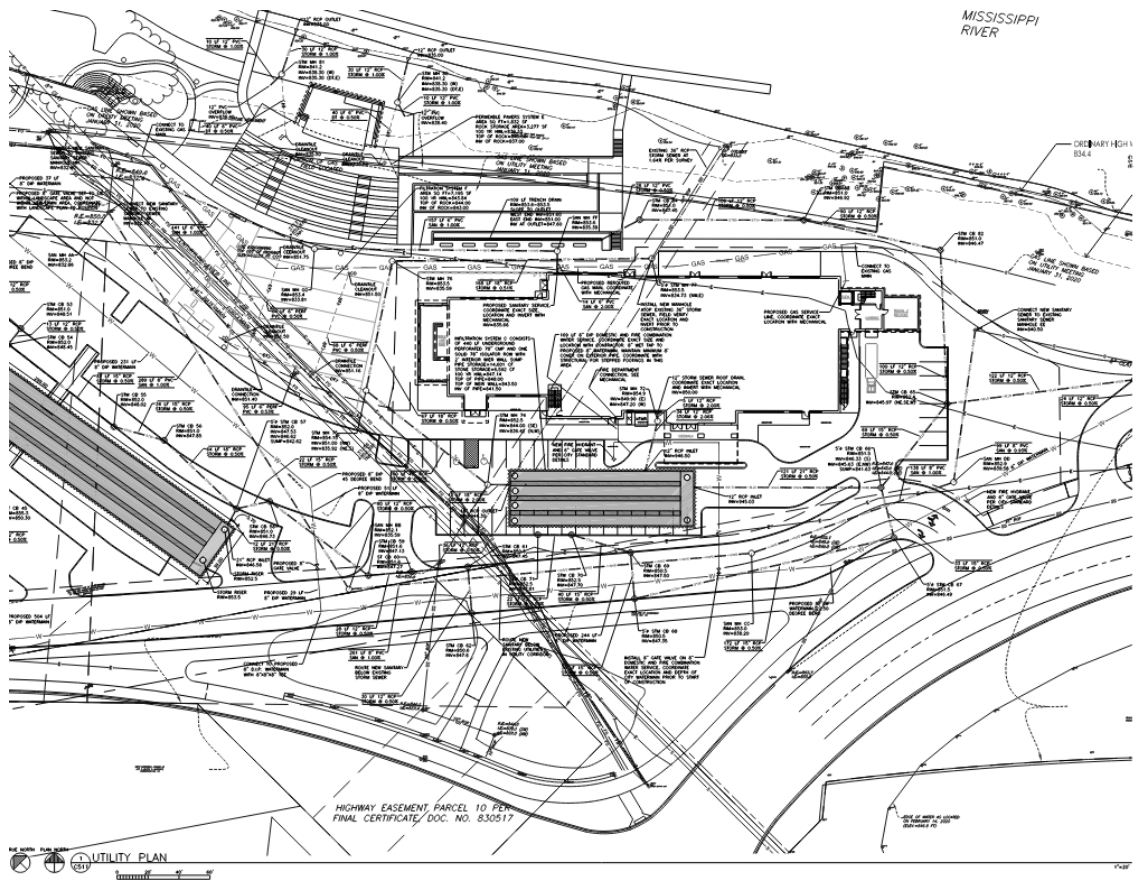


WM 2019-010: Mississippi Crossing

Figure 2. Site utility plans (top: infiltration system B; bottom: infiltration system C).



WM 2019-010: Mississippi Crossing



WM 2019-010: Mississippi Crossing

Figure 3. Site drainage plan



WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION

PROJECT REVIEW WM2020-006: Woodspring Suites Hotel

Owner: Dave Link
Company: SOTA Partners
Address: 2399 Wayzata Blvd. W. #100

Engineer: Pete Moreau
Company: Sambatek
Address: 12800 Whitewater Drive, Suite #300, Minnetonka, MN 55343

Phone: 763-476-6010
Fax:
Email: pmoreau@sambatek.com

Purpose: Construction of a 13,000 sf hotel on 4.4 acres.

Location: 9489 Winnetka Ave N, Brooklyn Park, MN 55445 (Figure 1).

Exhibits:

1. Project review application and project review fee of \$1,700, dated 08/03/2020, received 08/12/2020.
2. Site plan, preliminary plat, grading (Figure 2), utility, erosion control, and landscaping plans dated 08/05/2020, received 08/10/2020.
3. Hydrologic calculations by EVS, Inc, dated 06/30/2014, received 08/10/2020.

