



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

July 2024 Board Packet

* * * * *

Agenda

* * * * *



Regular Board Meeting Agenda

Wednesday, July 10, 2024

6:30 PM

This month's meeting will be held at the District office (2665 Noel Drive, Little Canada, MN) but also via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in person OR via video and/or phone. The public will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. Instructions for joining in on the Zoom meeting can be found after the agenda.

1. Call to Order – 6:30 PM
2. **Approval of Agenda (pg. 3)**
3. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
 - A. Approval of Regular Meeting Minutes June 5, 2024 (pg. 7)
 - B. Treasurer's Report and Bill List (pg. 17)
 - C. Permit Program
 - i. 24-34 Rice Street Crossings, Shoreview (pg. 34)
 - D. Stewardship Grant Program
 - i. 24-40 CS 2024 Lake Phalen Aquatic Vegetation Harvesting (pg. 38)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
 - A. Applications
 - i. **24-35 Woodland Dr Retaining Wall Removal, Woodbury (pg. 40)**
 - ii. **24-36 Cottage Place Wetland Restoration, Shoreview (pg. 49)**
 - B. Enforcement Action Report (pg. 63)
6. Stewardship Grant Program
 - A. Applications – see consent agenda
 - B. Budget Adjustment Request- 24-16 CS Woodland Hills Church (pg. 67)
 - C. Budget Status Update (pg. 71)
7. Action Items
 - A. **Beltline Mississippi River Branch Outfall Replacement Bid Award (pg. 73)**
8. Attorney Report
9. Board Discussion Topics
10. New Reports and/or Presentations
 - A. South District (Non-Beltline) Flood Risk Resiliency Study Presentation – Jay Hawley, Barr Engineering (pg. 79)
 - B. Kohlman Lake Internal Load Management Scope Summary (no presentation) (pg. 91)
 - C. Watershed Management Plan Scope Summary (no presentation) (pg. 95)
11. Administrator's Report (pg. 106)
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. Staff Anniversaries
 - D. Board Action Log

- E. Minnesota Watersheds Updates
- F. 2025 Budget Planning Memo
- 12. Project and Program Status Reports (*pg. 115*)
 - Project Feasibility Studies*
 - A. Ames Lake Area Flood Risk Reduction Planning Study
 - B. Phalen Village Flood Risk Reduction
 - C. Resiliency Study for non-Beltline Tributary Areas
 - D. Owasso Basin/North Star Estates Improvements
 - E. Street Sweeping
 - F. Maplewood Mall 2024 Assessment
 - G. Payne-Phalen Natural Resources Inventory
 - H. Watershed Approach to Retrofit Projects
 - Project Operations*
 - I. Lake-Level Station Maintenance and Rain Gauge Installation
 - Capital Improvements*
 - J. Woodbury Target Store Stormwater Retrofit Project
 - K. Roosevelt Homes
 - L. Targeted Retrofit Projects 2024
 - M. Stewardship Grant Program
 - N. Pioneer Park Stormwater Reuse
 - O. Fish Creek Tributary Improvements
 - P. Cottage Place Wetland Restoration
 - Q. County Road C Culvert Project
 - R. Kohlman Creed Flood Risk Reduction Projects: Final Design
 - CIP Project Repair and Maintenance*
 - S. Routine CIP Inspection and Unplanned Maintenance Identification
 - T. 2024 CIP Maintenance and Repairs Projects
 - U. Beltline Mississippi Branch Outfall Replacement Project
 - Program Updates*
 - V. Natural Resources Program
 - W. Public Involvement and Education Program
 - X. Communications and Outreach Program
 - Y. Citizen Advisory Committee Program
- 13. Manager Comments and Next Month's Meeting
- 14. Adjourn



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

NOTICE OF BOARD MEETING

Wednesday, July 10, 2024

6:30 PM

Hybrid Meeting: In-Person and Web Conference

This month's meeting will be held at the District office (2665 Noel Drive, Little Canada, MN) AND via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in person or via Zoom. The public will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. Visitor comment may be given in person or via Zoom. Instructions for joining in on the Zoom meeting can be found below.

