

February 3, 2022

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:

A joint regular meeting of the Shingle Creek and West Mississippi Watershed Management Commissions will be held **Thursday, February 10, 2022, at 12:45 p.m.** This will be a virtual meeting.

**The Technical Advisory Committee (TAC) will meet prior to the regular meeting at 11:00 a.m.**

To join the meeting, click <https://zoom.us/j/834887565> or go to [www.zoom.us](http://www.zoom.us) and click **Join A Meeting**. The meeting ID is **834-887-565**. The password is **water**. 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

Meeting ID: 990 970 201. Passcode: 579973

Meetings remain open to the public via the instructions above.

Please email me at [judie@jass.biz](mailto:judie@jass.biz) to confirm whether you or your Alternate will be attending the regular meeting. Thank you.

Regards,

Judie A. Anderson  
Administrator

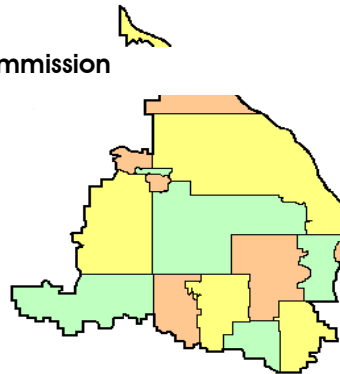
cc: Alternate Commissioners  
TAC Members

Member Cities  
Hennepin County

Wenck/Stantec  
Reviewing Agencies

Troy Gilchrist

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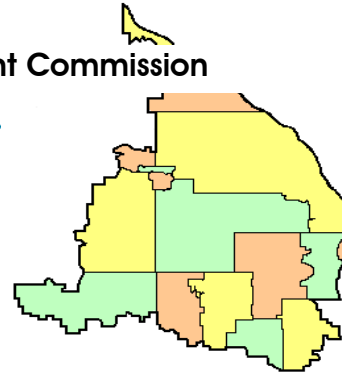
## AGENDA – February 10, 2022

A combined regular meeting of the Shingle Creek (SC) and West Mississippi (WM) Watershed Management Commissions will be convened Thursday, February 10, 2022, 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.*

- |   |      |     |  |               |
|---|------|-----|--|---------------|
|   | SCWM | 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.                        |               |
|   | SCWM | 3.  | Open forum.  |               |
|   |      | a.  | Presentation – Brooks Gardens*                                       |               |
| ✓ | SCWM | 4.  | Election of officers - <i>currently</i>                              |               |
|   |      | a.  | Chair: Andy Polzin   | Gerry Butcher |
|   |      | b.  | Vice Chair: Wayne Sicora   | David Vlasin  |
|   |      | c.  | Secretary: Karen Jaeger  | Karen Jaeger  |
|   |      | d.  | Treasurer: Burt Orred  | Karen Jaeger  |
| ✓ | SCWM | 5.  | Annual Appointments.   |               |
|   |      | a.  | Official Newspaper – Osseo-Maple Grove Press.                        |               |
|   |      | b.  | Official Depositories – U.S. Bank, 4M Fund                           |               |
|   |      | c.  | Deputy Treasurer – Judie Anderson                                    |               |
|   |      | d.  | Auditor – Johnson & Company, Ltd.                                    |               |
|   |      | 6.  | Project reviews.   |               |
| ✓ | WM   | a.  | WM2022-001 Champlin Park High School Athletic Facilities, Champlin.* |               |
| ✓ | SCWM | 7.  | Fourth Generation Watershed Management Plan.*                        |               |
|   |      | a.  | Revised Maintenance Policy.*   |               |
|   |      | b.  | Rules Update.*   |               |
|   |      | c.  | Monitoring Program Framework.*                                       |               |
|   |      | d.  | Website Interactive Map.   |               |
|   |      | 8.  | Water quality.   |               |
|   | SC   | a.  | MPRB Regional Park Plans.*   |               |
|   |      | 9.  | Grant opportunities.   |               |
| ✓ | SC   | a.  | Palmer Creek Estates Grant Agreement.*                               |               |
| ✓ | SC   | b.  | Bass Lake Conservation Partners Legacy Grant.*                       |               |
| ✓ | SCWM | c.  | 2022-23 WBIF.*   |               |
|   |      | 10. | Education and public outreach.                                       |               |
|   | SCWM | a.  | WMWA update.**   |               |
|   | SCWM | c.  | Next WMWA meeting – via zoom. 8:30 a.m., Tuesday, April 12, 2022.    |               |

- 11. Communications.
  - SCWM a. Staff Report.\*
  - SCWM b. Communications Log.\*
  - SCWM c. MTD Appreciation Letter.\*
- 12. Other business.
- 13. Adjournment.

Z:\Shingle Creek\Meetings\Meetings 2021\12 Agenda Regular meeting .docx \* In meeting packet or emailed \*\* Supplemental email / Available at meeting



## MINUTES

**January 13, 2022**

(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 12:45 p.m. on Thursday, January 13, 2022.

Present for Shingle Creek were: David Vlasin, Brooklyn Center; Alex Prasch, Brooklyn Park; Burt Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Ray Schoch, Minneapolis; Robert Grant, New Hope; John Roach, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Ed Matthiesen, Diane Spector, Katie Kemmitt, Erik Megow, and Todd Shoemaker, Stantec; Troy Gilchrist, Kennedy & Graven; and Amy Juntunen and Judie Anderson, JASS.

Present for West Mississippi were: David Vlasin, Brooklyn Center; Alex Prasch, Brooklyn Park; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; John Roach, Osseo; Ed Matthiesen and Diane Spector, Stantec; Troy Gilchrist, Kennedy & Graven; and Amy Juntunen and Judie Anderson, JASS.

Also present were: Andrew Hogg, Brooklyn Center; Mitchell Robinson, Brooklyn Park; Heather Nelson, Champlin; Mark Ray, Crystal; Derek Asche, Maple Grove; Liz Stout and Katie Kowalczyk, Minneapolis; Nick Macklem, New Hope; Amy Riegel and Ben Scharenbroich, Plymouth; Richard McCoy, Robbinsdale; Dr. Kenneth Blumenfeld, Minnesota State Climate Office; Doug Baines, Dayton; David Katzner, Rogers; Michelle Pritchard, Anoka County; Justine Dauphinais, Dawn Doering, Britta Dornfeld, Jon Janke, and Trace Vanderbilt, Coon Creek Watershed District; and J. Kosluchar.

Dr. Blumenfeld is a Senior Climatologist with the Minnesota State Climate Office and an Adjunct Assistant Professor at the University of Minnesota. He discussed how the Commissions can plan for changing precipitation. Dr. Blumenfeld will provide his presentation for the Commission website.

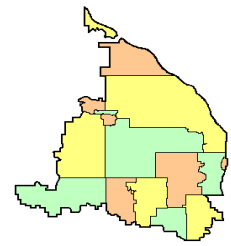
## II. Agendas and Minutes.

Motion by Schoch, second by Grant to approve the **Shingle Creek agenda\*** as amended. *Motion carried unanimously.*

Motion by Butcher, second by Jaeger to approve the **West Mississippi agenda** as amended.\* *Motion carried unanimously.*

Motion Schoch, second by Jaeger to approve the **minutes of the December 9, 2021, regular meeting.\*** *Motion carried unanimously.*

Motion by Prasch, second by Roach to approve the **minutes of the December 9, 2021, regular meeting.\*** *Motion carried unanimously.*



### III. Finances and Reports.

**A.** Motion by Schoch, second by Jaeger to approve the Shingle Creek **January Treasurer's Report\* and claims** totaling \$93,359.37. Voting aye: Vlasin, Prasch, Orred, Jaeger, Schoch, Grant, Roach, Polzin, and Sicora; voting nay – none.

**B.** Motion by Butcher, second by Prasch to approve the **West Mississippi January Treasurer's Report\* and claims** totaling \$9,675.36. Voting aye: Vlasin, Prasch, Butcher, Jaeger, and Roach; voting nay – none.

### IV. Open Forum.

### V. Project Review.

**SC2022-01 5308 Perry Avenue North, Crystal.\*** The proposed project is comprised of fill in a single family home lot on the southwest corner of Upper Twin Lake. Following development, the 1.32 acre site will be 8 percent impervious with 0.10 acres of impervious surface, an increase of 0.10 acres. A complete project review application was received on January 7, 2022.

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 by overland flow through a 30' native vegetation buffer. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the building flows over four times the hard surface on a turfed area. The applicant meets Commission rate control requirements.

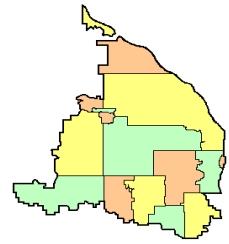
Commission rules also require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 0.10 acres, requiring infiltration of 0.008 acre-feet (363 cubic feet) within 48 hours. The applicant proposes the lawn and buffer that have the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission volume control requirements.

The erosion control plan is included consisting of a rock construction entrance, perimeter silt fence and WIMCO catch basin inserts. The erosion control plan meets Commission requirements.

The National Wetlands Inventory does not identify any wetlands on the site, but the lake edge corresponds with the NWI. Shingle Creek is LGU for WCA administration. A wetland buffer, a minimum of 20 feet in width and averaging 30 feet in width, is provided. The applicant meets Commission wetland requirements.

There are Public Waters abutting the site. Twin Lake is a DNR Public Water and is impaired for nutrients. The proposed project is not anticipated to negatively impact Twin Lake. The applicant meets Commission Public Waters requirements.

There is FEMA-regulated floodplain on this site. The low floor elevation of the building is at least two feet higher than the high-water elevation of the detention ponds/infiltration basins according to Atlas 14 precipitation. The 100-year FEMA elevation for Twin Lake is 856.0 and the Commission's HUC-8 model from



August 5, 2021, 10-day snowmelt is 856.1 (NAVD88 Datum). The basement floor is 858.5. 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.

A public hearing is not needed because this is an already platted lot. The applicant, however, will be going through the City of Crystal permitting process. The applicant meets Commission public notice requirements.

A draft Operations & Maintenance (O&M) agreement is needed.

Motion by Schoch, second by Jaeger to advise the City of Crystal that Project SC2022-01 is approved with two conditions:

1. Provide on-site verification with photos and seed tags that the vegetation buffer has been planted in the proposed area with the BWSR native species noted on the January 7, 2022, revised drawing.
2. Provide an Operations and Maintenance Agreement agreeable to the City of Crystal for upkeep of the buffer.

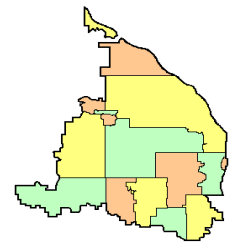
*Motion carried unanimously.*

## **VI. Third Generation Watershed Management Plan.**

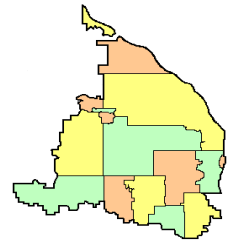
In their January 7, 2022, memos,\* Staff presented the **draft 2022 Work Plans** for both Commissions. While work on the Fourth Generation Plan will be ongoing during the first part of the year, there will also be routine ongoing activities as well as Commission-funded construction projects and water monitoring activities occurring throughout 2022. Activities in calendar form are also provided.

### **A. Shingle Creek.**

1. **Continue to implement TMDLs.**
  - a. Complete the 5-year performance review for the Bass and Shingle Creek Biotic and DO TMDL.
  - b. Complete aquatic vegetation surveys on Bass Lake and provide aquatic invasive species treatment as necessary.
  - c. Partner with the City of Robbinsdale to continue implementing the Crystal Lake Management Plan, including carp removal, aquatic vegetation management, and alum treatment.
  - d. Partner with the City of New Hope to implement the Meadow Lake Management Plan, including potential additional vegetation and fish management and preparation for an alum treatment.
  - e. Partner with the Cities of Brooklyn Park and Brooklyn Center to undertake Connections II streambank improvements for Shingle Creek from Regent Avenue to Brooklyn Boulevard.
  - f. Partner with the City of Brooklyn Park to undertake Bass Creek Park streambank improvements from Cherokee Drive to I-694.
  - g. If permission from MAC is secured, extend the SRP Reduction filter along the Wetland 639W overflow channel.



- h. Continue to pursue grant funding for TMDL implementation projects.
    - i. Expand the Directly Connected Untreated Areas geodatabase to include boundaries of the untreated areas directly connected to the lakes in the watershed. (Streams was completed in 2017.)
    - j. Stay abreast of other regional and state TMDLs.
  - 2. **Partner with other organizations to increase reach and cost effectiveness.**
    - a. Participate in the West Metro Water Alliance joint education and outreach group.
    - b. Continue to partner with the USGS to operate the Queen Avenue monitoring site.
    - c. Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.
    - d. Complete the HUC study in partnership with the DNR.
  - 3. **Continue ongoing administration and programming.**
    - a. Conduct routine Commission lake water quality monitoring and aquatic vegetation and fish surveys on Magda and Ryan Lakes and grant funded monitoring on Crystal and Meadow Lakes.
    - b. Conduct Commission routine flow and water quality monitoring at SC-0 and SC-3 on Shingle Creek and Bass Creek Park (BCP) on Bass Creek as well as two DO longitudinal studies as part of the Shingle and Bass Creeks Dissolved Oxygen (DO) and Biotic Integrity TMDL 5 Year Review.
    - c. If available in 2022, sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).
    - d. Sponsor volunteer lake monitoring through CAMP (Met Council) on Bass, Upper, Middle, and Lower Twin Lakes.
    - e. Complete reviews of development and redevelopment projects as necessary.
    - f. Prepare an annual water quality report.
    - g. Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$100,000 levy and the Partnership Cost Share Fund and the annual \$50,000 levy.
    - h. Review feasibility studies for 2022 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects, and certify levies.
    - i. Prepare a 2023 annual budget.
    - j. Host a Convene Meeting for the 2022 Watershed-Based Funding awarded to the Shingle Creek Partnership.
    - k. Complete the Fourth Generation Management Plan and submit for public and BWSR review.
    - l. Invite three guest speakers to make lunchtime water resources presentations.
    - m. Tour project sites in the watershed.



Motion by Schoch, second by Orred to accept the 2022 draft Work Plan with the addition of the following under section 1:

Partner with the City of Plymouth to complete the Palmer Creek Estates channel restoration project.

*Motion carried unanimously.*

**B. West Mississippi.**

**1. Continue to stay abreast of regional TMDLs.**

a. Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River.

b. Stay abreast of other regional and state TMDLs.

c. Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.

**2. Partner with other organizations to increase reach and cost effectiveness.**

a. Participate in the West Metro Water Alliance joint education and outreach group.

b. Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.

c. Partner with the MWMO to undertake monitoring at the 65th Avenue outfall.

d. Partner with a member city to complete a subwatershed BMP analysis.

**3. Continue ongoing administration and programming.**

a. Undertake routine flow and water quality at two outfalls into the Mississippi River.

b. If available in 2022, sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).

c. Complete reviews of development and redevelopment projects as necessary.

d. Prepare an annual water quality report.

e. Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$50,000 levy.

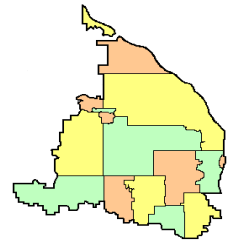
f. Review feasibility studies for 2022 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects, and certify levies.

g. Prepare a 2023 annual budget.

h. Complete the Fourth Generation Management Plan and submit for public and BWSR review.

i. Host a Convene Meeting for the 2022 Watershed-Based Funding awarded to the West Mississippi Partnership.

j. Invite three guest speakers to make lunchtime water resources presentations.



**k. Tour project sites in the watershed.**

Motion by Butcher, second by Jaeger to accept the 2022 draft Work Plan as presented.  
*Motion carried unanimously.*

**VII. Fourth Generation Watershed Management Plan.\***

**A.** Kemmitt provided an overview of the progress on the Fourth Generation Plan update.

**1. Rules and Standards.** Staff are currently working on a draft Rules and Standards update to be presented at the February meeting. The updated rules will align with the new MS4 general permit and the latest guidance in the Minnesota Stormwater Manual. They will also add clarity to how the Commissions will review certain project elements to align with City and surrounding Watershed requirements.