Findings:

1. The proposed project is the construction of a 13,000 sf 4-story hotel building and associated parking lot. The site is 4.9 acres. Following development, the site will be 33.7 percent impervious with 1.65 acres of impervious surface, an increase of 1.65 acres.
2. The complete project application was received on 08/12/2020. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the 10/08/2020 meeting. Sixty calendar-days expires on 10/11/2020.
2. 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.

Runoff from the site is proposed to be routed through a series of catch basins in the parking lot to ultimately discharge to the existing regional infiltration pond in the western portion of the site. Pretreatment will be provided by a 3' sump and a hydrodynamic separator prior to discharging to the pond. The applicant meets Commission water quality treatment requirements by providing storage for a 1.3" rainfall off the entire site's impervious surface.

WM 2020-006:

3. Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. All runoff from the site is routed through a series of catch basins in the proposed parking lot before discharging to an existing regional infiltration pond on the western portion of the site. The existing pond was designed to infiltrate runoff from the 14.3-acre combined area of the north and west parcels with 75% impervious surface. The proposed 1.65 acres of new impervious will increase the impervious percentage of the area to 66%, which is within the treatment capacity of the pond. The pond only releases stormwater during the 100-yr event (45.4 cfs). Total site runoff to the northern MnDOT Right of Way includes outflow from the pond on-site and runoff from other portions of the Northcross Business park. The applicant meets Commission rate control requirements (Table 1).

Table 1. Runoff from site (cfs).

| Drainage Area | 2-year event | | 10-year event | | 100-year event | |
|--------------------------------|--------------|-------|---------------|-------|----------------|-------|
| | Pre- | Post- | Pre- | Post- | Pre- | Post- |
| Total park runoff to MnDOT ROW | 16.3 | 6.25 | 35.6 | 12.4 | 82.2 | 72.4 |

4. Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 1.65 acres, requiring infiltration of 0.14 acre-feet within 48 hours. The applicant proposes to route runoff to a regional infiltration pond that has the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission volume control requirements.
5. The erosion control plan includes a rock construction entrance, perimeter silt fence, silt fence bordering the infiltration basin, inlet protection, rip rap at inlets, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.
6. The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements.
7. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.
8. There is no FEMA-regulated floodplain on this site. The applicant meets Commission floodplain requirements.
9. The site is located in a Drinking Water Management Area, but is outside of the Emergency Response Area. Therefore, infiltration is permitted, but infiltrated water must first filter through 1 foot of soil, the top four inches of which are amended topsoil, and the bottom 8 inches of which are tilled. The applicant proposes to infiltrate runoff from the site in an existing regional basin. The applicant meets Commission drinking water protection requirements.
10. Public hearings on the project will be conducted on 9/9/20 and 9/14/20 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

WM 2020-006:

11. A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park was provided.
12. A Project Review Fee of \$1,700 has been received.

Recommendation: Recommend approval with no conditions.

Wenck Associates, Inc.
Engineers for the Commission

Ed Matthiesen, P.E.