To access the meeting via webcast, please use this link: <https://us02web.zoom.us/j/83720162425?pwd=TLjLJtKbKncGy2OzyjerjA00iFbBbP.1>

The meeting room will open at 6:20 pm with the meeting starting at 6:30 pm. To connect to audio, you may choose to use your computer audio options or you may use your mobile device to call. The phone access number is **(312) 626-6799**. The Meeting ID is **837 2016 2425**. The meeting password is **887563**. If you have any questions, please contact Tina Carstens at tina.carstens@rwmwd.org.

* * * * *

Consent Agenda

* * * * *



**Ramsey-Washington Metro Watershed District
Minutes of Regular Board Meeting
June 5, 2024**

The Regular Meeting of June 5, 2024, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, and via Zoom web conferencing at 6:30 p.m. A video recording of the meeting can be found at <https://youtu.be/UaeK7TG3jIs>. Video time stamps included after each agenda item in minutes.

PRESENT:

Val Eisele, President
Ben Karp, Vice President
Mark Gernes, Secretary
Matt Kramer, Treasurer
Stephanie Wang, Manager

ABSENT:

ALSO PRESENT:

Tina Carstens, District Administrator
Nicole Maras, Permit Coordinator
Laurann Kirschner, Attorney for District
Patrick Williamson, Natural Resources Specialist
Ashlee Ricci, Grant Program Specialist
Jill Beckman Ray, Resident
Meredith Ver Steeg, City of St. Paul

Paige Ahlborg, Project Manager
Lyndsey Flaten, Water Monitoring Technician
Brad Lindaman, Barr Engineering
Keith Pilgrim, Barr Engineering
Mary Fitzgerald, District Inspector
Beth Watrud, Resident

1. CALL TO ORDER

The meeting was called to order by President Eisele at 6:30 p.m.

2. APPROVAL OF AGENDA (1:05)

Motion: Manager Kramer moved, Manager Karp seconded, to approve the agenda.

Motion carried unanimously.

3. CONSENT AGENDA (1:17)

- A. Approval of Minutes from May 1, 2024
- B. Treasurer's Report and Bill List
- C. Permit Program
 - i. 24-25 Habitat for Humanity Beebe Road, Maplewood
 - ii. 24-26 Ramsey County Keller Park Tui Lub Expansion, Maplewood
 - iii. 24-27 RWMWD Kohlman Creek/County Road C Culvert, Maplewood
 - iv. 24-28 Sunrise Over Gervais, Little Canada
 - v. 24-29 Woodland Hills Church Pavement Reduction, Maplewood
 - vi. 24-30 Doctor G Center, Maplewood
 - vii. 24-31 Highwood Hills Rec Center Athletic Fields, St. Paul
 - viii. 24-33 Delaware Place, North St. Paul
- D. Stewardship Grant Program

- i. 24-32 CS Applewood Pointe of Shoreview Phase 2
- E. Woodbury Target Store Targeted Retrofit Project – Change Order no. 2

Manager Karp requested to remove permit 24-26 Ramsey County Keller Park Tuj Lub Expansion from the consent agenda and move it to the permits program section.

Motion: Manager Gernes moved, Manager Karp seconded to approve the consent agenda as amended.

Motion carried unanimously.

4. VISITOR COMMENTS (4:12)

Beth Watrud provided comments on permit 24-28 Sunrise Over Gervais, Little Canada. Beth expressed concerns over nearby wetlands, habitat, pollution control into Lake Gervais as well as the safety concerns of having more homes in the area.

President Eisele stated he appreciated hearing Beth's concerns. President Eisele stated that the District does its best to ensure regulations are being met with minimal impact to water quality and stormwater management.

Beth Watrud questioned whether the new homes would have basements for severe weather concerns.

President Eisele stated that the plan the District reviews are about water management and runoff control.

Brad Lindaman explained that there are rules that state the lowest level must be above the 100-year flood plain of the area with a minimum of 2 feet between the 100-year flood plain and the lowest floor elevation. Brad explained that these are the types of things that are taken in to account when reviewing permits.

Jill Beckman Ray also commented on permit 24-28, Sunrise Over Gervais, stating that the new homes will be backing up to her property and expressed concerns regarding potential water issues on her property due to the development. Jill questioned who would be her point of contact if issues were to arise. Jill explained that the concerns she has with the wetland were addressed but she still had questions about the potential impacts on her home.

Laurann Kirschner explained that as long as the builders are compliant with the District's rules the enforcement would be a private matter between landowners. Laurann stated that district enforcement would solely rely on whether district rules were violated.