**2.** The Commissions have seen an early-stage **online story map** draft to accompany the Fourth Generation Plan. Work on the story map continues, with updates to layers and data shown. The plan moving forward is to use the story map as a visual, data-driven tool and keep the WMO website as the main source for watershed information. The story map will link back to the website where possible for in-depth information on projects, Commission processes, and more.

**B. Maintenance and Resilience Funding.\*** Staff drafted a Maintenance and Resiliency Funding policy\* for TAC and Commission review. The policy addresses the types of work that may be eligible for funding, including any work resulting from capital projects that doesn't fall neatly into either operations or brick and mortar projects. At their meeting earlier today, members of the Technical Advisory Committee spent considerable time discussing the draft policy and requested Staff to return to their February meeting with suggested revisions for further discussion.

**C. Public Input and Review.** In the coming weeks Staff will contact the member cities to determine which of their active commissions would best serve as a Citizen Advisory Committee to provide input and review of the draft plan as it moves through the development process and to establish a schedule. The request is for two meetings, with a homework assignment prior to the first meeting.

**VIII. Water Quality.**

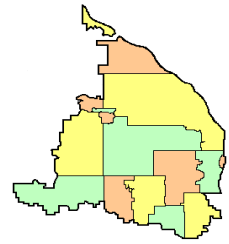
**HUC8 Study Update.\*** Shoemaker provided an update on this project which began in September 2018.

The Minnesota DNR initiated the process to update FEMA flood risk maps in 2017. One component of that process was to update the hydrologic and hydraulic computer model for each participating Twin Cities Hydrologic Unit Code (HUC) 8 watersheds (i.e., Shingle Creek, Coon Creek, Minnehaha Creek).

Stantec completed the Shingle Creek HUC8 model update and submitted it to the DNR for review in March 2021. The DNR subsequently held a "Flood Risk Review" (FRR) meeting on April 1, 2021, to discuss model results and implications to property owners and local floodplain administrators. There were two key outcomes from the FRR:

**1.** The effective (current) floodplain map and profile differ by up to ten feet. This is a mapping error in either the effective map or profile, not a calculation error. Regardless, it may create a perceived increase and discrepancy compared to the updated model. The DNR is aware and must be prepared to educate data users.

**2.** There is an increase in flood elevation upstream of Noble Avenue in Brooklyn Center that causes encroachment to properties along Unity Avenue. Structures here appear to have been permitted by



elevating them above the effective flood elevation and receiving approval through FEMA's Letter of Map Change process.

The DNR paused the flood risk map update in mid-2021 due to staffing shortages.

Staff were informed on December 21, 2021, that the process has now resumed. Stantec has confirmed the DNR has the most current Shingle Creek model, submitted as a result of the 2021 Ryan Lake Subwatershed Assessment. At this time, final review of the Shingle Creek model and updated flood risk maps are scheduled to be completed by September 1, 2022.

## **IX. Grant Opportunities.**

### **A. Crystal Lake Management Plan.\***

Carp removals on Crystal Lake in 2021 were extremely successful, with over 3,900 carp removed (an estimated 33% of the lake's population), moving the lake closer to improved water quality. Because of the success of carp removals, Staff is recommending another field season of carp removal efforts in 2022 to bring the lake's carp population below harmful levels. The grant's carp removal task budget has been expended. In addition, one of two alum doses was successfully applied to the lake in September 2021. The alum treatment came in under budget at \$52,776.69. The second alum treatment will be applied in 2022 and is expected to cost a similar amount.

Staff suggest moving some of the projected excess funds from the alum treatment task to the carp removal task to fund 2022 carp removals in the project grant work plan. This change will have no impact on the scope and total cost of the project but will allow additional efforts of carp removal on the lake.

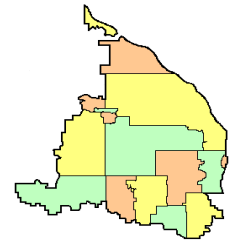
Motion by Schoch, second by Grant to direct Staff to move forward with the proposed grant task change order for carp removal in 2022. *Motion carried unanimously.*

### **B. Bass Lake Vegetation Improvements.\***

The Commission has successfully improved water quality and clarity on Bass Lake in Plymouth through the Bass and Pomerleau Lakes Alum Project. Water quality is the best it has been in decades; however, the native aquatic plant community appears to be limited. Curly-leaf pondweed (CLP) is still present in the lake in significant areas, and overall native species diversity is low.

In January, Staff met with the DNR and the Bass Lake Improvement Association (BLIA) to discuss lake vegetation management options moving forward. The DNR was supportive of continued herbicide spot-treatments of CLP and recommended native plant introductions from a donor lake to increase plant diversity in the lake. The BLIA would like to prioritize CLP management and was supportive of increasing native plant diversity through plant introductions of plants that won't impede recreation. The DNR provided a list of recommended plants to introduce and will be providing Staff with the permitting requirements associated with plant translocation.

Staff discussed pursuing a DNR Conservations Partners Legacy Grant (CPL) in February 2022 for available funds in May 2022 to fund native plant introductions and monitoring efficacy. The DNR CPL grant would fund up to two plant harvest and translocation events and the related pre- and post- monitoring to evaluate efficacy. The BLIA expressed support for pursuing the grant and would be willing to provide volunteer time and designate undisturbed areas of the lake for plant introductions. The DNR would also provide staff support during the translocation events but would not be available to provide all the staff work, which would need to be supplemented by volunteer and Commission staff time.



This would be a relatively low-cost project (<\$25,000) based on the DNR's estimate of the overall level of effort for the plant collection and translocation and follow-up monitoring. The CPL grants require a 10% match. Time spent by volunteers is eligible to serve as a portion of that match as in-kind services. There should be sufficient funds left over in the aquatic vegetation management reserve to provide any additional cash match. If you wish to proceed staff will prepare a draft grant application for your review at the February 10 meeting. The grants are due by February 21.

Motion by Schoch, second by Roach directing Staff to prepare a grant application for Commission review at the February meeting. *Motion carried unanimously.*

#### **X. Education and Public Outreach.**

**A.** The West Metro Water Alliance (WMWA) met on January 11, 2022. **Angie Hong** of the East Metro Water Resource Education Program (EMWREP) ([East Metro Water Education — Washington Conservation District \(mnwcd.org\)](http://East Metro Water Education — Washington Conservation District (mnwcd.org))) was the guest speaker to present about her organization and how it is funded, organized, and works. **EMWREP** is a partnership of local governments in the eastern Metro area, mainly in Washington County but which is now expanding into other counties. EMREP was founded in 2006 with just seven partners and has grown to 25, including all eight of the WMOs in Washington County. The Washington Conservation District is the host organization and contributions from EMWREP partners pay for two full-time educators.

WMWA was particularly interested in learning how EMREP successfully grew and maintained the formal (and financial) participation of so many partners and how they were able to grow to become so successful. Most of the watershed districts in Hennepin County have their own education and outreach staff and education programs and have not been interested in participating formally with WMWA. The WMWA partners agreed to continue brainstorming on how WMWA can be of more value to them.

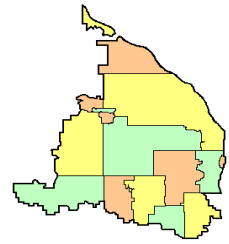
**Blue Thumb/Metro Blooms.** WMWA will be forwarding to the cities in the four member WMOs (Bassett Creek, Elm Creek, Shingle Creek, and West Mississippi) information about 2022 potential resilient yards workshops that Metro Blooms now offers virtually. City sponsorship may fulfill an MS4's obligation to provide workshops or other learning opportunities to its residents.

**Flyer Update.** The four WMOs had previously authorized updating several brochures on topics required by the updated NPDES permits. WMWA has engaged a graphic designer to reformat several brochures into a consistent look and feel on the following topics: pet waste, water softeners, and proper ice melt use. These will be available to all the MS4s in the WMOs to help meet their NPDES permit obligations.

**Watershed PREP.** The new contracted educator, Jessica Sahu Teli, is on board and is working with the retiring educator to start soliciting classroom opportunities for this spring. Given the current pandemic, she is prepared to do both in-person and virtual learning depending on the needs and desires of the individual school.

The **next WMWA meeting** will be held via Zoom at 8:30 a.m., February 8, 2022.

**B. Shingle Creek Website.** Staff are working on refreshing the website in concert with the Fourth Generation Plan process. Included in the meeting packet are the 2021 metrics\* showing the unique page views for the top 25 ages. The most visited pages continue to be pages for the Commission and TAC meeting materials and project review applications. Other pages average 10-20 hits per month. Staff are hopeful that the refresh and addition of an online interactive map will be an efficient and layperson-friendly way to navigate information.



**C. Social Media.** The Shingle Creek Facebook page currently has 213 followers. It has been a struggle to keep content and posts fresh and engaging. Many of the Commission posts are shares of posts from other watersheds or partners. Engagement has been most successful when Staff have posted project-related content on the Shingle Creek Facebook and then shared that post on another more focused page, such as sharing Crystal Lake posts onto a Robbinsdale resident's Facebook page. Staff will attempt to be more active and engaging in 2022.

**XI. December Staff Report.\***

**A. General Updates.**

Staff is working with BWSR to get guidance on how to proceed with the Watershed Based Funding convene meeting and process. The amount allocated to the Shingle Creek partnership is \$95,501 and to West Mississippi is \$75,000. Cities, counties, and WMOs within the watershed are eligible to receive this funding, as determined by the members of the partnership. More information will be provided at the February meeting.

**B. Project Updates**

**1. Crystal Lake Management Plan.** Work has concluded for the season and Staff are working with the MPCA on a change order to reallocate some of the alum treatment savings to additional carp management. See item VIII.A. of these minutes for more details.

**2. Bass and Pomerleau Lakes Management Plan.** See Item VIII.B. of these minutes.

**3. Meadow Lake Management Plan.** The Meadow Lake drawdown has been completed and pumping infrastructure removed for the winter. Staff have scheduled an on-site visit with the contractor and City the week of January 10.

**4. Connections II and Bass Creek Restoration Projects.** Both these projects were bid in December for construction in spring-summer 2022. Bid prices came in below the Engineer's Estimate.

**5. SRP Extension Project.** This project is temporarily on hold as the City of Crystal continues to work with MAC to obtain permission to construct the project on MAC property. Once that is secured it is expected that work will proceed starting approximately in March depending on the weather and be complete by mid-summer 2022.

**XII. Communications.**

**A. December Communications Log.\*** No items required action.

**XIII. Other Business.**

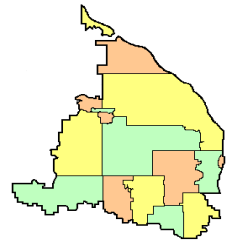
**A. Annual appointments** of commissioners are due from the cities of Champlin, Maple Grove, Minneapolis, and New Hope.

**B. Election of officers** will occur at the February meeting. Current officers are:

**1. Shingle Creek:** Polzin, Chair; Sicora, Vice Chair; Jaeger, Secretary; and Orred, Treasurer.

**2. West Mississippi:** Butcher, Chair; Harold Johnson, Vice Chair; and Jaeger, Secretary/Treasurer.

Jaeger volunteered to serve as the Nominating Committee for Shingle Creek. West Mississippi's Nominating Committee is a committee of the whole.



C. Matthiesen announced that he will be taking a professional **leave of absence** after the February meeting.

**XIV. Adjournment.** There being no further business before the Commissions, the joint meeting was adjourned at 2:41 p.m.

Respectfully submitted,

A handwritten signature in black ink, reading "Judie A. Anderson".

Judie A. Anderson,  
Recording Secretary

JAA:tim

Z:\Shingle Creek\Meetings\Meetings 2022\January 13 meeting minutes.docx

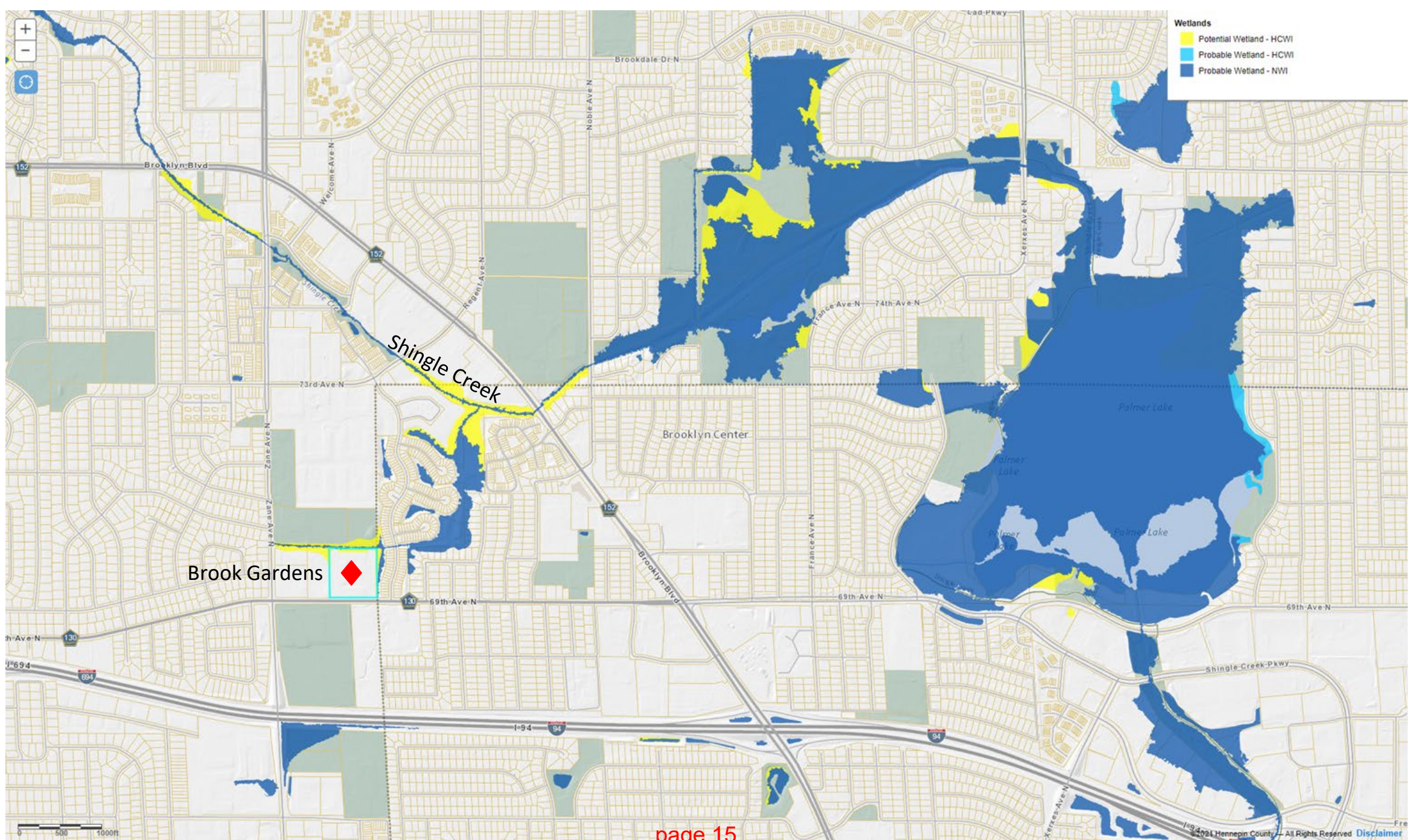
# Brooks Gardens: Habitat, Clean Water, + Livability