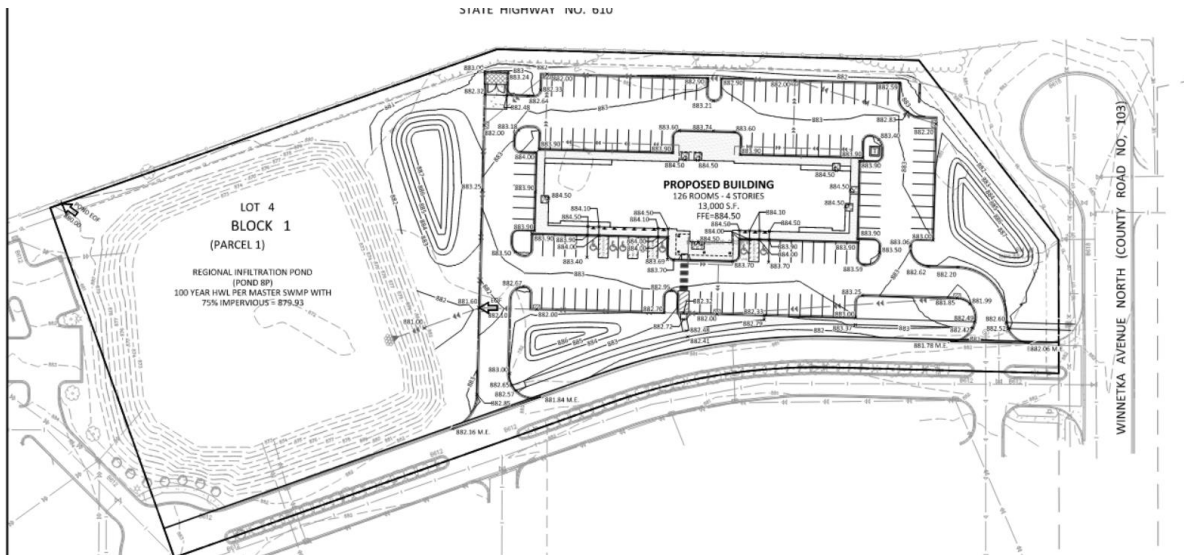
Date

WM 2020-006:

Figure 1. Site location.



Figure 2. Site grading plan.



WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION

PROJECT REVIEW WM2020-007: North Park Business Center - DataBank

Company: Scannell Properties #258 LLC
Address: 8801 River Crossing Blvd, Suite 300
Indianapolis, IN

Engineer: Trisha D. Sieh
Company: Kimley-Horn & Associates
Address: 767 Eustis Street, Suite 100
St. Paul, MN 55114
Phone: 651-643-0470
Email: trisha.sieh@kimley-horn.com

Purpose: Construction of two buildings on 14.4 acres.

Location: Lot 2 Block 1, NorthPark Business Center Third Addition in Brooklyn Park, MN (Figure 1).

Exhibits:

1. Project review application and project review fee of \$2,200, dated 8/27/2020, received 8/28/2020.
2. Site, grading (Figure 2), utility, erosion control, and landscaping plans dated 8/3/2020, received 8/28/2020.
3. Hydrologic calculations by Kimley-Horn, dated 7/30/2020, received 8/28/2020.

Findings:

1. The proposed project is the construction of two buildings in a business park. The site is 14.4 acres. Following development, the site will be 74 percent impervious with 10.7 acres of impervious surface, an increase of 10.5 acres.
2. The complete project application was received on 8/27/2020. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the 10/8/2020 meeting. Sixty calendar-days expires on 10/26/2020.
2. 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.

Runoff from the site is proposed to be routed southwest from the site through two stormwater ponds to an infiltration basin, and north to a storm sewer that drains to a wet pond and ultimately to an infiltration basin. The applicant meets Commission water quality treatment requirements.
3. Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. The applicant

WM 2020-007:

proposes to manage all runoff on-site. The applicant meets Commission rate control requirements (Table 1).

Table 1. Runoff from site (cfs).

| Drainage Area | 2-year event | | 10-year event | | 100-year event | |
|-------------------|--------------|-------|---------------|-------|----------------|-------|
| | Pre- | Post- | Pre- | Post- | Pre- | Post- |
| All subcatchments | | 0 | | 0 | | 0 |

4. Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 10.5 acres, requiring infiltration of 0.9 acre-feet within 48 hours. The applicant proposes to infiltrate all runoff onsite due to highly permeable soils that has the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission volume control requirements.
5. The erosion control plan includes rock construction entrances, perimeter silt fence, silt fence along pond borders, inlet protection, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.
6. The National Wetlands Inventory does not identify any wetlands on site.
7. There are no Public Waters on this site.
8. There is no FEMA-regulated floodplain on this site.
9. In a telephone conversation on 5/29/14 between Erik Megow of Wenck Associates and Dan Bowar of EVS Engineering, Mr. Bowar had stated that there is no known groundwater contamination on the project site.
10. Public hearings on the project are scheduled for 9/9/2020 and 9/28/2020 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.
11. A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park was not provided, but in an email to Katie Kemmitt on 9/3/2020 Trisha Sieh acknowledged that an agreement will need to be written.
12. A Project Review Fee of \$2,200 has been received.

Recommendation: Recommend approval subject to the following condition(s):

1. Provide a complete O&M agreement between the applicant and the City of Brooklyn Park for all stormwater facilities on the project site.
2. Update grading plans to show pond P-B inlets with rip rap extending to the pond bottom.

WM 2020-007:

Engineers for the Commission

Ed Matthiesen, P.E.