Nicole Maras stated that comments from Jill Beckman Ray were reviewed and communicated to Brandon Barnes throughout the permit review process. Nicole explained that issues were caught on an earlier design revision, which involved making sure there was no encroachment on the property to the south of the development.

Jill Beckman Ray expressed gratitude for the District taking her comments seriously through the permit review process and stated that she hopes it works out as planned.

Nicole Maras explained that if any concerns arise during construction to let the District know and stated that inspections would be happening throughout construction. Nicole explained some of the things that are done to make sure the elevations shown the plans are met during construction.

Jill Beckman Ray expressed further concerns over who would be responsible for the new water basin that will be installed.

Nicole Maras explained that an operation and maintenance plan with a signed maintenance agreement would be required to approve the permit. Nicole Maras stated that in some cases the City of Little Canada agrees to maintain the

basins and in other cases homeowners' associations take on maintenance of the basins. Nicole stated that in this case she believed a homeowner's association would be created for the four home.

Beth Watrud questioned if the amount of new hard surface from the proposed driveways had been looked in to.

Nicole Maras explained that impervious surfaces would be regulated by city ordinances.

5. PERMIT PROGRAM (16:48)

A. Applications

i. 24-26 Ramsey County Keller Park Tuj Lub Expansion, Maplewood

Nicole Maras provided background on the Tuj Lub expansion, noting that the original permit came through around ten years ago and now renovations are needed. Nicole explained some of the improvements that will be added with the expansion including adding artificial turf with a drainage system as well as infiltration basins for the small amount of hard surface proposed.

Manager Karp stated that as a member of the design team of this project he would be abstaining from voting and proposed a roll call vote be held.

Motion: Manager Kramer moved, Manager Wang seconded, to approve permit 24-26 Ramsey County Keller Park Tuj Lub Expansion, Maplewood. A roll call was performed.

Manager Karp – Abstained

Manager Gernes - Aye

Manager Kramer - Aye

Manager Wang - Aye

President Eisele – Aye

Motion approved.

ii. 24-32 Barge Terminal 1 Expansion, St. Paul

Nicole Maras explained that this permit applicant is requesting a variance for floodplain fill. Nicole provided details on the location of the project noting that the applicant and land owner is the St. Paul Port Authority. Nicole provided details on the project and stated that Army Corps of Engineers and DNR permits were triggered, noting that those permits were reviewed and approved. Nicole explained the District permit was triggered due to the work in the floodplain and the proposed rip rap fill. Nicole stated that the variance request is to fill the floodplain without provided compensatory storage with the reason being the modeling and calculations have demonstrated no increase in the 100-year flood level of the river. Nicole stated that modeling results and a FEMA No Rise certificate were received and explained that these were needed in the permit process. Nicole explained that the amount of fill is insignificant to the large floodplain.

President Eisele questioned if the modeling is revisited often or if there was a recertification from the 2013 and 2019 modeling time frames and asked if the assessment would need to be rerun.

Brad Lindaman explained that the existing model would be pulled and changes would be made as needed and explained the details of what is looked at when the model is rerun. Brad Lindaman confirmed that a no rise would have been shown in the modeling to receive the certification.

Manager Wang asked for more details on the calculations used.

Nicole Maras explained that results were requested for the amount of fill spread out across the floodplain to inform the rise in elevation, noting that none was shown.

Manager Karp asked if the District had run into the FEMA No Rise certificates in the past and wondered how it had been handled in those situations.

Nicole Maras explained that the area around the Mississippi River is a dynamic system and it is not uncommon to trigger permits for very small projects adjacent to the river due to entire properties being in the floodplain.

Brad Lindaman noted two or three similar situations in the past 10 years where the variance request was approved.

Motion: Manager Kramer moved, Manager Gernes seconded to approve permit 24-32 Barge Terminal 1 Expansion, St. Paul with the variance.

Motion carried unanimously.

B. Monthly Enforcement Report

Nicole Maras provided an overview of the monthly enforcement report.

Manager Gernes questioned if the release of sediment that was thought to come from water moving through the grate at the site for permit #22-33 Ramsey County WBA/Larpenteur – Maplewood, St. Paul, had been repaired so that additional rain would not result in the same situation.

Nicole Maras explained that one of the practices advocated for was diversion. Nicole stated part of the problem was runoff from undisturbed sections of pavement making its way to the low point and crossing over disturbed soil.