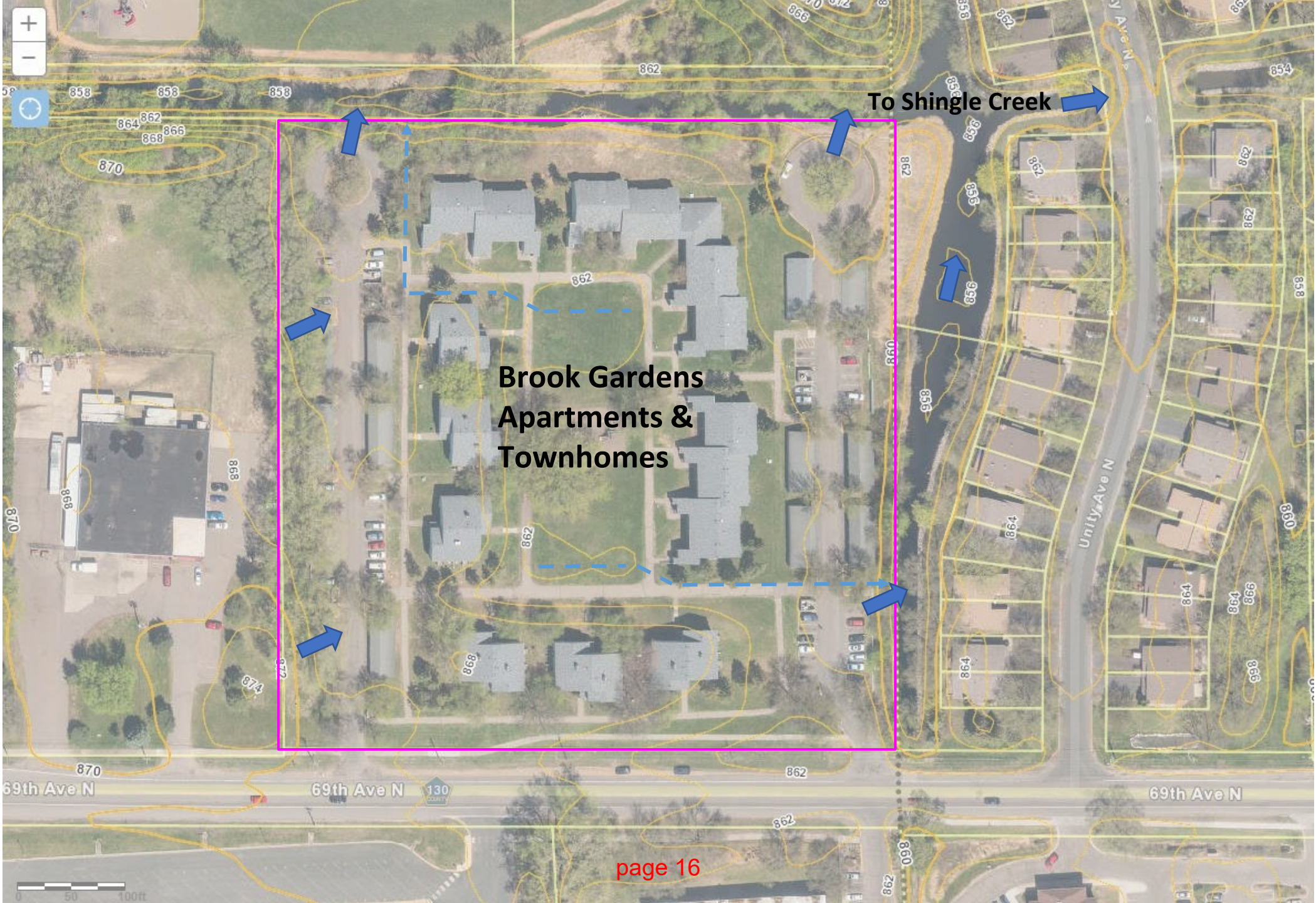
February 10, 2022

Shingle Creek Watershed Management Commission



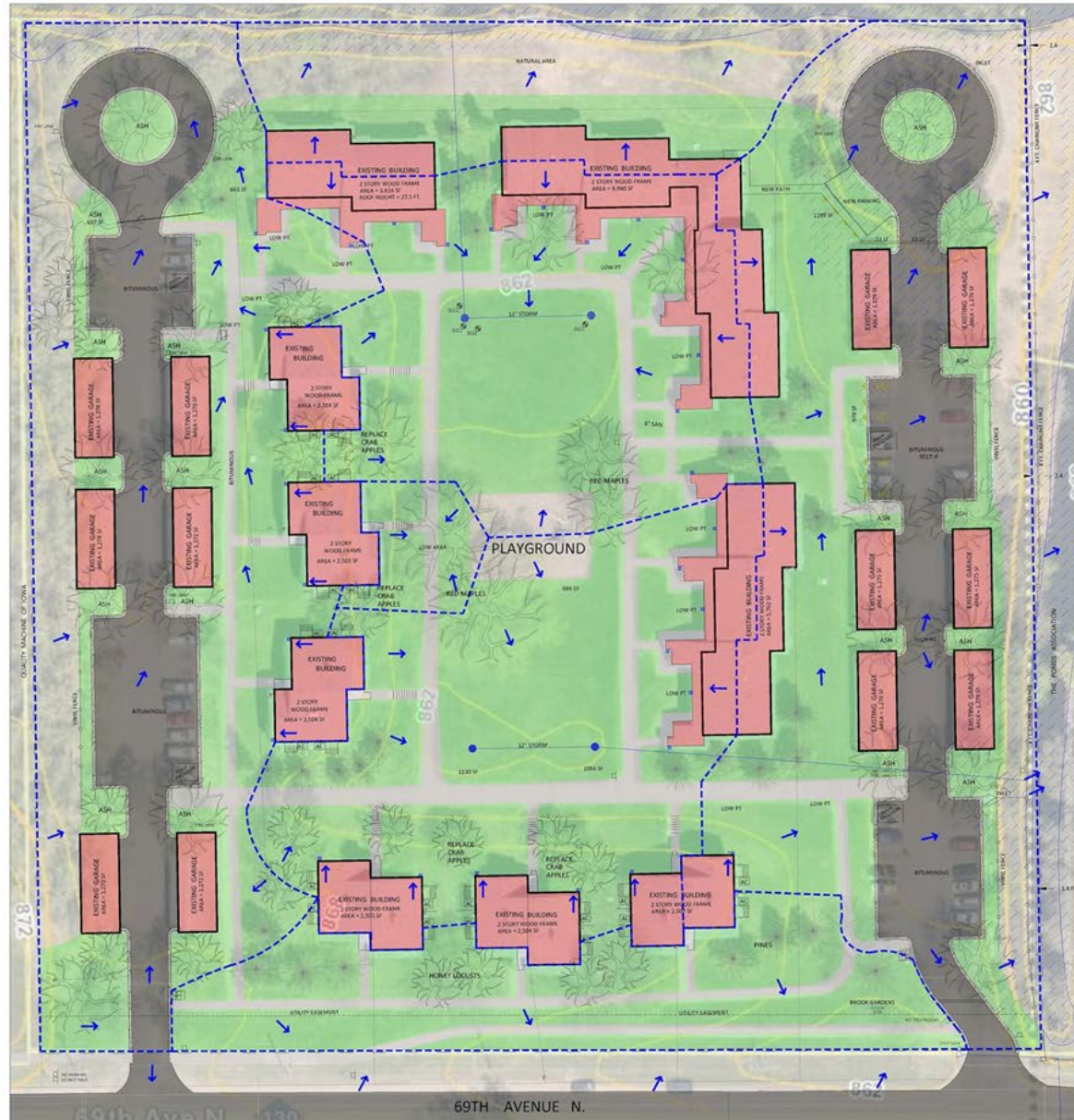
by Maggie Wiebe





# BROOK GARDENS APARTMENTS AND TOWNHOMES

- Affordable housing community  
(Section 8 & 42)
- 8.14 acres,  
3.06 acres  
impervious  
4.00 acres lawn  
1.00 acre wooded  
floodplain area
- 60 apartment units  
& 24 townhomes
- Direct stormwater  
flow from North  
and East floodplain  
to Shingle Creek



5550 - 69th Avenue North, Brooklyn Park, MN 55429

## EXISTING SITE INFO

TOTAL AREA: 354,671 sq ft (8.14 acres)  
PERVIOUS: 221,009 sq ft (5.07 acres)  
LAWN: 174,474 sq ft (4.00 acres)  
NATURAL: 44,240 sq ft (1.01 acres)  
IMPERVIOUS: 133,662 sq ft (3.06 acres)  
TREES: Approx 80 (25 ash - 31%)  
PARKING: 62 spaces + garages

## POTENTIAL STORMWATER RUNOFF:

1.1"/24 hour rain event  
12,219 cubic feet (91,404 gallons)

30.7" Annual Average Rainfall  
377,468 cubic feet (2,823,661 gallons)

= 4.25 Olympic Swimming pools

## LEGEND

- Lawn
- Building
- Parking/Fire Lane
- Walkways/Patios
- Flood zone
- Direction of Runoff
- Downspouts
- Property Line
- Utilities
- Existing Fence
- Sub-catchment areas
- Soil Infiltration Test
- Existing Tree

## SOIL INFILTRATION TESTS

BG1: 8.64 IN/HR  
BG2: 15.54 IN/HR  
BG3: 0.92 IN/HR  
BG4: 5.53 IN/HR

## PARKING



## PATHS



## PLAYGROUND



## GREEN SPACE



# Guiding Principles + Project Stewards



# Resident Engagement



[illegible][illegible]

A collage of 12 outdoor scenes, each with colored dots and stars overlaid, representing the dataset used in the paper. The scenes include a garden, a park, a field, a street, a bench, and various other outdoor environments.

- MORE SIGNAGE
- VISITOR PARKING
- BUS SHELTER WAITING AREA

# Collaborative design, installation and care



# Resident Training + Employment



# Phase 1: 2020

BEFORE



# Phase 1:

# 2020

## CONCEPT PLAN

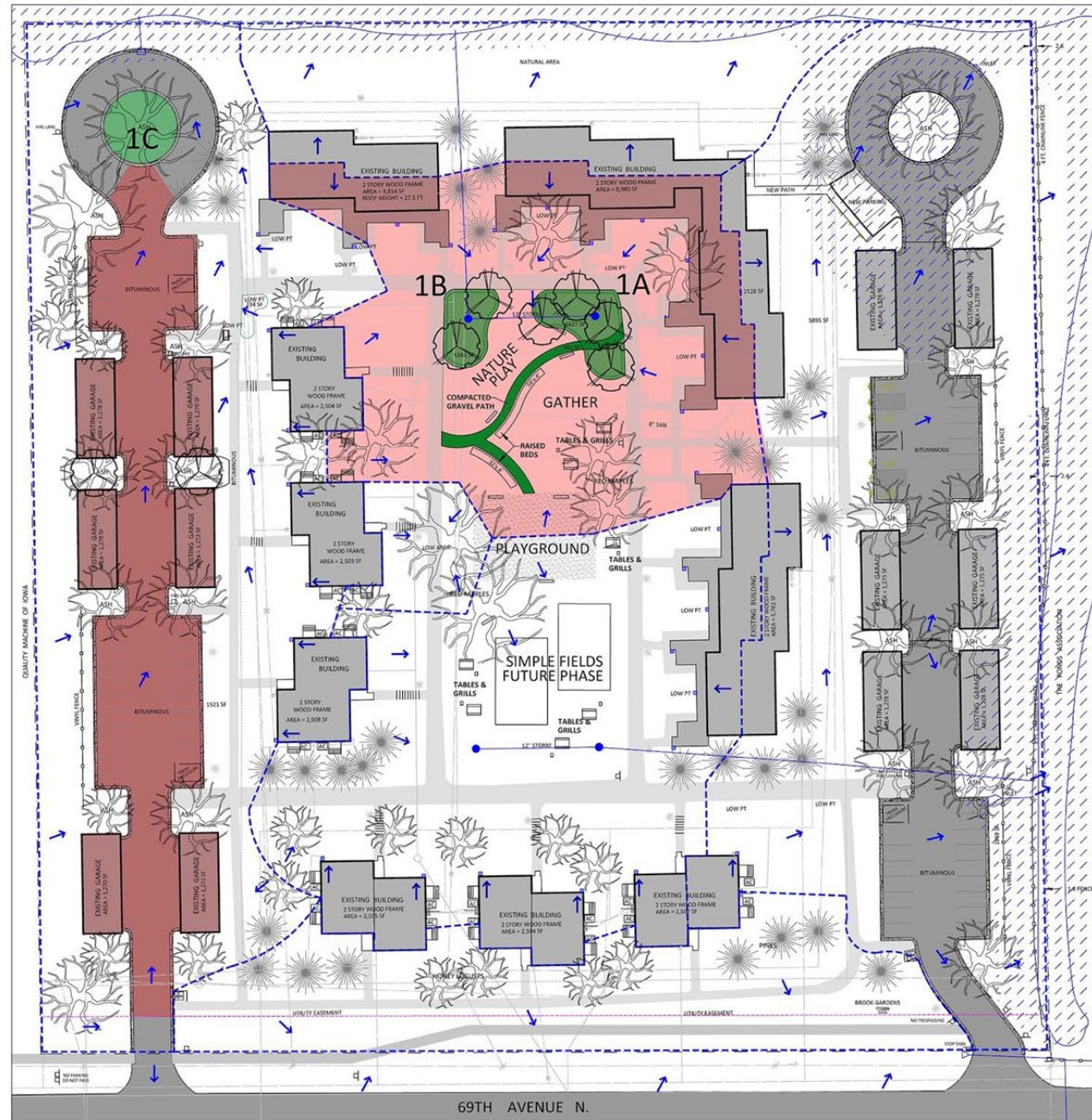
NATURE PLAY



NEW PATHS



## BROOK GARDENS APARTMENTS AND TOWNHOMES



### RESIDENT INTERESTS SUMMARY

- Plantings for color
- Resident garden/vegetable beds
- More seating/benches under shade
- More play spaces for children
- Soccer, basketball courts
- Gathering spaces
- ADA sidewalk access (NW side)
- Circuit walking path or more paths
- More signage
- Visitor Parking
- Better lighting (safety concerns)
- Bus shelters/waiting areas

### PHASE 1 CAPTURE AREA

RG 1A & 1B - 45688 sf  
RG 1C - 27324 sf



4,282 sq ft new habitat

### Annual Capture

- 1.17 million gallons runoff
- 2,000 lbs solids
- 4.5 lbs total phosphorus



page 25



# Somewhere to Play



page 26



# Phase 2: UPDATE

EXISTING OFFICE ENTRY



EXISTING SOUTH COMMON AREA



## EXISTING SITE

TOTAL AREA: 354,675 sq ft (8.14 acres)  
 PERVIOUS: 221,009 sq ft (5.07 acres)  
 LAWN: 271,647 sq ft (6.24 acres)  
 NATURAL: 47,367 sq ft (1.08 acres)  
 IMPERVIOUS: 133,662 sq ft (3.06 acres)  
 TREES: Approx 80 (50' and - 100')  
 PARKING: 68 spaces + garages

POTENTIAL STORMWATER RUNOFF:  
 1.177M hour rain event:  
 12,719 cubic feet (31,434 gallons)

## LEGEND

- Phase 2 Project Areas & Captured Impervious Areas
- Building
- Proposed Planted Areas
- Proposed Rain Gardens
- Parking/Pave Lane
- Walkways/Pavement
- Creek
- Direction of Runoff
- Downspouts
- Property Line
- Utility Lines
- Existing Service
- Sub-catchment Treatment Controls
- Storm Sewer Catch Basin
- Sanitary Sewer Man Hole
- Lights
- Existing Tree
- New Trees

Proximity to Creek:

Right of East Garages

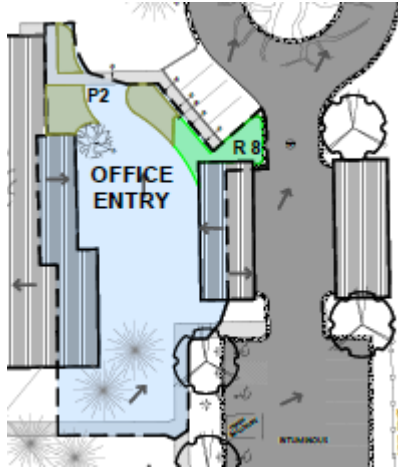


Behind Office & North Apartments



# Phase 2 Capture: UPDATE

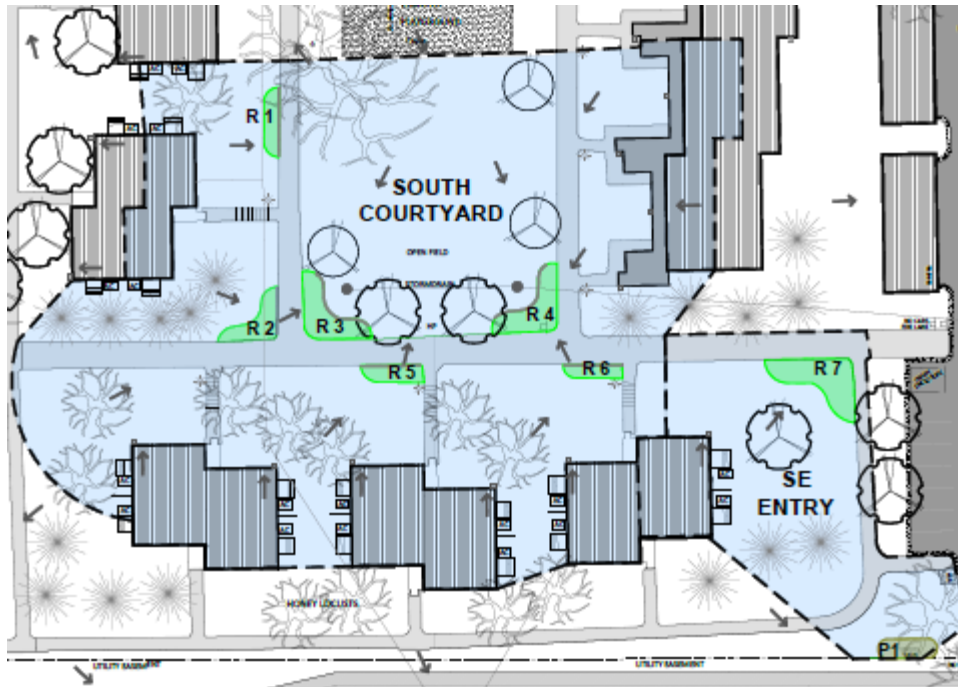
SITE KEY



## 1 OFFICE CAPTURE

Impervious area treated:	2894 sq ft
Lawn area treated:	6153 sq ft
Total Raingarden Area:	474 sq ft @ 3" deep
Runoff Captured Annually:	
-	6730 cu ft (50,344 gallons) (30.99%)
-	0.292 pounds Total Phosphorus reduction (30.22%)
-	105 pounds Total Suspended Solids reduction (30.33%)

Modeled with WinSLAMM using .1"/24 hr infiltration rate



## 2 SOUTH COURTYARD CAPTURE

Impervious area treated:	17,603 sq ft
Lawn area treated:	37,551 sq ft
Total Raingarden Area:	2,009 sq ft @ 6" deep
Runoff Captured Annually:	
-	105,911 cu ft (792,276 gallons) (82.38% avg)
-	4.780 pounds Total Phosphorus reduction (82.03% avg)
-	1,747.54 pounds Total Suspended Solids reduction (82.09% avg)

Modeled with WinSLAMM using 2.5"/24 hr infiltration rate

# Phase 2 Install Photos



# 2021 Gardens



# Landcare Training



page 31

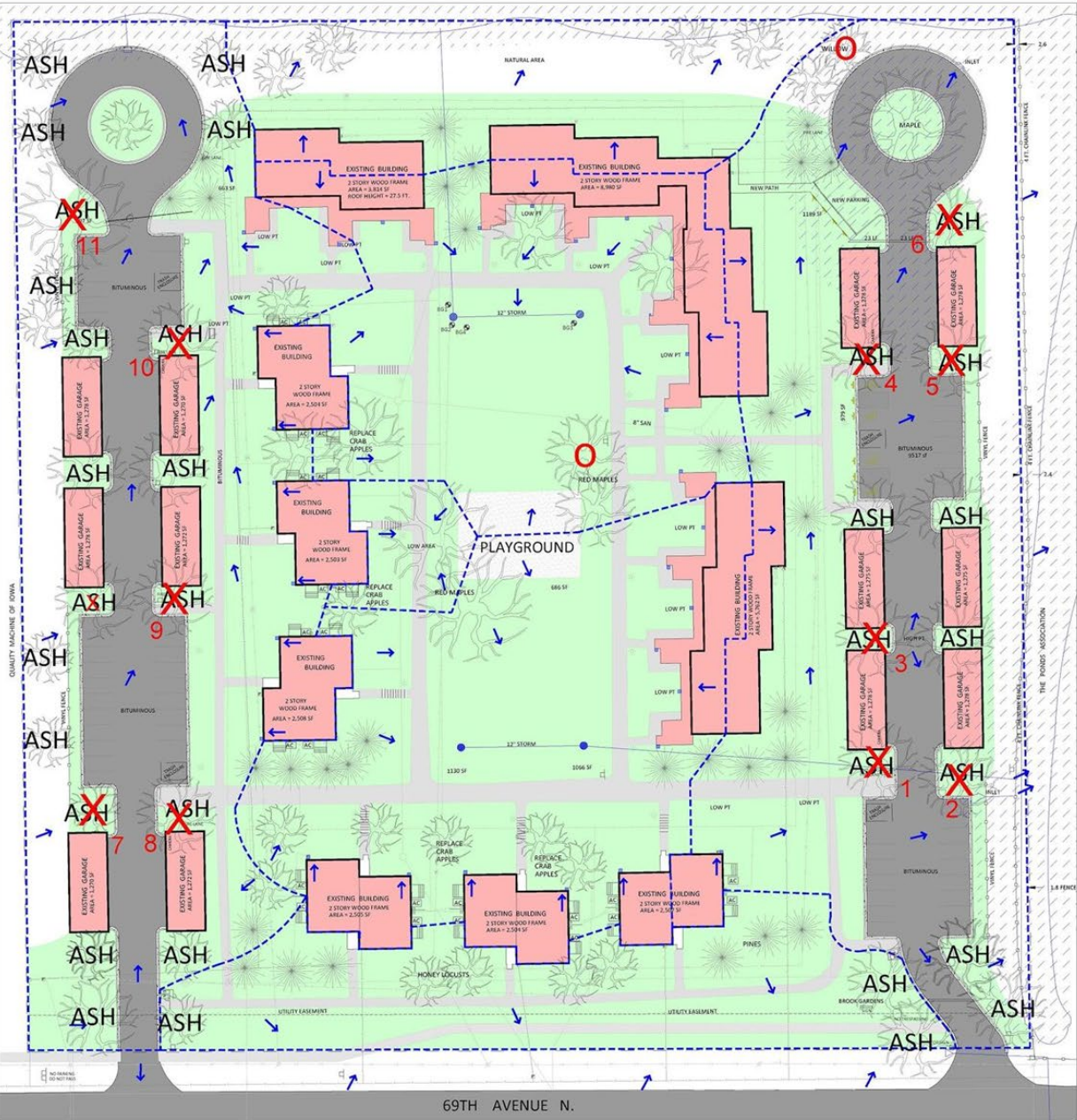


# Sustainable Tree Canopy

Over 20 Drivelane Ash Trees. Planned continuation in 2022



## BROOK GARDENS APARTMENTS AND TOWNHOMES



EXISTING SITE INFO

TOTAL AREA:	354,671 sq ft (8.14 acres)
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= 4.25 Olympic Swimming pools

### LEGEND

- Lawn
- Building
- Parking/Fire Lane
- Walkways/Patios
- Flood zone
- Direction of Runoff
- Downspouts
- Property Line
- Utilities
- Existing Fence
- Sub-catchment areas
- Soil Infiltration Test
- Existing Tree

~~ASH~~ Ash Trees to remove

SOIL INFILTRATION TESTS  
BG1: 8.64 IN/HR  
BG2: 15.64 IN/HR  
BG3: 0.92 IN/HR  
BG4: 5.53 IN/HR

# TREE PLANTING



page 33





# **Shingle Creek Funding: \$30,000**

## **Match:**

- **Hennepin County Opportunity Grant: \$40,257**
- **Boisclair Corporation: \$2,850**
- **Hennepin County Tree Canopy Grant: \$13,000**

**Total Project Cost: \$86,107**

Jennifer Moeller

Landscape Designer, MLA

[jmoeller@metroblooms.org](mailto:jmoeller@metroblooms.org)

Laura Scholl

Project Manager

[laura@metroblooms.org](mailto:laura@metroblooms.org)

metroblooms.org



**WEST MISSISSIPPI  
WATERSHED MANAGEMENT COMMISSION**

**PROJECT REVIEW WM2022-01**

**Owner:** Benjamin Martinson  
2727 Ferry Street N  
Anoka Hennepin Schools  
Anoka, MN 55303

**Engineer:** Timothy Olson  
**Company:** Bolton & Menk, Inc.  
**Address:** 111 Washington Ave N, Suite 650  
Minneapolis, MN 55401  
**Phone:** 651-724-0404  
**Email:** timothy.olson@bolton-menk.com

**Purpose:** Construction of new artificial turf athletic field, new baseball field, trails and associated amenities.

**Location:** Champlin Park High School, 6025 109<sup>th</sup> Ave N, Champlin, MN 55316 (Figure 1)

**Exhibits:**

1. Project review application and project review fee of \$2,200, dated 1/28/22, rcvd. 1/28/22.
2. Project plans [sheets C1.13, C1.23, C1.33, C1.43, C1.53, C1.31 (two sheets)], dated 1/25/22, rcvd. 1/28/22.
3. Letter, project narrative, and associated stormwater management calculations, dated 12/21/21, recd. 1/28/22.

**Findings:**

1. The project proposes to disturb approximately 6.2 acres of the 75-acre parcel. Following development, the site will be approximately 36 percent impervious, an increase of 0.19 acres.
2. The complete Project Review was received on January 28, 2022. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the March 10, 2022 meeting. Sixty calendar-days expires on March 29, 2022.
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 - 80-85% TSS removal and 50-60% TP removal. If a sump is used the MnDOT Road Sand particle size distribution is acceptable for 80% capture.  
  
Runoff from the site is proposed to be routed to pervious areas and a new infiltration basin. The applicant meets Commission water quality treatment requirements.
4. Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the school campus is managed within an existing pond northeast of the parcel. For this project, rate control is achieved using an existing low area within the athletic fields and a new infiltration

basin adjacent to the new artificial turf field. The applicant meets the Commission's rate control requirements.

**Table 1. Runoff from site (cfs).**

Drainage Area	2-year event		10-year event		100-year event	
	Pre-	Post-	Pre-	Post-	Pre-	Post-
To East	5.5	4.8	14.4	13.7	31.4	31.3

5. Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new and reconstructed impervious area on this site is 0.48 acres, requiring that 1,740 cubic feet be infiltrated within 48 hours. The applicant proposes to use impervious disconnection and an infiltration basin to provide 2,420 cubic feet of abstraction. Both have the capacity to infiltrate the required volume within 48 hours, which meets Commission requirements.
6. The NWI does not identify any wetlands on site.
7. There are no Public Waters on this site.
8. There is no floodplain on this site. Freeboard requirements are satisfied as there are no buildings adjacent to the proposed infiltration basin.
9. An erosion control plan was submitted with the project review, and includes rock construction entrance(s), perimeter silt fence, and slope checks. The proposed revegetation plan does not specify native seed within the infiltration basin. The erosion control plan does not meet Commission requirements.
10. A public hearing on the project is not required by the City of Brooklyn Park Planning Commission because there is no change in use within the project area.
11. A Project Review Fee of \$2,200 has been received.

**Recommendation:** Recommend approval subject to the following condition:

1. Specify a native seed mixture for permanent stabilization of the infiltration basin. For the basin bottom, consider potted plants or plugs because seed can be eroded or mobilized by runoff before germination.

Stantec Consulting Services, Inc.  
Engineers for the Commission

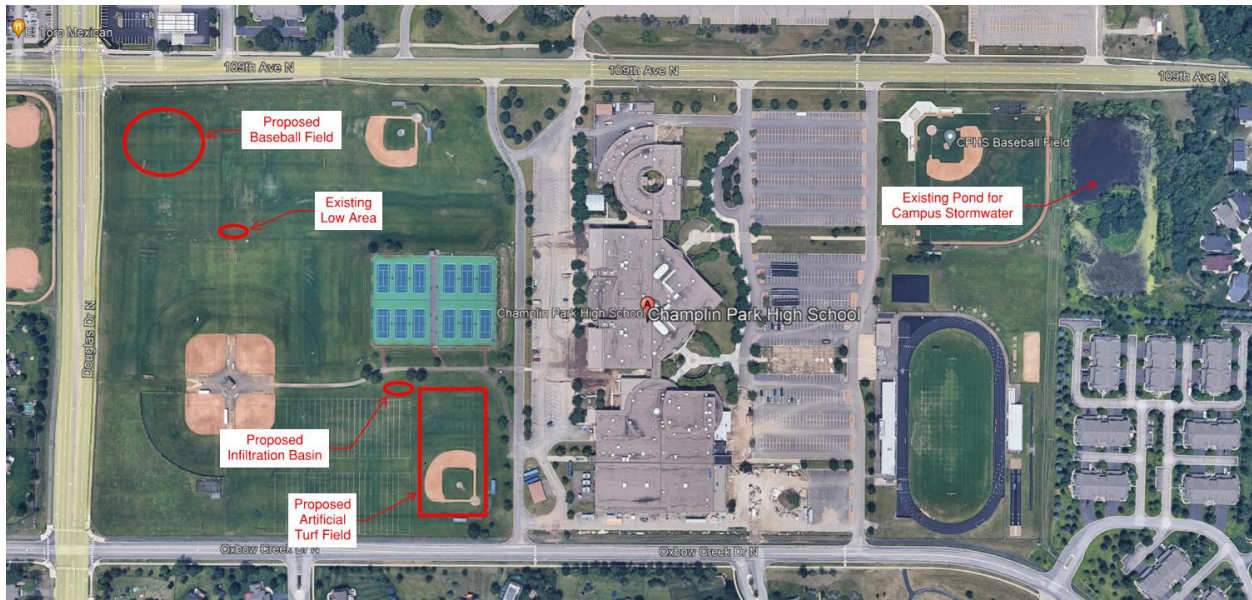
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Ed Matthiesen, P.E.

Date

WM2022-01:

**Figure 1. Site location.**



**To:** Shingle Creek/West Mississippi WMO Commissioners

**From:** Diane Spector  
Katie Kemmitt  
Erik Megow, P.E.

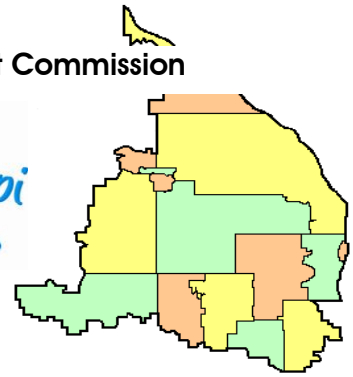
**Date:** February 4, 2022

**Subject:** Fourth Generation Plan Update

<b>Recommended Action</b>	Discuss the TAC recommendations regarding the maintenance policy. Discuss the rules revision. Provide input into monitoring program review.
---------------------------	---

We have four items for discussion at our February meeting:

1. Revised Maintenance Policy that reflects the discussion held in January. Based on a robust discussion with the TAC in January, several revisions were made to the proposed policy. It now is clear that it applies only to maintenance activities that are not already taken on by the member cities, either as part of a cooperative agreement with the Commission or as part of their NPDES requirements.
  - a. The TAC will be discussing at its February 10 meeting and will make recommendations regarding this policy.
2. Rules revisions. The TAC continues to discuss proposed language bringing the rules into conformance with the latest NPDES permit. Some highlights include:
  - a. Revising the rules to replace the current Water Quality requirement of providing 60% TP and 85% TSS removal or infiltrating 1.3 inches, to the new standard of 1.1 inches of volume management through infiltration or abstraction, or a combination of abstraction and filtration.
  - b. Adopting the new requirements for linear projects, potentially establishing an upper dollar limit per pound of TP removal to define “cost effective.”
  - c. Some other housekeeping revisions, some are modernizing references and some are adding clarifying language to support staff interpretations we have been using.
3. Website Interactive Map. We will have a draft version of the Story Map/interactive map to review at the February 10 meeting. It is looking great!
4. Monitoring program framework. We will begin discussing the existing monitoring program to see if it still meets the Commissions' and cities' needs. For example, is there value to continuing monitoring outflow in West Mississippi? Can we adjust the frequency of monitoring in lakes? Should we test for new parameters, do targeted monitoring on outfalls into the creek?