Date

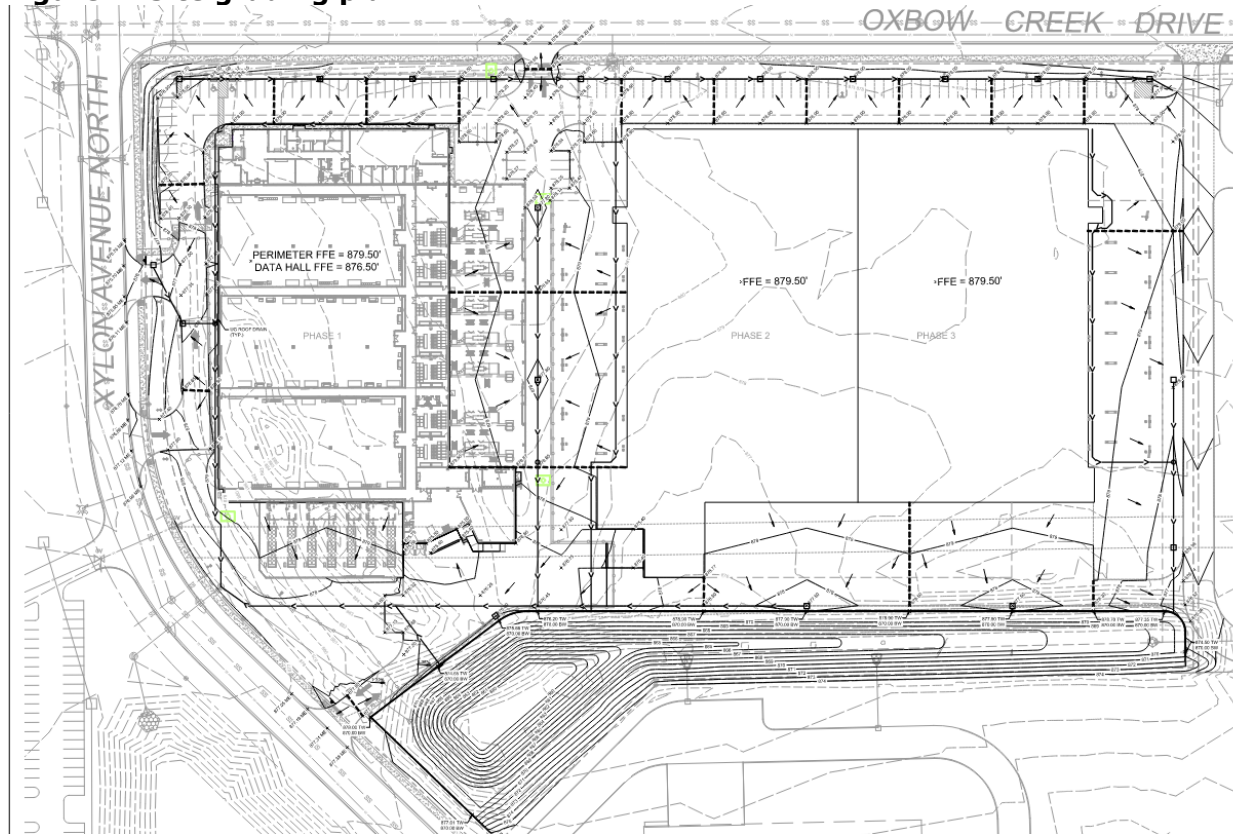
WM 2020-007:

Figure 1. Site location.



WM 2020-007:

Figure 2. Site grading plan.



Technical Memo



To: Shingle Creek WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: May 4, 2018

Subject: Bass and Pomerleau Lakes Assurance Agreement

**Recommended
Commission Action**

Authorize execution of the proposed agreement with BWSR subject to the review and approval of the Commission attorney.

The Board of Water and Soil Resources (BWSR) awarded the Shingle Creek WMC a Clean Water Fund grant to help fund the Bass and Pomerleau Lakes Alum Treatment project. In 2017 BWSR adopted policies specifying that grant recipients must provide both technical and project assurances that the BMPs completed using the grant funds achieve the promised objectives. Further, the recipient must assure that if the objectives are not achieved, the recipient will take action at its own expense to ensure the project goals are met. The Commission's attorney has drafted the attached agreement for this purpose.