Mary Fitzgerald explained that it is a unique and complicated intersection due to the slope of all four roads. Mary explained that this makes it tricky if all of the water is flowing in the same direction. Mary stated that diversion has been implemented so that water upstream goes into the existing catch basins instead of traveling over the site. Mary provided an update on the large trench drain discussed in May, noting that half of the section had been removed from the area of road under construction to try and keep the clean road going into the trench drain and keeping the disturbed road out of it. Mary explained some other measure that have been taken to correct the issue. Mary provided some additional ideas that could be brought to the site for consideration.

6. STEWARDSHIP GRANT PROGRAM (31:26)

A. Applications – See consent agenda

B. Budget Status Update

President Eisele questioned if a green roof project was in any of the staff approved projects.

Paige Ahlborg stated that there are no current approvals for green roofs but noted that there may be some coming for discussion in the future.

Manager Wang commented that she would like maintenance of projects awarded grant dollars to be a priority to insure they remain in working order, noting that long term maintenance seems to be an obstacle.

Paige Ahlborg explained that maintenance is taken seriously, noting that annual inspections, maintenance newsletters and working with contractors are things being done to promote maintenance. Paige stated that it is also something that is discussed with grant recipients during the grant process.

Manager Wang suggested involving Water Stewards to help provide maintenance education.

Ashlee Ricci agreed that there are considerations to be taken for the future, noting that it could be involving Water Stewards, the Conservation Corps. or involving additional staff. Ashlee stated that she will be working with Lauren Hazenson to make sure the consistent communications on maintenance are going out.

President Eisele supported the involvement of the CAC for those looking for tips on maintenance and noted it is important to leverage the community.

7. ACTION ITEMS

A. District MS4 Stormwater Pollution Prevention Plan (38:41)

Nicole Maras explained that the MS4 is an annual requirement by the MPCA. Nicole explained that the District is regulated MS4, meaning that the District is owner and operator of a storm sewer system. Nicole stated that there are many different categories and requirements within those categories in which the District is required to complete and report on. Nicole explained there has not been an annual report submitted in the last few years due to the MPCA not having a completed form. Nicole stated data is continuously collected as if the reporting were still occurring. Nicole explained that since she was unsure of what the reports will entail, she included the District SWPPP application in the Board packet that outlines what the normal activities of the District are. Nicole stated that part of the process includes comments from the public as well as comments from the Board prior to submitting the annual report to the state. Nicole explained that noticing is typically done at the Board Meeting as well as posted on the District's website.

Manager Gernes asked if the State had ever commented on the District's Stormwater Pollution Prevention Program.

Nicole Maras explained that the District had been audited in the past. Nicole explained details how what can be looked in the audit, noting that the last one had happened over 15 years ago.

Tina Carstens explained that approval is a part of the SWPPP application process.

Nicole Maras noted that the current SWPPP is approved. Nicole explained that she meets with District programs responsible for the different minimum control measures to make sure tracking is happening, especially in a time of not reporting to make sure data collection and storage is not slipping for when reporting on previous years activities will need to happen. Nicole provided more information on each program's responsibilities.

President Eisele stated that since there were no public comments, no further action would be needed.

B. County Road C Culvert Flood Risk Reduction Project Bid Award (45:05)

Brad Lindaman provided an overview of the progress that has taken place on the County Road C culvert and reviewed the previous information discussed with the Board. Brad stated that six bids had been received and noted that they were all generally within the range of the engineer's estimate. Brad provided more information on the bid estimate and the bid amount from the lowest bidder. Brad stated the District had not previously worked with the lowest bidder, Bituminous Roadways Inc., as a general contractor on a project but they have worked as a sub-contractor on District projects in the past. Brad provided more information on Bituminous Roadways Inc. Brad stated that if the project is awarded to Bituminous Roadways Inc. the request submittals, notice of award, contract will be provided and the performance and payment bond, and certificate of insurance will be gathered and reviewed. Brad expected work to start in late June or early July with and end date in early September. Brad provided more details on the project and noted that it is connected to roadwork being done by the County.

President Eisele asked for more information on permit 24-27 RWMWD Kohlman Creek/County Rd. C Culvert, Maplewood and asked if that permit was connected to this project.

Nicole Maras explained that they are the same project. Noting that the District's projects sometimes trigger the District's rules requiring permitting.