**Shingle Creek  
Watershed Management Commissions  
Maintenance Funding Guidelines**

The Shingle Creek and West Mississippi Watershed Management Commissions undertake projects that aim to improve water resources in the watersheds. Projects are taken on by the Commissions directly or by member cities, with cost-share provided through the Capital Improvements Program (CIP) or the small BMP Cost-Share Program. Maintenance, repair, or replacement of Commission-led projects is often ongoing and necessary to continue providing water quality benefits in the watershed. The Commissions will allocate up to \$50,000 per year to complete maintenance activities not already taken on by member cities that fall under the classifications described below.

Projects that will be considered for Commission funding under the Maintenance Funding policy fall into two categories as follows:

1. Actions to maintain water quality benefits following Commission-led projects such as but not limited to:
  - Annual rough fish maintenance management
  - Rough fish barrier cleaning, repair, and maintenance
  - Whole-lake invasive aquatic vegetation management treatments performed for water quality, excluding those for recreation, aesthetics, or navigation and with DNR concurrence
  - Alum treatment touch-up
  - In-lake vegetation transplanting efforts
  - Research BMP maintenance (e.g., biochar and iron-enhanced sand filters constructed under Watershed projects)
2. Other actions that do not fall within the above category, evaluated on a case-by-case basis by the TAC and recommended to the Commissions.

Actions that will not be considered include any city actions for meeting National Pollutant Discharge Elimination System (NPDES) permit requirements; other activities that are clearly city responsibilities including pond dredging, street sweeping, and removing terrestrial invasive vegetation; and project-related operations and maintenance to which the city previously agreed such as debris removal and bank stabilizations related to stream restoration projects.

All candidate actions will be reviewed by the TAC and recommended to the Commissions for approval. Unallocated funds will carry over from year to year and be maintained in a designated fund account.

DRAFT February 2022  
Adopted:

**To:** Shingle Creek/West Mississippi WMO TAC/Commissioners

**From:** Ed Matthiesen, P.E.  
Diane Spector  
Katie Kemmitt

**Date:** February 10<sup>th</sup>, 2022

**Subject:** 4<sup>th</sup> Generation Plan Monitoring Program

**Recommended TAC & Commission Action**

Discuss.

Over the past few months, the Commissions have continued work on the watersheds' 4<sup>th</sup> Generation Plan, which includes an update to the WMOs' Monitoring Program. Staff are initiating a review of the 3<sup>rd</sup> Generation Plan Monitoring Program and discussion of the 4<sup>th</sup> Generation Monitoring Program.

The 3<sup>rd</sup> Generation Plan Monitoring Program is organized around two principles:

1. Continue routine flow and water quality monitoring in Shingle Creek and volunteer monitoring of lake water quality; and
2. Rotating special monitoring to evaluate progress towards meeting TMDL goals.

Monitoring objectives described in the 3<sup>rd</sup> Generation plan are:

- To quantify the current status of streams and lakes throughout the watersheds in comparison to state water quality standards.
- To quantify changes over time, or trends, in stream and lake water quality in the watersheds.
- To quantify the effectiveness of implemented BMPs throughout the watersheds for the protection of water quality.
- To evaluate progress toward meeting TMDL load reduction and other goals.

Monitoring to achieve the objectives above has consisted of streamflow and water quality monitoring on Shingle Creek and West Mississippi streams and outfalls, CAMP volunteer lake monitoring, intensive lake monitoring of lakes following the schedule developed for the 3<sup>rd</sup> Generation Plan (Table 1), and biological monitoring through Hennepin County programs and Commission funding.

For discussion at the February 10<sup>th</sup>, 2022 meeting staff would like the TAC and Commission to consider the following regarding changes to the Monitoring Program for the 4<sup>th</sup> Generation Plan:

- How can monitoring efforts be best coordinated between cities and the WMO?
- Consider changes to the West Mississippi outfall monitoring schedule and frequency to best address current data needs.
- Equipment replacement and technology upgrade costs. The WMO has invested significant money in equipment, which requires occasional replacement and upgrades.

- Hennepin County has reduced their biological monitoring efforts in recent years due to COVID-19 restrictions. Hennepin County programs may not be a consistent source of data moving forward.

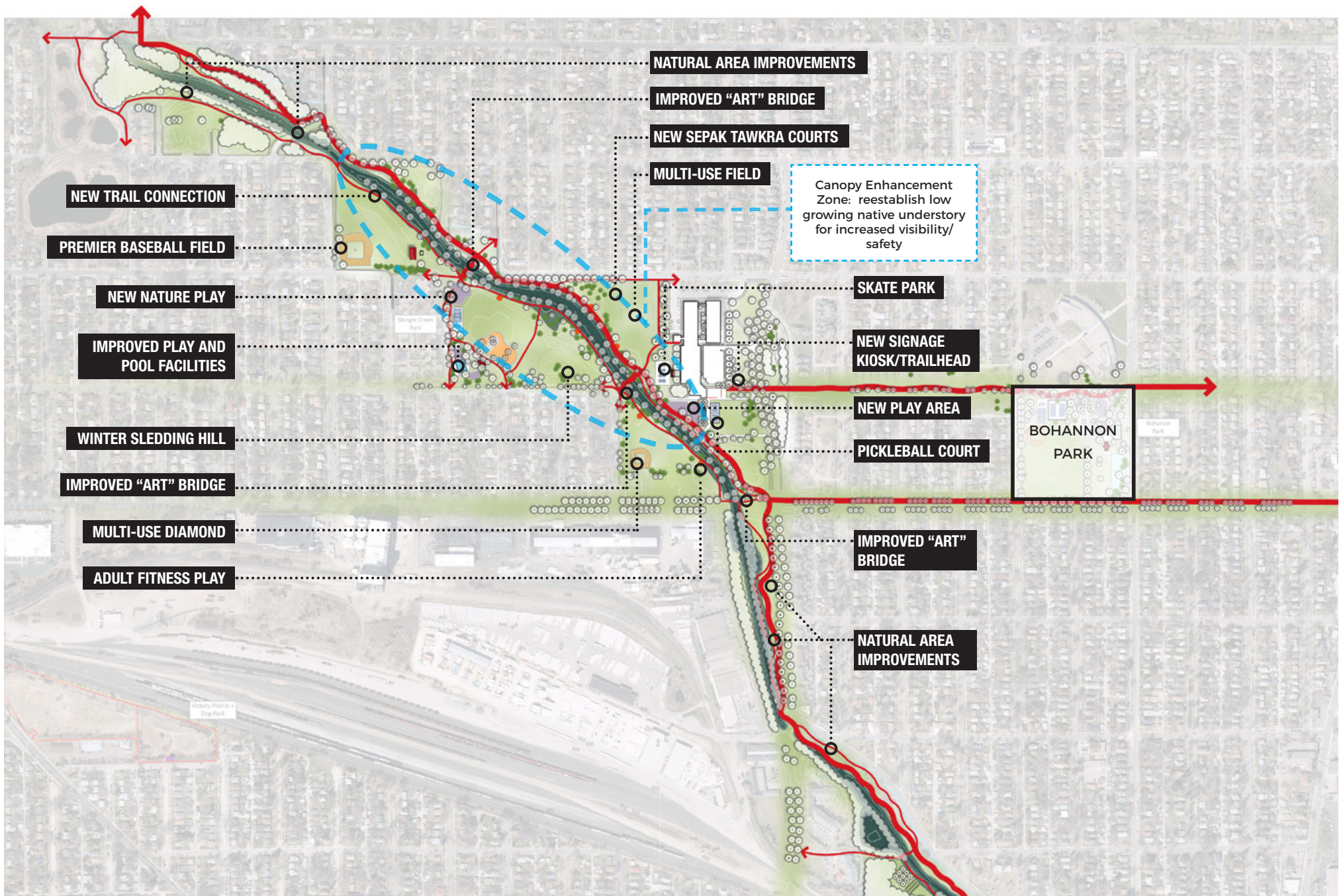
Table 1. Shingle Creek Lake Monitoring Schedule from the 3<sup>rd</sup> Generation Plan.

	Water Quality Monitoring											Aquatic Vegetation Survey											Sediment Core Assessment					Chloride Baseline						
Lake	12	13	14	15	16	17	18	19	20	21	22	12	13	14	15	16	17	18	19	20	21	22	12	13	14	15	16	17	18	19	20	21	22	
Bass		x	C	x		x		C		x				X						X												O		
Eagle		x		C		x		x	C	x					X						X						O				O			
Pike		x		C		x		x	C	x					X						X									O				
Twin Middle	C		x		x	C	x		x		x	X					X									O					O			
Ryan	x	C	x		x		C		x		x		X						X							X								
Schmidt		x	C	x		x		C		x				X						X													O	
Twin Lower	C		x		x	C	x		x		x	X					X						X		X					O				
Cedar Island	x			C			x		C	x					X						X												O	
Crystal		C	x		x		C		x		x		X					X													O			
Pomerleau		C						C					X						X								X							
Twin Upper	C		x		x	C	x		x		C	X					X						X											
Magda	x			x			x			x	C												X		X						O			
Meadow			x		C	x			x	C						X						X												
Success			x		C	x			x	C					X							X												

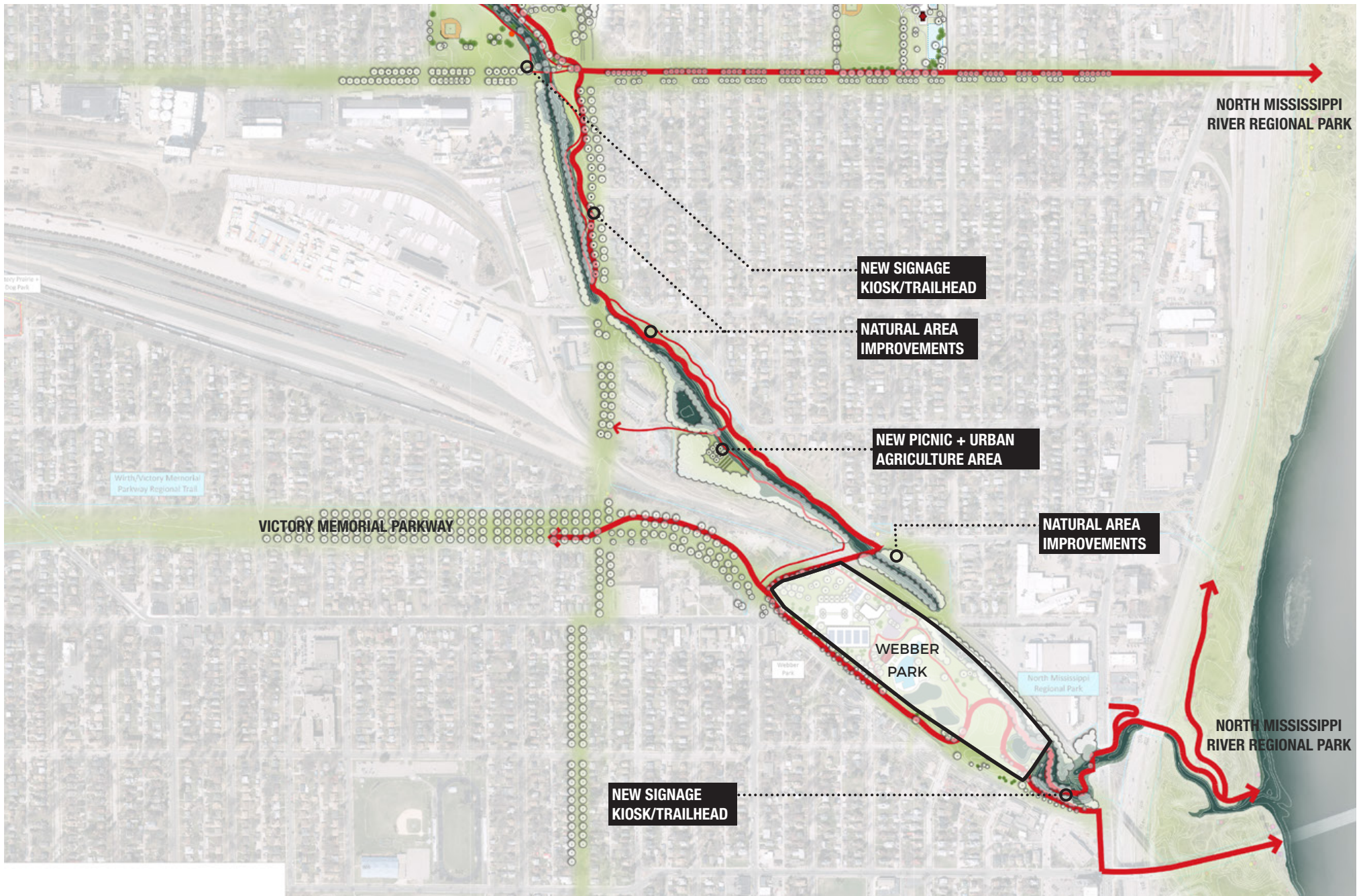
x Volunteer monitored (CAMP)  
C Commission monitored