In a nutshell, the Commission agrees to provide technical assurance through pre-construction, mid-treatment, and post-construction sediment core release rate tests demonstrating that the desired reduction in release rate has been achieved. The project assurance will be provided by agreeing to periodically monitor water quality in the two lakes, and if the improved water quality and clarity does not persist over the 20 year life span expected of BMPs, then the Commission will work together with the City of Plymouth to undertake other BMPs to reduce nutrient load to the lakes.

As of this date BWSR staff are still reviewing the draft agreement. It is staff's recommendation that if the Commission is amenable to the concepts presented above, that staff and the attorney be directed to work with BWSR to make any required revisions. It is further recommended that when the attorney and BWSR are satisfied with the agreement, the Chair is authorized to execute the agreement on behalf of the Commission.

**FIRST AMENDMENT TO THE COOPERATIVE AND SUBGRANT AGREEMENT
FOR THE BASS AND POMERLEAU LAKES ALUM TREATMENT PROJECT**

This First Amendment to the Cooperative and Subgrant Agreement for the Bass and Pomerleau Lakes Alum Treatment Project (“**Amendment**”) is entered into by and between the Shingle Creek Watershed Management Commission, a joint powers watershed management organization, (“**Commission**”) and the City of Plymouth, a Minnesota municipal corporation, (“**City**”). The Commission and the City may hereinafter be referred to individually as a “party” and collectively as the “parties.”

RECITALS

- A. The Commission and the City entered into a Cooperative and Subgrant Agreement for Bass and Pomerleau Lakes in 2018 (“Cooperative Agreement”) in which the City agreed, in consideration of the Commission providing a reimbursable grant of up to \$195,000, to assume, as subgrantee, certain duties and responsibilities of the Commission, as grantee, under a BWSR Grant Agreement and to undertake two phases of alum treatments in Bass and Pomerleau Lakes (“Project”).
- B. The City completed the first phase of the Project, but because the estimated cost of the second phase will cause the total Project cost to exceed the original \$195,000 maximum reimbursement amount, the City has requested the Commission increase that amount to allow it to complete the Project.
- C. The parties desire to enter into this Amendment to provide for an increase the maximum reimbursement amount available under the Cooperative Agreement to \$245,000.

AMENDMENT

- I. Reimbursement Limit. The parties hereby agree to amend Section 5 of the Cooperative Agreement by adding the double-underlined material and deleting the ~~stricken~~ material as follows:
 - 5. Limits on Reimbursement. The total reimbursement paid by the Commission to the City for the Project will not exceed the cost of the alum treatment contract, estimated to be ~~One Hundred Ninety Five Thousand Dollars (\$195,000)~~ Two Hundred Forty Five Thousand Dollars (\$245,000). Reimbursement will not exceed the costs and expenses incurred by the City for the Project, less any amounts the City receives for the Project as grants from other sources. All costs of the Project incurred by the City in excess of such reimbursement, including all costs incurred in excess of estimated project costs due to unforeseen conditions or any other cause, shall be borne by the City or secured by the City from other sources.

- II. No Other Modifications. The parties agree this Amendment is limited to adjusting the maximum reimbursement limit for the total Project and does not otherwise change the terms, conditions, or obligations of the parties under the Cooperative Agreement.

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed by their duly authorized officers on behalf of the parties and is effective as of the date of the last party to execute it.

**SHINGLE CREEK WATERSHED
MANAGEMENT COMMISSION**

By: _____
Its Chair

And by: _____
Its Administrator

Date: _____

CITY OF PLYMOUTH

By: _____
Its Mayor

And by: _____
Its City Manager

Date: _____

**COOPERATIVE AND SUBGRANT AGREEMENT
FOR
BASS AND POMERLEAU LAKES ALUM TREATMENT PROJECT**

This Cooperative and Subgrant Agreement ("**Agreement**") is made as of this ____ day of _____, 2018 by and between the Shingle Creek Watershed Management Commission, a joint powers watershed management organization, ("**Commission**") and the City of Plymouth, a Minnesota municipal corporation, ("**City**"). The Commission and the City may hereinafter be referred to individually as a "party" and collectively as the "parties."