President Eisele questioned if there is interaction with the DNR on the permit.

Nicole Maras stated that Barr staff had been consulting with the DNR due to Kohlman Creek being a public water as well as making sure there are no wetland restrictions.

Manager Gernes questioned if there is tracking done on which companies submit bids and whether or not they've been awarded bids previously.

Tina Carstens confirmed that this information is tracked.

Brad Lindaman stated that there are repeat companies seen but sometimes they are just not the low bidder.

President Eisele suggested also tracking how the final amounts of the projects compare to the bid amounts.

Motion: Manager Karp moved, Manager Kramer seconded moved to approve the bid for the County Road C Culvert Flood Risk Reduction Project to Bituminous Roadways Inc., direct staff to prepare the notice of award prepare the agreements and review the required submittals.

Motion carried unanimously.

C. 2023 District Annual Financial Audit (56:03)

Tina Carstens provided an overview of the 2023 District Annual Financial Audit.

Motion: Manger Gernes moved, Manager Karp seconded to approve the 2023 District Annual Financial Audit.

Motion carried unanimously.

D. Beltline Mississippi River Branch Outfall Replacement Accept Plans and Advertise for Bid (58:21)

Brad Lindaman provided details on the sink hole that occurred last summer and explained that this project would be the replacement of that section of the Beltline storm sewer, noting that it was about 50 feet from the river upstream. Brad explained that the project would entail replacement and removal of the pipe. Brad provided more details of designs that were reviewed for this project and provided details on the design chosen. Brad explained that the Beltline stormsewer discharges through a sheet pile wall at the river, which is under ownership of the St. Paul Port Authority and is used by barges. Brad explained that the wall also includes tie backs to hold it in place, noting that those tie backs will need to be taken into consideration during construction. Brad provided details on the engineers estimate and stated that this is an important piece of the Beltline storm sewer and a full replacement is needed in this section.

Manager Gernes noted that this location is very busy and wondered if there are any utilities would cause an issue during construction.

Brad Lindaman stated that the utilities that are known about are stated in the plans and explained that the contractor selected would have to do additional work to locate any unknown utilities.

President Eisele questioned if there is anything being put in place to reduce further failure outside of the pipe itself. President Eisele asked if the main problem is the age of the pipe or if the is something else going on.

Brad Lindaman stated that he believed that the age of the pipe is an issue and explained how the problem occurred in more detail.

Motion: Manger Gernes moved, Manager Karp seconded to approve the preliminary plans and outline specifications budget and scope of work and direct staff to finalize bidding documents and advertise the project for bid.

Motion carried unanimously.

E. Cottage Place Wetland Restoration Project Bid Award (1:13:01)

Paige Ahlborg provided details on the bids received, stating that out of the five bids that had been received Dimke Excavating came in with the lowest bid. Paige explained that this would be a new contractor to the District but not a new company, noting that they had good references and examples of work. Paige stated that the permit for this project would be seen at the July Board Meeting.

President Eisele questioned if the request Barr made to Dimke Excavating had been responded to.

Brad Lindaman stated that some of the information had been received and stated he felt that there was no reason for concern at this time.

Motion: Manager Wang moved, Manager Gernes seconded to approve the bid for Cottage Place Wetland Restoration project bid contingent upon Barr and District staff's satisfaction with the qualification evidence provided by the apparent lowest responsible and responsive bidder Dimke Excavating, award the project the project to Dimke Excavating at the bid price of \$314,197.25 and direct staff to request the required bonds and insurance information and execute the contract for the work.

Motion carried unanimously

8. ATTORNEY REPORT (1:15:38)

Laurann Kirschner provided information on the work the attorney's office has been doing including contract, insurance and bond reviews. Laurann stated that they will be working closely with Barr and District staff to make sure contract requirements are being met. Laurann provided and update on the Fish Creek appraisals for easements, noting that an appraiser has been found and they will be visiting the site the next few weeks.

9. BOARD DISCUSSION TOPICS (2:06:26)

No comments.