X Commission monitored

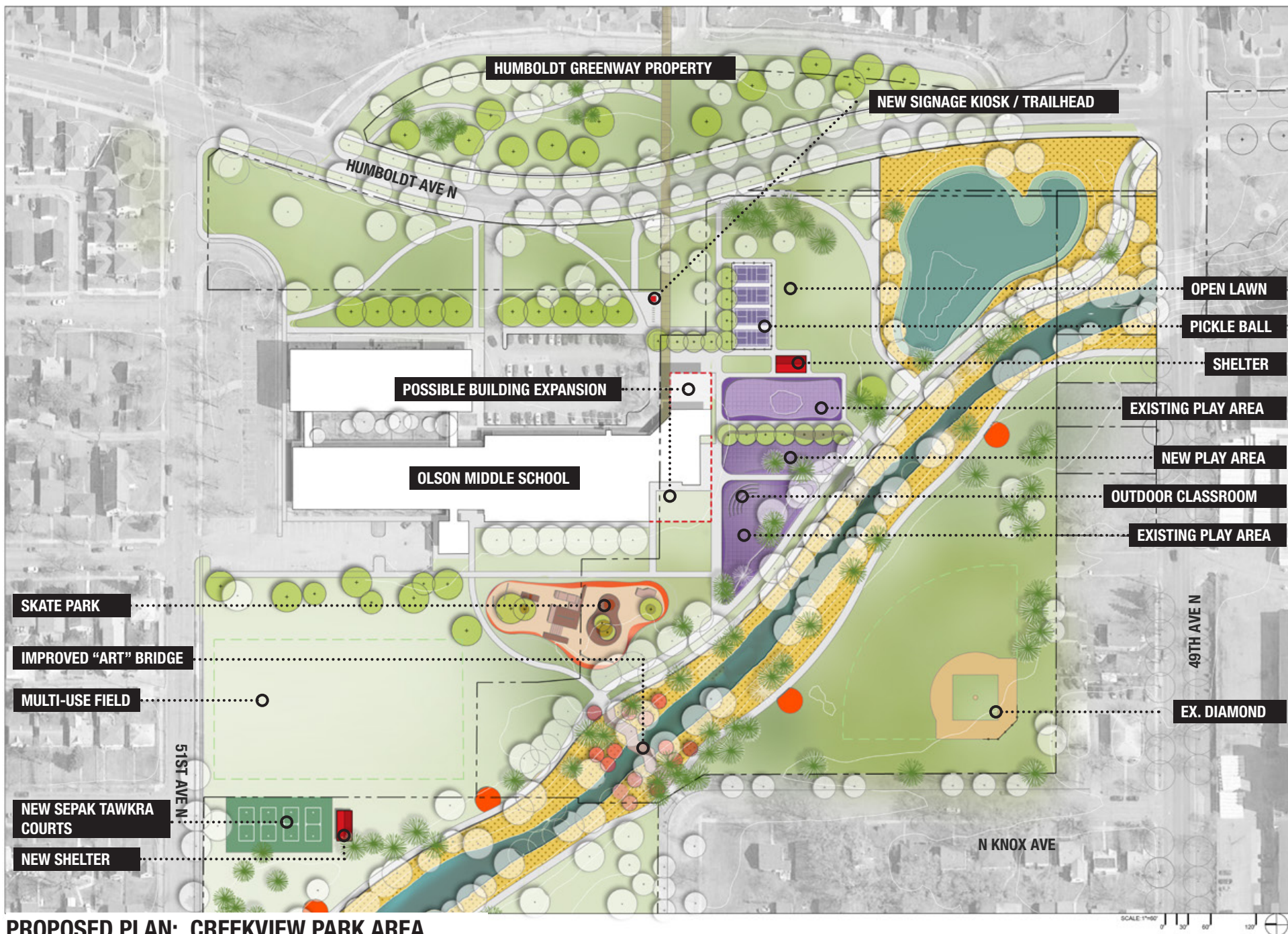
X Commission monitored  
O Optional



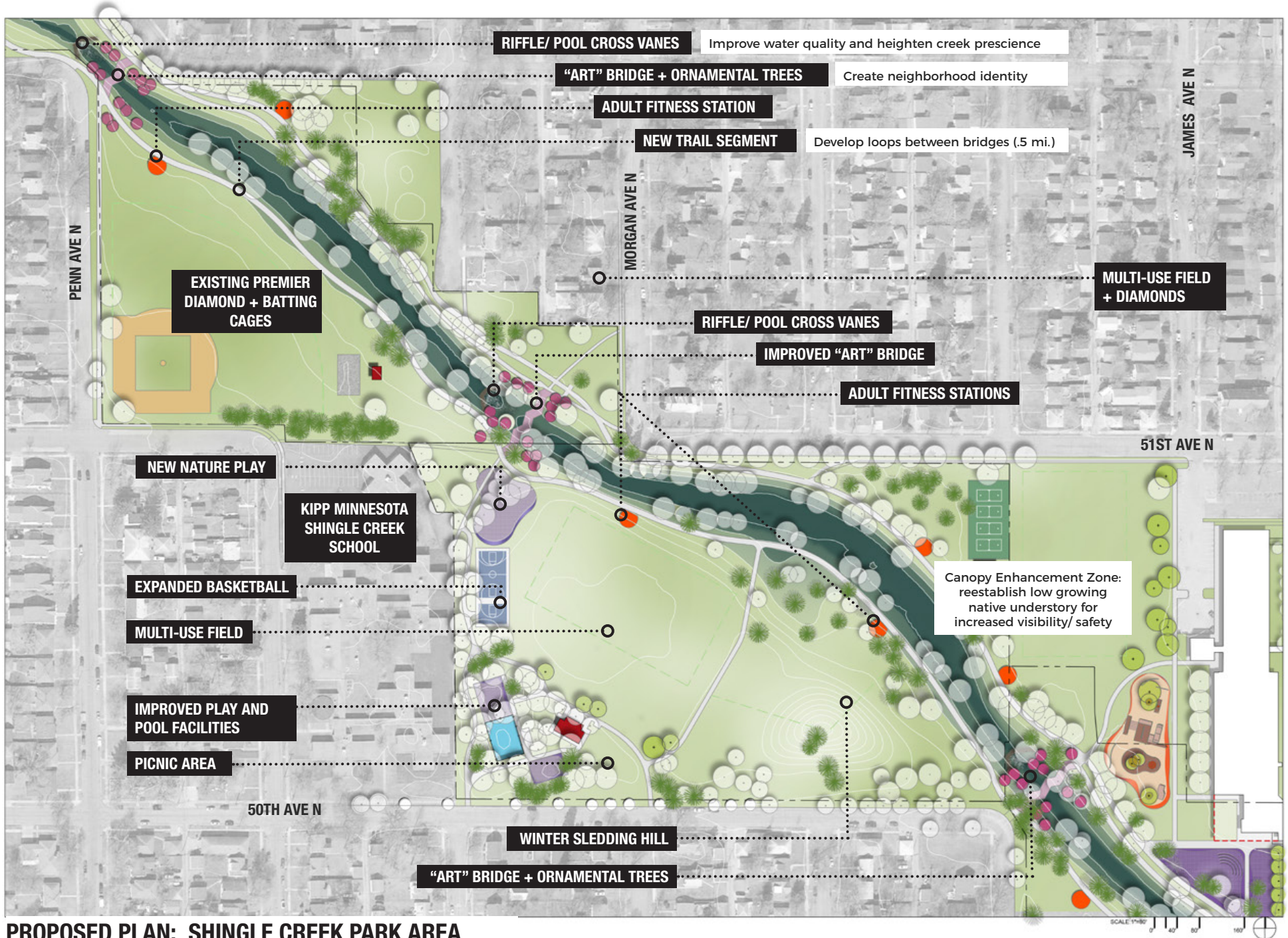
## PROPOSED PLAN: SHINGLE CREEK REGIONAL



## PROPOSED PLAN: SHINGLE CREEK REGIONAL



**PROPOSED PLAN: CREEKVIEW PARK AREA**



**To:** Shingle Creek/West Mississippi WMO TAC/Commissioners

**From:** Ed Matthiesen, P.E.  
Diane Spector  
Katie Kemmitt

**Date:** February 4<sup>th</sup>, 2022

**Subject:** Bass Lake Vegetation Improvements Conservation Partners Legacy Grant Application

**Recommended TAC  
Action**

For review and discussion.

At the January 2022 Commission meeting staff was directed to move forward with a DNR Conservation Partners Legacy Grant application to fund aquatic vegetation transplants to Bass Lake. Conservation Partners Legacy Grants fund conservation projects that restore, enhance, or protect forests, wetlands, prairies, and habitat for fish, game, and wildlife in Minnesota. Staff have begun writing the Bass Lake grant application with a focus on the habitat improvements that will be made in the lake. Attached is the evaluation criteria table used to score applications and the current state of the grant application text as of February 4<sup>th</sup>, 2022. Staff is in the process of obtaining Letters of Support from the City of Plymouth and the Bass Lake Improvement Association to accompany the grant application.

A budget estimate is still underway, but the project will likely cost \$25-28,000, with a grant request of about \$25,000. A 10% match will be required and will be provided by a combination of Bass Lake Improvement Association in-kind labor and cash match from the reserve funds left over from the Bass and Pomerleau Lakes alum treatment project. A final budget will be available at the February 10<sup>th</sup> meeting.

## Conservation Partners Legacy Grant Program

### Evaluation Criteria Table

Applications are scored based on the 6 criteria listed below, using only the information provided within the application. Applicants should be sure their applications contain enough information for reviewers to consider all 6 criteria. Information may be provided on the Project Summary page of the application, or specifically requested on the Project Information page.

<b>1</b>	<b>Overall Project Value</b>	
	Critical habitat corridor; habitat quality/quantity	Amount, quality, and/or connectivity of habitat restored, protected and/or enhanced
	Consistent with current conservation science	Project use of currently accepted science and methods, increased efficiency and life expectancy of work completed
	Sustainability	Overall life expectancy of project
	Use of native plants	Use of local ecotype, native vegetation in form of seed, seedlings, root stock, etc.
<b>2</b>	<b>Applicant Performance</b>	
	Encouragement of local conservation culture	Applicant's past activities with local community in regards to conservation
	Collaboration and local support	Applicant's current interaction with other groups or agencies; current application support by multiple entities
	Capacity to successfully complete work	Applicant's history of receiving and successfully completing conservation work and grants
<b>3</b>	<b>Project Benefits</b>	
	Multiple benefits	Multiple or diverse species benefits; project directly improves intended species, indirect benefit to others
	Habitat benefits	Multiple or diverse habitat benefits; project directly improves intended habitat, indirect benefit to others
<b>4</b>	<b>Public Benefits</b>	
	Adjacent to protected lands	Project site(s) proximity to current protected land (public or private)
	Public access	Project site(s) availability for hunting, fishing, and other wildlife-based recreation
<b>5</b>	<b>Financial Assessment</b>	
	Full funding of project	All costs are identified and accounted for; all partners have submitted letters committing funds
	Supplements existing funding	Project would not be completed without CPL funding; CPL does not replace traditional sources of funding
	Budget and cost effectiveness	Project is succinct- no unnecessary costs or work has been added; costs are relative to location of project
<b>6</b>	<b>Urgency</b>	
	Urgency	Funding importance at this time: species or opportunity potentially lost

**Provide a clear, concise summary of what your proposal is about. This summary will be used to describe your project to reviewers and other parties.**

A healthy, diverse submersed native vegetation community will be restored in Bass Lake in Plymouth, Minnesota. The lake is a public water in the Shingle Creek Watershed and is actively managed by the Watershed, the City, and the Bass Lake Improvement Association (BLIA). The Watershed, in partnership with the DNR and the BLIA, will use DNR techniques for transplanting and monitoring local, native aquatic vegetation to restore the lake's vegetation community. The restored vegetation community will support a healthy shallow lake that provides key habitat, food sources, and cover for both aquatic organisms, waterfowl and other birds, and other animals.

**Describe the specific need or problem that is being addressed, why it is important, how it was identified, and what is affected by it. Include any facts or statistics that support it, and a pre-project description of the site(s).**

Shallow lakes exist in alternative stable states where the clear water, biologically diverse state is dominated by emergent and submersed aquatic vegetation and the turbid, low diversity state is dominated by algae. A healthy aquatic vegetation community provides cover and nesting material for birds; seeds and tubers to feed waterfowl; cover and habitat for invertebrates and other animals; structure for emerging insects; and more. Robust, diverse aquatic vegetation is key to establishing a balanced shallow lake ecosystem that can support healthy fish and other wildlife communities and benefit humans alike.

Bass Lake is 175-acre, shallow lake in Plymouth, Minnesota. The aquatic habitat of the lake has been significantly affected by development of the watershed. Excessive nutrient loading caused summertime algae blooms that decreased water quality, reduced light availability to submersed aquatic vegetation, and created low oxygen conditions in the lake. The lake was listed on the State's 303(d) list in 2002 as an impaired water for excess nutrients. In 2018, active management to improve the lake ecosystem began. Aluminum sulfate treatments were applied to the lake in 2019 and 2020 and the City has implemented BMPs to reduce watershed nutrient loads. These actions have resulted in restored water quality in the lake. Total phosphorus, chlorophyll-a, and Secchi depth measurements are now meeting water quality standards. Water quality metrics in 2021 were the best on-record. Despite improvements in water quality, the aquatic vegetation community of Bass Lake is limited in its extent and diversity. The aquatic invasive species (AIS) curly leaf pondweed (CLP) covers a large area of the lake in spring, with as high as 61% frequency of occurrence at sampled points, outcompeting native vegetation. In late summer, the vegetation community is dominated by coontail, and in 2021 only 62% points sampled within the littoral area had vegetation growth. In recent years aquatic species diversity in the lake has been as low as 7 species.

**Explain the expected results and benefits of the project. List specific, measurable results that you expect to accomplish. Specifically provide information on any and all habitat benefits of the project, and how the budget is cost effective. Indicate if site is adjacent to protected land and if there are multiple benefits resulting from the project.**

The proposed project will benefit fish and wildlife habitat of Bass Lake, increasing the number of native aquatic species in the lake and supporting the clear water state. After vegetation transplanting on Bass

Lake, littoral plan frequency is expected to increase to near 100%, a desirable goal for a healthy, shallow lake. Floristic Quality Index (FQI), a community metric used to score the health of the vegetation community, will consistently meet the suggested DNR standard of 17.8. Aquatic species diversity will consistently exceed historic data and meet the suggested DNR standard of 11 species.

Restoring the native vegetation community has multiple benefits, including providing valuable habitat for suburban wildlife. Restored vegetation community will have indirect benefits of supporting good water quality in the lake for wildlife and lake users, and will provide needed shoreline protection, reducing shoreline erosion from wind and boat use.

Bass Lake is adjacent to over 56 acres of City of Plymouth park. The park has a large, popular fishing pier and the park is available to the community for hiking, birdwatching, fishing, swimming, and more. The lake is less than a half mile from Eagle Lake Regional Park and Eagle and Pike Lakes, which both have shoreline areas designated as Ecologically Significant Areas. Increasing good habitat near these Significant Areas is key to creating habitat corridors in developed areas.

**Describe in detail the activities that will take place in order to achieve the desired results and WHY you have chosen them. Include methods, materials, and who will do the work.**

The Watershed has already been working closely with the DNR, the Bass Lake Improvement Association, and the City to organize management activities. Completion of this project will rely on grant dollars and this partnership.

Summer 2022: Native, desirable vegetation species will be introduced to Bass Lake from a to-be-determined donor lake on two occasions in 2022. The purpose of native plant introduction is to increase the diversity and robustness of the plant community in Bass Lake. Vegetation harvesting from the donor lake will occur in mid and late summer and will involve Watershed staff, the BLIA, and the DNR Invasive Species Program specialists. The Watershed will follow the DNR's In-Lake Aquatic Plant Restoration Guidance (2022) for harvesting and transplanting techniques. Desirable vegetation species will be fixed to biodegradable material (coconut fiber, burlap, etc.) and fixed to the lake bottom in fence enclosures. Fence enclosures will prevent herbivory by turtles, muskrats, and other animals and allow for accurate monitoring of vegetation survival. Between the first and second transplant event, the Watershed will complete biweekly monitoring of stem counts. Following the second event, Watershed staff will continue biweekly monitoring until not feasible.

Spring/Early Summer 2023: As soon as ice-out, Watershed staff will return to the lake to assess the overwintering of enclosures. Necessary repairs will be made.

Late Summer 2023: Watershed staff will complete a point-intercept aquatic vegetation survey, including biovolume estimates collected with sonar data, according to established DNR methods to document any changes to the lake's vegetation community and spread.

**Describe your organization's ability to successfully complete this work, including experience in the area of interest and ability to successfully implement the proposed project. Include descriptions of your most recent grant experience and if the expected outcomes were achieved.**

The Shingle Creek Watershed District has been actively managing Bass Lake for improved water quality for the last 4 years and has been monitoring the lake for over X AMOUNT OF TIME. The Watershed has worked with the City of Plymouth to implement watershed BMPs to support better water quality in the lake. The Watershed has performed 7 aquatic vegetation surveys on Bass Lake, delineated for CLP many times, and coordinated herbicide applications for control of CLP. They have worked closely with the residents of the lake to cooperatively manage lake vegetation. Alum treatments on Bass Lake were funded by a BWSR Clean Water Fund grant. Reduced internal loading through alum applications was successfully achieved under the grant, and the lake is experiencing the best water quality on-record as a result.

In 2021, the Watershed in partnership with the City, received an additional Clean Water Fund grant to complete a stream restoration and BMPs installation project on Palmer Creek, a tributary to Bass Lake. The goal of the project is to reduce nutrients and sediment flowing into Bass Lake from the creek, improving aquatic habitat for fish and waterfowl.