RECITALS

- A. On April 11, 2013, the Commission and the West Mississippi Watershed Management Commission jointly adopted the Shingle Creek and West Mississippi Third Generation Watershed Management Plan ("**Plan**"), a watershed management plan within the meaning of Minn. Stat. § 103B.231.
- B. The Plan includes a capital improvement program ("**CIP**") that lists a number of water quality project capital improvements.
- C. The water quality projects identified in the CIP include the Bass and Pomerleau Alum Treatment Project ("**Project**"), which is more fully described in the attached Attachment One.
- D. The Plan specifies that projects in the CIP will be partially funded by a County tax levy under Minn. Stat. § 103B.251.
- E. The Commission entered into a grant agreement related to the Project with the Minnesota Board of Water and Soil Resources ("**BWSR**") effective as of May 16, 2018, a copy of which is attached hereto as Attachment Two ("**BWSR Grant Agreement**").
- F. The BWSR Grant Agreement provides that BWSR will grant the Commission a sum not to exceed Two Hundred Sixty Seven Thousand Forty and No/100 Dollars (\$267,040.00), which funds are to be used for the Project to perform the duties and tasks specified in the BWSR Grant Agreement.
- G. on August 9, 2018, the Commission adopted a resolution ordering the Project, directing that it be constructed by the City and that the Commission's share of the Project costs be funded from a levy previously certified to Hennepin County ("**County**") in accordance with Minn. Stat. § 103B.251.
- H. The Commission and City have agreed for the City to assume, as subgrantee, certain duties and responsibilities of the Commission, as grantee, under the BWSR Grant Agreement in consideration of receiving a portion of the funds provided for in those grant agreement and subject to the terms, conditions, and limitations set forth therein.

1. The City is willing to construct the Project and to perform the duties as a subgrantee in accordance with the terms and conditions of this Agreement.

AGREEMENT

In consideration of the mutual covenants and agreements hereinafter set forth, and intending to be legally bound, the parties hereby agree as follows:

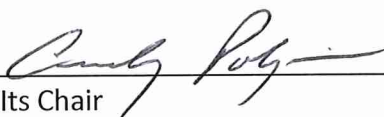
1. Project. The Project will consist of the work required to construct the improvements in the City as more fully described in Attachment One.
2. Contract Administration. The City will award the contract for the Project in accordance with the requirements of law. The City will award the contract and supervise and administer the construction of the Project to ensure that it is completed in accordance with the scope of the Project identified in Attachment One. The City will require the contractor to name the Commission as additional insured on all liability policies required by the City of the contractor and the Commission shall be given the same notification of cancellation or non-renewal as is given to the City. The City will require that the contractor defend, indemnify, protect and hold harmless the Commission and the City, their agents, officers, and employees, from all claims or actions arising from performance of the work of the Project conducted by the contractor. The City will supervise the work of the contractor. However, the Commission may observe and review the work of the Project until it is completed.
3. Contract Payments. The City will pay the contractor and all other expenses related to the construction of the Project and keep and maintain complete records of such costs incurred.
4. Commission Reimbursement. Reimbursement to the City will be made as soon as funds are available provided a request for payment has been received from the City providing such detailed information as may be requested by the Commission to substantiate costs and expenses.
5. Limits on Reimbursement. The total reimbursement paid by the Commission to the City for the Project will not exceed the cost of the alum treatment contract, estimated to be One Hundred Ninety-Five Thousand Dollars (\$195,000). Reimbursement will not exceed the costs and expenses incurred by the City for the Project, less any amounts the City receives for the Project as grants from other sources. All costs of the Project incurred by the City in excess of such reimbursement, including all costs incurred in excess of estimated project costs due to unforeseen conditions or any other cause, shall be borne by the City or secured by the City from other sources.
6. Grant Agreement. The Commission agrees to forward to the City the funds the Commission receives from the BWSR Grant Agreement for the Project based upon approved reimbursement requests received from the City and conditioned on City's continuing compliance with its obligations under this Agreement.