10. NEW REPORTS AND/OR PRESENTATIONS (1:17:30)

A. Managing Lake Internal Loads Presentation – Keith Pilgrim, Barr Eng.

Keith Pilgrim began his presentation by providing an overview, noting that he will be discussing Kohlman Lake as well as Wakefield Lake. Keith provided information on studies that have been completed within the District including sediment management analysis in 2018, internal load analysis in 2020, and cost benefit analysis for internal loading control options in 2022. Keith proceeded to discuss phosphorus fraction and gave details on how this can contribute to internal loading and detailed what was found in the lakes sampled, noting that there is a good dispersion of different compositions amongst the lakes in the District. Keith provided more details on the internal loading process and how they cause algae blooms, noting the difference in processes between iron bound phosphorus and organic phosphorus and how they enter the water column. Keith continued on to discuss the alum treatment that took place in Kohlman Lake, noting that the phosphorus levels are back up to pre-treatment levels. Keith explained how sediment cores were collected and the concentrations found within the sediment cores. Keith provided more details on iron bound phosphorus and how it interacts with aluminum. Keith explained that once aluminum gets it old transforms into other

molecules and no longer binds to phosphorus. Keith went on to give more detail of the graphs provided in the presentation, noting that the data shows that the alum treatment had run its course.

President Eisele questioned if residents were being engaged to help ensure organic phosphorus loading, such as grass clippings, are managed.

Tina Carstens explained that this is a part of the continual education program. Tina stated that upstream projects had also been completed to help address the external loading. Tina noted that many residents have worked with the District to implement natural shoreline and educating on external loading is ongoing.

Keith Pilgrim continued on the discuss internal loading found within Wakefield Lake, noting that it is a dynamic system. Keith continued to provide details on what the loading and flushing of Wakefield Lake looks like. Keith explained that Wakefield Lake contains a higher concentration of organic phosphorus in the lake bottom sediment. Keith continued on to explain that there is a strong relationship in all District lakes between the amount of iron and how much iron bound phosphorus is produced. Keith stated that due to this finding his hypothesis is that if you add more iron you can make more iron bound phosphorus. Keith provided some information on pumping more oxygen into the water column to make sure the iron bound phosphorus stays formed would be an option to look into. Keith gave more details on aeration and the challenges in shallow lakes. Keith highlighted oxygen saturation technology, a new method for adding oxygen to water and provided details on how that system works.

Manager Kramer left the meeting at 8:14 PM.

President Eisele asked for more information on how the oxygen saturation technology would work and questioned if it would reach deeper parts of lakes where more phosphorus was found in the sediment.

Keith Pilgrim explained that it would be designed to reach the deeper areas.

Manager Gernes questioned if the technology being discussed would need electricity.

Keith Pilgrim stated the electricity would be needed and explained more details on what would need to be worked out if this system were to be installed, noting that this is the beginning stages of discussion. Keith went on to provide more details on how the oxygen saturation technology system works and explained some of the pros and cons of the system. Keith noted there are a lot of things to consider when determining if this is the right approach. Keith stated that the experimental part of using this new technology would be the engineering piece as well as if it will practically work to oxygenate the sediments.

Manager Gernes questioned if there was information on how fish in Kohlman Lake and Wakefield Lake can affect the treatments.

Keith Pilgrim explained that carp can have an impact on how the aluminum migrates down. Keith stated that having fish doing some mixing could potentially be a good thing, but also noted that too much fish activity could cause faster migration.

President Eisele asked what next steps should be looked at given the recommendations.

Tina Carstens explained that the information was brought to the Board to keep in mind as budgeting for 2025 starts, as well as to find out if there was support for an alum treatment as well as support from the board to continue to review the options available.

Manager Karp expressed support for an alum treatment at Kohlman Lake and exploring the oxygen saturation technology system in Wakefield Lake.

Manager Gernes stated that the Kohlman alum treatment makes sense. Manager Gernes stated he had more questions on the oxygen saturation technology suggested for Wakefield Lake.

President Eisele stated that he was curious about other direct air technologies exist. President Eisele expressed support in further investigating the use of oxygen saturation technology.

Keith Pilgrim stated that there are other techniques that could be looked into to give more options.

Brad Lindaman stated that because the technology being discussed is a conceptual design a feasibility study would be completed to look at more of the details to see what it would actually take to get this system put into place.

The board discussed support of moving forward with budget planning for an alum treatment on Kohlman Lake in 2025 as well as a research project to explore the use of oxygen saturation in Wakefield Lake.

Barr Engineering will prepare scope summaries for those two projects for review by the board.

B. Tanners Lake, Battle Creek Lake, and McKnight Basin Outlet Operation Plans Scope Summary (informational item)

No comments.