The Watershed is currently working on the Crystal Lake Management Plan, a 319 grant administered by the PCA. Over 30% of the lake's estimated carp population has been removed using standard carp removal techniques, and one dose of an alum treatment has been applied. The Watershed works closely with the PCA to submit progress reports through the duration of the project.

## How will your organization directly involve, engage, and benefit BIPOC (Black, Indigenous, People of Color) and diverse communities with this project or through other activities?

While the project does not directly impact the BIPOC and other diverse communities locally or in the city, Timber Shores Park is adjacent to Bass Lake and has over 1.1 miles of public trail, parking, restrooms, play equipment, and a fishing pier. The park can be enjoyed by anyone in the community. The City of Plymouth is committed to reaching out to all residents, property owners, and visitors to its community using a variety of communication methods and opportunities and will include information about this project in those efforts. It is unknown at this time if the BIPOC or other diverse communities are represented on the lake association.

## Project Timeline

Time Frame (month, season, and/or year)	Goal
June/July 2022	Complete one harvest and planting event with assistance from DNR and BLIA
July/August	Complete biweekly monitoring of enclosures
September	Complete second harvest and planting event with assistance from DNR and BLIA
June 2023	Assess overwintering of enclosures
August 2023	Complete point-intercept and biovolume lake vegetation survey to assess success of transplantings

**To:** Shingle Creek WMO Commissioners

**From:** Ed Matthiesen, P.E.  
Diane Spector

**Date:** February 4, 2022

**Subject:** Palmer Creek Estates Grant Agreement

**Recommended  
Commission Action**

Ratify the administrative execution of the grant agreement. Authorize execution of a cooperative and subgrant agreement with the city of Plymouth for completion of this project.

Attached is the grant agreement between the Board of Water and Soil Resources (BWSR) and the Commission for the recently awarded Palmer Creek Estates Stream Stabilization project in the city of Plymouth. As a reminder, this project is a stream restoration of a portion of what used to be the Bass Creek channel upstream of Bass Lake, and installation of underground treatment devices to treat stormwater before being discharged into the channel and into the lake. The administrator executed the draft agreement and sent it back to BWSR to work its way through its approval process. The request action is ratification of that administrative signature. It should be noted that this grant agreement is similar to the many other BWSR grant agreements the Commission has executed in the past.

At the time the Commission ordered the project in September 2021, you authorized developing and executing a cooperative agreement with the City of Plymouth to construct the project. Staff held off on developing that agreement because the grant application was still pending. BWSR subsequently awarded the grant, and that cooperative agreement should now be a cooperative and subgrant agreement. In a cooperative and subgrant agreement, the City agrees to take on responsibility for the project and Commission agrees to reimburse the City for costs from the grant as well as other sources (such as levy) as necessary. The City agrees to be bound by the requirements of the BWSR grant agreement. These are standard agreements drafted by the attorney that we routinely use for CIP projects.



FY 2022 STATE OF MINNESOTA  
BOARD OF WATER and SOIL RESOURCES  
CLEAN WATER FUND COMPETITIVE GRANTS PROGRAM  
GRANT AGREEMENT

Vendor:	0000237333
PO#:	3000014361

This Grant Agreement is between the State of Minnesota, acting through its Board of Water and Soil Resources (Board) and **Shingle Creek WMC, 3235 Fernbrook Lane Plymouth Minnesota 55447** (Grantee).

***This grant is for the following Grant Programs:***

C22-0255	Palmer Creek Stream Stabilization	\$384,000
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**Total Grant Awarded: \$384,000**

**Recitals**

1. The Laws of Minnesota 2019, 1st Special Session, Chapter 2, Article 2, Sec. 7(b), appropriated Clean Water Funds (CWF) to the Board for the FY22 Clean Water Fund Projects & Practices Grants.
2. The Laws of Minnesota 2021, 1st Special Session, Chapter 1, Article 2, Sec. 6(b) &(j), appropriated Clean Water Funds (CWF) to the Board for the FY22 Clean Water Fund Projects & Practices Grants.
3. The Board adopted the FY22 Clean Water Fund Competitive Grant Policy and authorized the FY22 Clean Water Fund Competitive Grants Program through Board Order #21-16.
4. The Board adopted Board Order #21-54 to allocate funds for the FY22 Clean Water Fund Competitive Grants Program.
5. The Grantee has submitted a Board approved work plan for this Program, which is incorporated into this Grant Agreement by reference.
6. The Grantee represents that it is duly qualified and agrees to perform all services described in this Grant Agreement to the satisfaction of the Board.
7. As a condition of the grant, Grantee agrees to minimize administration costs.

**Authorized Representative**

The State's Authorized Representative is Marcey Westrick, Central Region Manager, BWSR, 520 Lafayette Road North, Saint Paul, MN 55155, 651-284-4153, or her successor, and has the responsibility to monitor the Grantee's performance and the authority to accept the services and performance provided under this Grant Agreement.

The Grantee's Authorized Representative is:	<b>TITLE</b>	<b>Judie Anderson, Administrator</b>
	<b>ADDRESS</b>	<b>3235 Fernbrook Lane N</b>
	<b>CITY</b>	<b>Plymouth, MN 55447</b>
	<b>TELEPHONE NUMBER</b>	<b>763.553.1144</b>

If the Grantee's Authorized Representative changes at any time during this Grant Agreement, the Grantees must immediately notify the Board.

**Grant Agreement**

1. **Terms of the Grant Agreement.**
  - 1.1. **Effective date:** The date the Board obtains all required signatures under Minn. Stat. § 16B.98, Subd. 5. **The Board will notify the Grantee when this Grant Agreement has been executed. The Grantee must not begin work under this Grant Agreement until it is executed.**
  - 1.2. **Expiration date:** **December 31, 2024**, or until all obligations have been satisfactorily fulfilled, whichever comes first.

1.3. **Survival of Terms:** The following clauses survive the expiration date or cancellation of this Grant Agreement: 7. Liability; 8. State Audits; 9. Government Data Practices; 11. Publicity and Endorsement; 12. Governing Law, Jurisdiction, and Venue; 14. Data Disclosure; and 19. Intellectual Property Rights.

2. **Grantee's Duties.**

The Grantee will comply with required grants management policies and procedures set forth through Minn. Stat § 16B.97, Subd. 4(a)(1). The Grantee is responsible for the specific duties for the Program as follows:

2.1. **Implementation:** The Grantee will implement their work plan, which is incorporated into this Grant Agreement by reference.

2.2. **Reporting:** All data and information provided in a Grantee's report shall be considered public.

2.2.1. The Grantee will submit an annual progress report to the Board by February 1 of each year on the status of Program implementation by the Grantee. Information provided must conform to the requirements and formats set by the Board. All individual grants over \$500,000 will also require a reporting expenditure by June 30 of each year.

2.2.2. The Grantee will prominently display on its website the Clean Water Legacy Logo and a link to the Legislative Coordinating Commission website.

2.2.3. Final Progress Report: The Grantee will submit a final progress report to the Board by February 1, 2025 or within 30 days of completion of the project, whichever occurs sooner. Information provided must conform to the requirements and formats set by the Board.

2.3. **Match:** The Grantee will ensure any local match requirement will be provided as stated in Grantee's approved work plan.

3. **Time.**

The Grantee must comply with all the time requirements described in this Grant Agreement. In the performance of this Grant Agreement, time is of the essence.

4. **Terms of Payment.**

4.1. Grant funds will be distributed in three installments: 1) The first payment of 50% will be distributed after the execution of the Grant Agreement. 2) The second payment of 40% will be distributed after the first payment of 50% has been expended and reporting requirements have been met. An eLINK Interim Financial Report that summarizes expenditures of the first 50% must be signed by the Grantee and approved by the Board. Selected grantees may be required at this point to submit documentation of the expenditures reported on the Interim Financial Report for verification. 3) The third payment of 10% will be distributed after the grant has been fully expended and reporting requirements are met. The final, 10% payment must be requested within 30 days of the expiration date of the Grant Agreement. An eLINK Final Financial Report that summarizes final expenditures for the grant must be signed by the Grantee and approved by the Board.

4.2. All costs must be incurred within the grant period.

4.3. All incurred costs must be paid before the amount of unspent funds is determined. Unspent grant funds must be returned within 30 days of the expiration date of the Grant Agreement.

4.4. The obligation of the State under this Grant Agreement will not exceed the amount listed above.

4.5. This grant includes an advance payment of 50% of the grant's total amount. Advance payments allow the Grantee to have adequate operating capital for start-up costs, ensure their financial commitment to landowners and contractors, and to better schedule work into the future.

5. **Conditions of Payment.**

5.1. All services provided by the Grantee under this Grant Agreement must be performed to the Board's satisfaction, as set forth in this Grant Agreement and in the Board approved work plan for this Program. Compliance will be determined at the sole discretion of the State's Authorized Representative and in accordance with all applicable federal, State, and local laws, policies, ordinances, rules, FY21 Clean Water Fund Competitive Grant Policy, and regulations. The Grantee will not receive payment for work found by the Board to be unsatisfactory or performed in violation of federal, State or local law.

5.2. Minnesota Statutes §103C.401 (2018) establishes the Board's obligation to assure program compliance. If the noncompliance is severe, or if work under the Grant Agreement is found by the Board to be unsatisfactory or performed in violation of federal, State, or local law, the Board has the authority to require the repayment of grant funds or withhold payment on grants from other programs.

6. **Assignment, Amendments, and Waiver**

6.1. **Assignment.** The Grantee may neither assign nor transfer any rights or obligations under this Grant Agreement without the prior consent of the Board and a fully executed Assignment Agreement, executed and approved by the same parties who executed and approved this Grant Agreement, or their successors in office.

- 6.2. **Amendments.** Any amendments to this Grant Agreement must be in writing and will not be effective until it has been approved and executed by the same parties who approved and executed the original Grant Agreement, or their successors in office. Amendments must be executed prior to the expiration of the original Grant Agreement or any amendments thereto.
- 6.3. **Waiver.** If the Board fails to enforce any provision of this Grant Agreement, that failure does not waive the provision or its right to enforce it.
7. **Liability.**  
The Grantee must indemnify, save, and hold the State, its agents, and employees harmless from any claims or causes of action, including attorney's fees incurred by the State, arising from the performance of this Grant Agreement by the Grantee or the Grantee's agents or employees. This clause will not be construed to bar any legal remedies the Grantee may have for the State's failure to fulfill its obligations under this Grant Agreement.
8. **State Audits.**  
Under Minn. Stat. § 16B.98, Subd. 8, the Grantee's books, records, documents, and accounting procedures and practices of the Grantee or other party relevant to this Grant Agreement or transaction are subject to examination by the Board and/or the State Auditor or Legislative Auditor, as appropriate, for a minimum of six years from the end of this Grant Agreement, receipt and approval of all final reports, or the required period of time to satisfy all State and program retention requirements, whichever is later.
- 8.1. The books, records, documents, accounting procedures and practices of the Grantee and its designated local units of government and contractors relevant to this grant, may be examined at any time by the Board or Board's designee and are subject to verification. The Grantee or delegated local unit of government will maintain records relating to the receipt and expenditure of grant funds.
9. **Government Data Practices.**  
The Grantee and State must comply with the Minnesota Government Data Practices Act, Minn. Stat. Ch. 13, as it applies to all data provided by the State under this Grant Agreement, and as it applies to all data created, collected, received, stored, used, maintained, or disseminated by the Grantee under this Grant Agreement. The civil remedies of Minn. Stat. § 13.08 apply to the release of the data referred to in this clause by either the Grantee or the State.
10. **Workers' Compensation.**  
The Grantee certifies that it is in compliance with Minn. Stat. § 176.181, Subd. 2, pertaining to workers' compensation insurance coverage. The Grantee's employees and agents will not be considered State employees. Any claims that may arise under the Minnesota Workers' Compensation Act on behalf of these employees and any claims made by any third party as a consequence of any act or omission on the part of these employees are in no way the State's obligation or responsibility.
11. **Publicity and Endorsement.**  
11.1. **Publicity.** Any publicity regarding the subject matter of this Grant Agreement must identify the Board as the sponsoring agency. For purposes of this provision, publicity includes notices, informational pamphlets, press releases, research, reports, signs, and similar public notices prepared by or for the Grantee individually or jointly with others, or any subcontractors, with respect to the program, publications, or services provided resulting from this Grant Agreement.  
11.2. **Endorsement.** The Grantee must not claim that the State endorses its products or services
12. **Governing Law, Jurisdiction, and Venue.**  
Minnesota law, without regard to its choice-of-law provisions, governs this Grant Agreement. Venue for all legal proceedings out of this Grant Agreement, or its breach, must be in the appropriate State or federal court with competent jurisdiction in Ramsey County, Minnesota.
13. **Termination.**  
13.1. The Board may cancel this Grant Agreement at any time, with or without cause, upon 30 days' written notice to the Grantee. Upon termination, the Grantee will be entitled to payment, determined on a pro rata basis, for services satisfactorily performed.  
13.2. In the event of a lawsuit, an appropriation from a Clean Water Fund is canceled to the extent that a court determines that the appropriation unconstitutionally substitutes for a traditional source of funding.  
13.3. The Board may immediately terminate this Grant Agreement if the Board finds that there has been a failure to comply with the provisions of this Grant Agreement, that reasonable progress has not been made or that the purposes for which the funds were granted have not been or will not be fulfilled. The Board may take action to protect the interests of the State of

Minnesota, including the refusal to disburse additional funds and requiring the return of all or part of the funds already disbursed.

**14. Data Disclosure.**

Under Minn. Stat. § 270C.65, Subd. 3, and other applicable law, the Grantee consents to disclosure of its social security number, federal employer tax identification number, and/or Minnesota tax identification number, already provided to the State, to federal and State tax agencies and State personnel involved in the payment of State obligations. These identification numbers may be used in the enforcement of federal and State tax laws which could result in action requiring the Grantee to file State tax returns and pay delinquent State tax liabilities, if any.

**15. Prevailing Wage.**

It is the responsibility of the Grantee or contractor to pay prevailing wage for projects that include construction work of \$25,000 or more, prevailing wage rules apply per Minn. Stat. §§ 177.41 through 177.44. All laborers and mechanics employed by grant recipients and subcontractors funded in whole or in part with these State funds shall be paid wages at a rate not less than those prevailing on projects of a character similar in the locality. Bid requests must state the project is subject to prevailing wage.

**16. Municipal Contracting Law.**

Per Minn. Stat. § 471.345, grantees that are municipalities as defined in Subd. 1 of this statute must follow the Uniform Municipal Contracting Law. Supporting documentation of the bidding process utilized to contract services must be included in the Grantee's financial records, including support documentation justifying a single/sole source bid, if applicable.

**17. Constitutional Compliance.**

It is the responsibility of the Grantee to comply with requirements of the Minnesota Constitution regarding the use of Clean Water Funds to supplement traditional sources of funding.

**18. Signage.**

It is the responsibility of the Grantee to comply with requirements for project signage as provided in Minnesota Laws 2010, Chapter 361, Article 3, Section 5(b) for Clean Water Fund projects.

**19. Intellectual Property Rights.**

The State owns all rights, title, and interest in all of the intellectual property rights, including copyrights, patents, trade secrets, trademarks, and service marks in the Works and Documents *created and paid for under this grant*. Works means all inventions, improvements, discoveries, (whether or not patentable), databases, computer programs, reports, notes, studies, photographs, negatives, designs, drawings, specifications, materials, tapes, and disks conceived, reduced to practice, created or originated by the Grantee, its employees, agents, and subcontractors, either individually or jointly with others in the performance of this grant. Work includes "Documents." Documents are the originals of any databases, computer programs, reports, notes, studies, photographs, negatives, designs, drawings, specifications, materials, tapes, disks, or other materials, whether in tangible or electronic forms, prepared by the Grantee, its employees, agents or subcontractors, in the performance of this grant. The Documents will be the exclusive property of the State and all such Documents must be immediately returned to the State by the Grantee upon completion or cancellation of this grant at the State's request. To the extent possible, those Works eligible for copyright protection under the United State Copyright Act will be deemed to be "works made for hire." The Grantee assigns all right, title, and interest it may have in the Works and the Documents to the State. The Grantee must, at the request of the State, execute all papers and perform all other acts necessary to transfer or record the State's ownership interest in the Works and Documents.