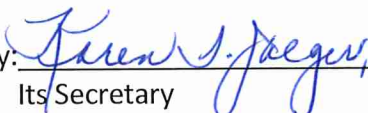
7. City Obligations as Subgrantee. The City will perform and satisfy certain obligations of the Commission under the Grant Agreement. Specifically, but without limiting the foregoing, the City will perform all of the following with respect to the Project and in satisfaction of the obligations of the Grant Agreement:
- (a) The City will perform, or participate in, all elements of the Project as described or otherwise identified in the Grant Agreement, as it may be amended, and will properly document expenses, including time and materials, in the manner expressed in the Grant Agreement and will provide information to the Commission to aid in accurate grant reporting as required in the Grant Agreement. Any amendments made to the Grant Agreement, including its exhibits, are incorporated in and made part of this Agreement by reference.
 - (b) The City will comply with all requirements and conditions of the Grant Agreement applicable to the Project that, by their nature, must be performed by City rather than Commission and that are conditions of award of funds under the Grant Agreement.
 - (c) The times of performance and expiration of City's obligations under this Agreement shall be as provided in the Grant Agreement.
 - (d) The City will provide invoices for reimbursement in accordance with the requirements of the Grant Agreement.
 - (e) The City will take all other actions as are needed to ensure compliance with the Grant Agreement and provide such information and assistance to the Commission as may be needed to ensure the Commission can comply with the requirements of the Grant Agreement that, by their nature, must be performed by the Commission rather than the City.
8. Indemnification. The City will defend, indemnify, protect and hold harmless the Commission and its agents, officers, and employees, from any claims arising out of conducting the Project, including environmental claims. Nothing herein shall be deemed a waiver of the limitations of liability in Minnesota Statutes, chapter 466.
9. Audit. All City books, records, documents, and accounting procedures related to the Project are subject to examination by the Commission and either the State Auditor or the Legislative Auditor for at least six years after completion of the Project.
10. Data Practices. The City shall retain and make available data related to the letting of contracts and construction of the Project in accordance with the Minnesota Government Data Practices Act.

11. Legal Compliance. The City is responsible for complying with all applicable federal, state, and local laws, rules, regulations, and ordinances and for securing all required permits related to the Project.
12. Term. This Agreement shall be in effect as of the date first written above and shall continue until the Project is fully constructed and all obligations under the Grant Agreement have been completed. The indemnification, data practices, audit, and ongoing maintenance obligations set out herein shall survive the termination of this Agreement.
13. Entire Agreement. The above recitals and the attachments attached hereto are incorporated in and made part of this Agreement. This Agreement contains the entire understanding between the parties regarding this matter and no amendments or other modifications of its terms are valid unless reduced to writing and signed by both parties.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized officers on behalf of the parties as of the day and date first above written.

**SHINGLE CREEK WATERSHED
MANAGEMENT COMMISSION**

By: 
Its Chair

And by: 
Its Secretary

CITY OF PLYMOUTH

By: _____
Its Mayor

And by: _____
Its City Manager

ATTACHMENT ONE
Bass and Pomerleau Alum Treatment Project

Overall Project Narrative:

The project is the application of aluminum sulfate (alum) into the water column of Bass Lake and Pomerleau Lake in the City of Plymouth to control the internal loading of phosphorus from the sediments of the bottom. Sediment core release rates suggest the current internal load in Bass Lake is about 479 pounds per year and the target load reduction of 446 pounds P/year is a 93% reduction. For Pomerleau the current internal load is about 142 pounds per year. The target load reduction of 130 pounds P/year is a 92% reduction. Alum dosing calculations indicate that these reductions are feasible and well within the range achieved on other Minnesota lakes.

Alum will be applied to each lake in two doses one year apart. Sediment cores will be taken between the doses to verify or revise the second application dosing. Sediment cores taken at the conclusion of the project will be tested to determine the final sediment release rate and compute the achieved load reduction.

ATTACHMENT TWO
BWSR Grant Agreement

(attached hereto)

Technical Memo



To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: September 4, 2020

Subject: Watershed Based Implementation Funding Update

Recommended Commission Action

Discuss. No action necessary.

Attached is the updated Watershed Based Implementation Funding (WBIF) spreadsheet showing the projects submitted to date from the eligible parties in the Metro- Mississippi Twin Cities West partnership. The Commission had previously authorized submitting the Meadow Lake Management Plan and the Connections II projects. Both projects are also being submitted to the BWSR Clean Water Fund grant program. We took the strategy of submitting as the grant request the Commission match portion of the project cost. Should both the CWF and WBIF grants be approved, the Commission would be able to fully fund those projects from grants. No projects from West Mississippi have yet been advanced.

The grant funds requested for the submitted projects total \$1,217,157 and the available funds are \$874,153. To determine which of these projects will be funded, the partnership has developed a scoring process. Each of the twelve partners will score each project from 1 (low) to 5 (high) for its water quality benefits and secondary benefits. The water quality score will be weighed at 70% of the total score for the project, and the secondary benefits score will be weighed 30%. The scores will be averaged across the twelve partners, and the projects ranked by total average score.

The partnership had until September 4 to submit projects and to fine-tune the project descriptions. Between September 4 and September 18, the partners will be able to enter rankings into the project matrix. The partnership will then meet the week of September 21 to review the rankings and make the final grant recommendations.

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMC Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: September 4, 2020

Subject: August 2020 Monthly Staff Report

Project Updates

SRP Reduction Project. Staff will take samples from each of the three filter media and send to UW-Stout for testing. The tests will estimate how saturated the media are with phosphorus. The filters have been in place for a year now and we have good data on the volume of flow that has been filtered. This will be helpful in estimating the remaining useful life of each of the media.

Crystal Lake Management Plan. Staff will be undertaking the carp aging study in September. The age of carp can be reliably estimated from otoliths found in the ear canals. Otoliths are small calcium carbonate structures found in all vertebrates (including humans) that help manage sensory inputs and balance. With age they grow and accumulate rings of calcium carbonate like rings on a tree. Staff will capture up to 50 carp from Crystal Lake and remove their otoliths. The carp must be euthanized to complete this step. The otoliths will be sent to a contractor who will section the structures and read them under a microscope to estimate the individual's age. The data will be used to estimate the age structure of the carp population in Crystal Lake, which will help us better understand recruitment and longevity and how we can better manage the population.

Bass and Pomerleau Lakes. The second round of alum treatment has been bid and the Plymouth City Council will award a contract at its first meeting in September. This second treatment will occur when water temperatures are optimal, likely late September or early October. Phosphorus concentrations in Bass and Pomerleau continue to be well below the state standard at both the surface and bottom samples.

Meadow Lake Drawdown

Staff are finalizing the water appropriation permit for the drawdown. Staff have consulted with the DNR about the proposed turtle conservation plan and have completed a turtle survey. During the survey staff were available to talk with residents about their specific concerns. We expect to submit the permit application within a few weeks and are still hopeful that it can be turned around fast enough by the DNR to allow the drawdown to occur this fall.

Attached are some photos from the turtle survey and recent fish survey on Meadow Lake. Based on weight/volume, staff estimates that the bin contains about 30,000 fathead minnows.



(Above) Wenck natural resources specialists Kristina, Scott, and Nick scan for likely turtle habitat.
(Below) Scott gets up close.





(Above) Fisheries biologist Nick (and Aaron) contemplates the day's catch.

(Below) Based on weight and volume, Nick estimates this bin contains about 30,000 fathead minnows.



SHINGLE CREEK / WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION
MONTHLY COMMUNICATION LOG
August 2020

| Date | From | To | SC | WM | Description |
|-----------|-----------------------------------|------------------------|----|----|--|
| 8-7-2020 | Todd Tuominen | Ed Matthiesen | | X | Mississippi Crossings cost share update |
| 8-8-20 | Chuck Kendall, Resident | SC website | X | | A lakeshore resident team looking into water quality of Twin Lakes would like to meet. |
| 8-11-20 | Karen Galles, HCEE | Diane Spector | X | X | Email that the County Board unanimously approved the maximum levies for 2020. |
| 8-13-2020 | Melissa White @ LHB | Ed M. | | X | Brooklyn Park park plans |
| 8-14-2020 | Roxy Robertson | Ed M. | | X | Wetland Notice of Decision in Champlain |
| 8-19-20 | Julie Olsen, resident | SC WMO | X | | Request for information regarding Bass Lake alum treatment, water quality, and aquatic vegetation management |
| 8-24-20 | Mary Karius, HCEE | Judie Anderson | X | X | Email asking WHEP participants since there will be no volunteer wetland monitoring, the county could do professional monitoring at the same cost. Since the Commissions' participation in WHEP is primarily an opportunity for volunteer participation and learning, we declined |
| 8-25-20 | MPARS | SC WMO | X | | Notice of an amended permit to the city of Maple Grove to replace boardwalk across a wetland and add a viewing platform. Maple Grove is LGU for WCA administration. |
| 8-25-20 | Applewood Coop chair | WM WMO | | X | Website question submittal re: ensuring that their raingardens in the Mississippi River floodplain are adequately maintained |
| 8-28-2020 | Rebecca Walker @ U of M | Amy Juntunen, Ed M. | X | X | Discussion of how watershed develops and funds projects |
| 8-28-2020 | Mitch Robinson @ Brooklyn Park | Erik Megow | X | | 8041Noble Ave floodplain question |
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