IN WITNESS WHEREOF, the parties have caused this Grant Agreement to be duly executed intending to be bound thereby.

Approved:

Shingle Creek WMC

Board of Water and Soil Resources

By: JUDIE A ANDERSON  
(print)  
Judie A Anderson  
(signature)

Title: Administrator

Date: 01-17-2022

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**To:** Shingle Creek/West Mississippi WMO Commissioners/TAC

**From:** Diane Spector

**Date:** February 3, 2022

**Subject:** Watershed Based Implementation Funding Convene Meeting Preparation

<b>Recommended Action</b>	For each watershed, designate two city representatives and a watershed representative. Provide general guidance to the selected designees.
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The Board of Water and Soil Resources (BWSR) biennially appropriates funding for a program called Watershed-Based Implementation Funding (WBIF). The WBIF funding is allocated to targeted watersheds to be distributed according to guidelines agreed upon by the eligible entities in the allocation area (“the Partnership”). The BWSR Board approved allocations for fiscal year 2022, including \$95,501 to the Shingle Creek allocation area and \$75,000 to the West Mississippi allocation area, which will become available July 1, 2022. A minimum 10% match is required.

The BWSR Funding Policy for the program specifies that each Partnership will include one decision-making representative from each watershed district and/or watershed management organization, soil and water conservation district, county with a current groundwater plan, and up to two decision-making representatives from municipalities within the allocation area. For these two allocation areas, that would include the respective commission, Hennepin County in its capacity as the county SWCD, and up to two cities. Other parties may participate in discussions regarding the use of the funding, but only the decision-making representatives may make the final recommendation to BWSR. The city and watershed representatives may be TAC members or Commissioners.

Staff recommends that at the February 10, 2022 TAC meeting the TAC and Commissions discuss which two persons the cities would like to represent them at the first official convene meeting to be held at the March 10, 2022 meeting, and who should represent each Commission. The county will also be asked to designate a representative, and BWSR will be formally represented as well. At that meeting the group will begin discussing options for the use of the funds.

Staff recommends that the TAC and Commissioners start thinking about their priorities and objectives for the funding. Activities eligible for funding span a very wide range of options, but all must be focused on prioritized and targeted cost-effective actions with *measurable water quality results*. Funding is not limited to capital projects; anything in the Third Generation Plan’s Implementation Plan may be eligible as long as its end goal is the protection and improvement of water quality. As a reminder, the Implementation Plan included several broad areas, including:

- Keeping the Rules and Standards up to date
- Maintaining a robust monitoring program
- Implementing an education and outreach program
- Implementing TMDL management actions
- Completing subwatershed assessments and follow-up implementation cost share
- Matching grants
- Maintaining an ongoing and periodically updated capital improvement program (CIP)

The Partnerships may choose to award the funds to one high-priority project or make numerous awards for varying objectives – for example dividing up the funds into an allocation for BMP cost share, a lake internal load or stream restoration feasibility study, a priority subwatershed assessment, targeted resident outreach, and one or more projects. Or you may decide to focus on one or two priority lakes and undertake a suite of activities focused on making a measurable improvement in water quality.

Tables 1 and 2 show the current CIPs for each Commission. You may add one or more projects to the CIP by Minor Plan Amendment for eligibility for the WBIF funding if that is approved prior to submitting a work plan.

Aside from designating the required representatives, the secondary purpose of this discussion is to provide some broad guidance and direction to the designees to consider during the Convene meeting. For example, the Commissions may want to make it known to the Partnership that their preference is to fund capital projects.

At the March Convene meeting the Partnerships will complete some procedural details and then discuss the desired objectives and outcomes from the use of the funding before diving into determining how fundable activities will be solicited and selected. Recommended activities approved by BWSR may then be detailed in a work plan starting approximately June 2022. Funding would be available July 1, 2022, following submittal and approval of the work plan.

From BWSR WBIF Convene Meeting guidance:

Recommended Convene Meeting Objectives:

1. Choose a decision-making process.
1. Decide how to select activities for funding. Note that partnerships may also want to choose funding targets for different categories (e.g., projects, studies, education).
2. Partnerships may select activities by:
  - Developing a list of potential activities from eligible plans,
  - Dividing funding among eligible entities in an equitable manner,
  - Selecting a few priority waterbodies (lake, streams) and/or groundwater areas to prioritize activities,
  - Using agreed upon criteria to select activities, or
  - Using a process approved by the BWSR Central Region Manager.
3. Select the highest priority, targeted, measurable, and eligible activities to be submitted to BWSR as a budget request.
2. Confirm which entity will serve as grantee and/or fiscal agent for each selected activity and decide on the source of the 10% required match.

**Table 1. Current Shingle Creek CIP, as amended 2021.**

CAPITAL IMPROVEMENT PROGRAM	2020	2021	2022	Comments
Cost Share Program	200,000	200,000	200,000	
Commission Contribution	100,000	100,000	100,000	
Local Contribution	100,000	100,000	100,000	
Partnership Cost-Share BMP Projects	100,000	100,000	100,000	
Commission Contribution	50,000	50,000	50,000	
Local Contribution	50,000	50,000	50,000	
Palmer Creek Estates Bass Creek Restoration		600,000		
Commission Contribution		600,000		
Local Contribution		0		
Channel Modification with SRP Filter Phase 2		125,000		
Commission Contribution		125,000		
Local Contribution		0		
Maple Grove Pond P57			648,000	Moved to future
Commission Contribution			162,000	
Local Contribution			486,000	
Maple Grove Pond P33			574,000	Moved to future
Commission Contribution			143,500	
Local Contribution			430,500	
Shingle Cr Brookdale Park Habitat Enhancement			150,000	Nothing pending
Commission Contribution			150,000	
Local Contribution			0	
Minneapolis Webber Park Stream Restoration			500,000	Nothing pending
Commission Contribution			500,000	
Local Contribution			0	
Minneapolis Flood Area 5 Water Quality Projects			6,000,000	Nothing pending
Commission Contribution			250,000	
Local Contribution			5,750,000	
Maple Grove Pond P55			855,000	Moved to future
Commission Contribution			213,800	
Local Contribution			641,200	
<b>TOTAL PROJECT COST</b>	<b>1,750,000</b>	<b>1,025,000</b>	<b>9,227,000</b>	
<b>TOTAL COMMISSION SHARE</b>	<b>1,325,000</b>	<b>875,000</b>	<b>1,769,300</b>	
<b>TOTAL CITY SHARE</b>	<b>425,000</b>	<b>150,000</b>	<b>7,457,700</b>	

Table 2. Current West Mississippi CIP, as amended 2021.

CAPITAL IMPROVEMENT PROGRAM	2020	2021	2022	Comments
Cost Share Program	100,000	100,000	100,000	
Commission Contribution	50,000	50,000	50,000	
Local Contribution	50,000	50,000	50,000	
River Park Stormwater Improvements	485,000			
Commission Contribution	121,250			
Local Contribution	363,750			
Miss Crossings Phase B Infiltration Vault	400,000			Moved per Todd
Commission Contribution	100,000			
Local Contribution	300,000			
Partnership Cost Share Program		100,000	100,000	
Commission Contribution		100,000	100,000	
Local Contribution				
Champlin Woods Trail Rain Gardens			180,000	Moved per Todd
Commission Contribution			45,000	
Local Contribution			135,000	
Wetland Restoration Project			250,000	Nothing pending
Commission Contribution			62,500	
Local Contribution			187,500	
<b>TOTAL PROJECT COST</b>	<b>985,000</b>	<b>200,000</b>	<b>630,000</b>	
<b>TOTAL COMMISSION SHARE</b>	<b>271,250</b>	<b>150,000</b>	<b>257,500</b>	
<b>TOTAL CITY SHARE</b>	<b>713,750</b>	<b>50,000</b>	<b>507,500</b>	

**To:** Shingle Creek/West Mississippi WMO Commissioners

**From:** Ed Matthiesen, P.E.  
Diane Spector

**Date:** February 4, 2022

**Subject:** January 2022 Staff Report

<b>Recommended Commission Action</b>
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For discussion and information.
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**General Updates**BWSR Grants

*Grant Closeouts.* Staff completed the final reporting for two BWSR grants that expired December 31, 2021: the Bass and Pomerleau Alum Treatments and the 2019 Watershed Based Implementation Funding (WBIF). The WBIF funding helped to cost share in four projects: Acquisitions and installation of a brining system at the Brooklyn Center Central Garage; an underground treatment system for an adjacent catchment area constructed opportunistically with the reconstruction of New Hope's Civic Center Park; the initial Meadow Lake drawdown; and Brooklyn Park's River Park Stormwater Improvements.

*Grant Follow-up.* Periodically BWSR prepares and features project writeups highlighting successful grant-funded projects. Staff, Andy Polzin, and Mitch Robinson were all interviewed recently for a writeup on the original Connections project, which also notes that it is one of a series of projects that ultimately is creating a 2.5 mile corridor of restored urban stream. When the final version is published, we will forward it on to you as well as post a link on the website and social media.

Future Projects

*Brooklyn Park.* On January 12 staff met with Mitch Robinson and Jesse Struve from the City of Brooklyn Park re: a potential future stream restoration project in Brookdale Park, downstream from the Connections I and Connections II projects. Because this potential project is mostly though a wide area of parkland, there is an opportunity to restore a more natural, meandering channel. (See attached Figure 1). City staff were interested in exploring this project, which would likely by 2-3 years out.

*Minneapolis.* January 13 met with Rachel Crabb and Adam Arvidson of the MPRB to talk about potential future joint projects. The Park Board anticipates making a number of improvements to the Creekview Park/Shingle Creek Park area between the Queen Avenue bridge and 49th Avenue over the next 2-4 years. While most of the improvements are within the upland park

area, there is a desire to incorporate some natural area improvements as well as some in-stream work. The MPRB is interested in exploring partnership options further. (See attachments) Because the MPRB is not a party to the Joint Powers Agreement, any improvements will likely have to be done as part of a three-party cooperative agreement between the Commission, MPRB, and City of Minneapolis. We are also in talks with the MPRB and City about the possibility of repurposing the iron-enhanced sand filter on the Humboldt Pond to divert streamflow into the pond for treatment and then release the treated water back into the creek.

## Project Updates

*Crystal Lake Management Plan.* Staff has met with WSB and requested a proposal for a second year of carp removal. We are also putting together the paperwork to reallocate grant funds from the alum treatment activity to the carp management activity.

*Bass and Pomerleau Lakes Management Plan.* See the separate item with the native vegetation restoration grant project. Staff has been in touch with MPCA staff regarding the process for removing the lakes from the Impaired Waters List. We are working with them on gathering the required data and narratives. The next assessment process will initiate in fall 2022 so this is perfect timing. The assessment team will look at not only average water quality over the past ten years, but also the corrective actions that have taken place in the lake and watershed. This will help them decide if the improved water quality is likely to be sustained into the future, or whether it is simply a short-term response.

*Meadow Lake Management Plan.* Project is looking good with good frost depth. No additional work is anticipated until spring.

*Connections II and Bass Creek Restoration Projects.* Construction is underway, starting with tree removals and creation of stabilized access points. Completion is expected by spring 2022. We will have some slides of work currently under way.

*SRP Extension Project.* This project is temporarily on hold as the City of Crystal continues to work with MAC to obtain permission to construct the project on MAC property.

Figure 1. 1947 and 2020 aerial photos of Brookdale Park in Brooklyn Park.



(Above) 1947 aerial. N/S road on the left side is Noble Avenue, N/S road on the right side is Xerxes Avenue. Note the extensive meandering but one segment has already been straightened.

(Below) 2020 aerial of same area. The ponds on the south side of the creek are approximately the original alignment of the creek.





**SHINGLE CREEK / WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION**  
**MONTHLY COMMUNICATION LOG**  
**January 2022**

Date	From	To	SC	WM	Description
1-3-2022	Jeff Habisch @ Sathre-Bergquist	Ed Matthiesen.	X		Project review requirements for a lot on Upper Twin Lake in Crystal
1-3-2022	Jim Prom (BLIA)	DNR, SCWMC	X		Questions about CLP management in Bass Lake
1-4-2022	Alan Catchpool @ Kimley-Horn	Ed M.		X	Project review needed for drive lane reconstruction at Maple Grove AMC.
1-4-2022	Ann Holter @ Brooklyn Center	Ed M.		X	Park planning workshop
1-4-22	Eric Alms, MPCA	Katie Kemmitt	X		Forwarded change order forms for Crystal Lake Mgmt Plan project
1-5-2022	Mike Kinning @ Kimley-Horn	Ed M.		X	Project schedule update for Xylon Ave Extension in Brooklyn Park
1-5-22	April Londo, Keegan Lund DNR	Katie K, Diane Spector, Nick Omodt	x		Meet with Jim P from Ball Lake Improvement Assoc to discuss future SAV mgmt. on Bass Lake
1-6-2022	Joe Maier @ BKBM	Diane S.	X		St. Therese project proposal in New Hope
1-6-2022	Jordan Van Der Hagen @ Damon Farber	Judie Anderson.	X	X	Biochar suppliers and project information for a project in Hopkins
1-11-2022	Kelly Besser @ Stone Brooke Engineering	Ed M.		X	Erosion control for Three River Park District North Mississippi Regional Trail Project
1-11-2022	Bob Weigert @ Paramount Engineering	Ed M.		X	Project BMP requirements for 8921 Wyoming Ave, Brooklyn Park
1-13-22	Anne Wessel, BWSR	Diane S	X		Request for interview to help her write a project overview of the Connections at Shingle Creek CWF grant project. Also referred to Mitch R and Andy P
1-14-22	BWSR	SC WMC	X		Clena Water Fund
1-18-22	SC WMC	BWSR	X		Semiannual reporting for various clean water fund grants
1-24-2022	Max Seitz @ Loucks	Ed M.		X	Prairie Care site improvements in Brooklyn Park
1-26-2022	Emily Castanias @ Sambatek	Ed M.	X		Nathan Lake Business Center project review questions in Plymouth
1-26-2022	Ann Ackerson @ New Hope	Ed M. Diane S.	X		New Hope Liberty Park water quality project proposal
1-27-22	Steve Christopher, BWSR	Diane S	X		Notice that can start putting together the workplan for the Palmer Creek Estates CWF grant
1-31-2022	Mark Ray @ Crystal	Todd Shoemaker.	X		Resident question about 5308 Perry house construction



## Bassett Creek Watershed Management

January 31, 2022

Mr. Mike Trojan  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St Paul, MN 55155

Dear Mr. Trojan:

The Bassett Creek Watershed Management Commission extends its appreciation and thanks to you and the MPCA for your work over the last two years to develop credits and guidance for Manufactured Treatment Devices (MTDs) in the MN Stormwater Manual. In response to a July 2019 letter from the BCWMC and five other watershed organizations, you and your team worked diligently to fulfill our request for statewide guidance on the use of MTDs, including putting together an advisory group and facilitating numerous meetings to collaboratively develop the useful guidance. We understand this project was a big undertaking and we appreciate your work and dedication.

This new guidance will streamline development reviews, provide consistency across jurisdictions, and provide succinct guidance to project proposers.

Thank you for your leadership and partnership on this effort!

Sincerely,

A handwritten signature in black ink that reads "Laura Jester".

Laura Jester  
Administrator

CC: Ryan Anderson, Minnesota Pollution Control Agency  
John Jaschke, Minnesota Board of Water and Soil Resources  
Randy Anhorn, Nine Mile Creek Watershed District  
Tina Carstens, Ramsey Washington Metro Watershed District  
Terry Jeffery, Riley Purgatory Bluff Creek Watershed District  
R. A. Polzin, Shingle Creek Watershed Management Organization  
Gerald E. Butcher, West Mississippi Watershed Management Organization