11. ADMINISTRATOR'S REPORT (2:09:45)

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

Tina Carstens reviewed the upcoming meetings and dates.

C. Staff Anniversaries

No comments.

D. Board Action Log

No comments.

E. Minnesota Watersheds Updates

No comments.

F. Staff Organizational Chart

No comments.

12. PROJECT AND PROGRAM STATUS REPORTS (2:14:27)

Project Feasibility Studies

A. Ames Lake Area Flood Risk Reduction Planning Study

B. Phalen Village Flood Risk Reduction

C. Resiliency Study for Non-Beltline Tributary Areas

D. Owasso Basin/North Start Estates Improvements

E. Street Sweeping

F. Maplewood Mall 2024 Assessment

G. Payne-Phalen Natural Resources Inventory

H. Watershed Approach to Retrofit Projects

Project Operations

I. Lake-Level Station Maintenance and Rain Gauge Installation

Capital Improvements

J. Woodbury Target Store Stormwater Retrofit Project

K. Roosevelt Homes

L. Targeted Retrofit Projects 2024

M. Pioneer Park Stormwater Reuse

N. Fish Creek Tributary Improvements

O. Cottage Place Wetland Restoration

P. County Road C Culvert Project

Q. Kohlman Creek Flood Risk Reduction Projects: Final Design

CIP Project Repair and Maintenance

R. Routine CIP Inspection and Unplanned Maintenance Identification

S. 2024 CIP Maintenance and Repairs Project

T. Beltline Mississippi Branch Outfall Replacement Project

Program Updates

U. Natural Resources Program

V. Public Involvement and Education Program

W. Communications and Outreach Program

13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:24:09)

President Eisele asked if the CAC could be leveraged to help in targeted areas or specific projects and better utilize their knowledge.

Manager Karp suggested that he bring this question to the CAC at the next meeting for discussion.

Tina Carstens stated each year the CAC is leveraged in this way and has a plan for the rest of 2024. The board will have an opportunity to discuss the CACs 2025 work plan as the year progresses.

Manager Gernes communicated ideas for project engagement through the CAC.

14. ADJOURN

Motion: Manager Karp moved, Manager Gernes seconded, to adjourn the meeting at 9:00 p.m. Motion carried unanimously.

RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2024
6/30/2024

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per Diems	4355	\$7,000.00	-	-	-	\$7,000.00	0.00%
	Manager Expenses	4360	3,000.00	-	-	-	3,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	4,000.00	-	48.42	603.26	3,396.74	15.08%
	Sub-Total: Managers/Committees:		\$14,000.00	\$0.00	48.42	603.26	\$13,396.74	4.31%
Employees	Staff Salary/Taxes/Benefits	4010	2,000,000.00	-	157,390.74	899,356.22	1,100,643.78	44.97%
	Employee Expenses	4020	10,000.00	-	821.55	6,105.98	3,894.02	61.06%
	District Training & Education	4350	75,000.00	-	1,038.53	16,751.15	58,248.85	22.33%
	Sub-Total: Employees:		\$2,085,000.00	\$0.00	159,250.82	922,213.35	\$1,162,786.65	44.23%
Administration/ Office	Data Base/GIS Maintenance	4170	20,000.00	-	2,540.00	4,839.30	15,160.70	24.20%
	Office Equipment Maintenance	4305	2,000.00	-	-	-	2,000.00	0.00%
	Telephone	4310	2,000.00	-	260.76	1,316.21	683.79	65.81%
	Office Supplies	4320	7,000.00	-	582.37	2,579.62	4,420.38	36.85%
	Postage/Delivery	4330	2,000.00	-	-	690.08	1,309.92	34.50%
	Printing/Copying	4335	5,000.00	-	504.87	2,287.68	2,712.32	45.75%
	Dues & Publications	4338	17,000.00	-	275.00	13,395.00	3,605.00	78.79%
	Janitorial/Trash Service	4341	15,000.00	-	2,697.68	12,335.53	2,664.47	82.24%
	Utilities	4342	20,000.00	-	143.93	9,875.41	10,124.59	49.38%
	Building Maintenance	4343	100,000.00	-	1,614.36	13,828.99	86,171.01	13.83%
	Miscellaneous	4390	5,000.00	-	-	312.20	4,687.80	6.24%
	Insurance	4480	65,000.00	-	19,195.75	65,197.75	(197.75)	100.30%
	Office Equipment	4703	80,000.00	-	-	16,931.61	63,068.39	21.16%
	District Vehicles/Maintenance	4810-40	60,000.00	-	623.94	3,268.93	56,731.07	5.45%
	Metro INET	4325	100,000.00	-	9,165.48	50,083.18	49,916.82	50.08%
	Sub-Total: Administration/Office:		\$540,000.00	-	37,604.14	196,941.49	\$303,058.51	36.47%
Consultants/ Outside Services	Auditor/Accounting	4110	80,000.00	-	33,033.80	48,527.65	31,472.35	60.66%
	Engineering-Administration	4121	122,000.00	-	6,948.02	47,333.36	74,666.64	38.80%
	Engineering-Permit I&E	4122	10,000.00	-	270.00	3,164.16	6,835.84	31.64%
	Engineering-Review	4123	75,000.00	-	7,205.19	29,616.19	45,383.81	39.49%
	Engineering-Permit Application Review	4124	65,000.00	-	7,474.50	39,084.00	25,916.00	60.13%
	Project Feasibility Studies	4129	260,000.00	-	28,276.10	72,474.97	187,525.03	27.87%
	Attorney-Permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-General	4131	40,000.00	-	2,545.00	14,772.20	25,227.80	36.93%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		\$697,000.00	\$0.00	85,752.61	254,972.53	\$442,027.47	36.58%
Programs	WMP/Lakes/TMDLs/Grants	4661	154,500.00	-	447.50	15,311.00	139,189.00	9.91%
	Natural Resources Program	4670	120,000.00	-	36,006.75	47,577.46	72,422.54	39.65%
	Water Monitoring Program	4520-30	285,000.00	-	36,656.40	204,543.03	80,456.97	71.77%
	Outside Program Support	4683	57,000.00	-	-	14,869.33	42,130.67	26.09%
	Research Projects	4695	150,000.00	-	501.00	51,837.50	98,162.50	34.56%
	Project Operations	4650	150,000.00	-	5,840.85	47,742.84	102,257.16	31.83%
	Communication/Outreach/Events	4371	166,000.00	-	44,602.10	106,530.25	59,469.75	64.17%
	Health and Safety Program	4697	4,000.00	-	4,585.02	5,325.26	(1,325.26)	133.13%
	Sub-Total: Programs:		\$1,086,500.00	\$0.00	128,639.62	493,736.67	\$592,763.33	45.44%
GENERAL FUND TOTAL			\$4,382,500.00	\$0.00	411,295.61	1,868,467.30	2,514,032.70	42.63%
CIP's	Project Repair & Maintenance	516	2,125,000.00	-	74,431.79	477,588.71	1,647,411.29	22.47%
	Targeted Retrofit Projects	518	1,950,000.00	-	301,429.79	503,723.48	1,446,276.52	25.83%
	Flood Risk Reduction Fund	520	5,400,000.00	-	10,874.50	174,985.05	5,225,014.95	3.24%
	Debt Services-Beltline/Maplewood Mall	526	394,963.00	-	24,476.25	303,957.65	91,005.35	76.96%
	Stewardship Grant Fund	529	1,250,000.00	-	141,232.19	297,035.14	952,964.86	23.76%
	Fish Creek Tributary Improvements	537	1,375,000.00	-	10,919.00	36,013.00	1,338,987.00	2.62%
	Wetland Restoration Projects	540	700,000.00	-	-	-	700,000.00	0.00%
CIP BUDGET TOTAL			\$13,194,963.00	-	563,363.52	1,793,303.03	\$11,401,659.97	13.59%
TOTAL BUDGET			\$17,577,463.00	\$0.00	974,659.13	3,661,770.33	\$13,915,692.67	20.83%

Current Fund Balances:

Fund:	Unaudited Beginning Fund Balance @ 12/31/23	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @6/30/24
101 - General Fund	\$3,125,440.06	-	265,056.84	411,295.61	1,868,467.30	1,522,029.60
516 - Project Repair & Maintenance	872,232.70	-	782.52	74,431.79	477,588.71	395,426.51
518 - Targeted Retrofit Projects	476,410.31	-	71,824.32	301,429.79	503,723.48	44,511.15
520 - Flood Risk Reduction Fund	4,726,296.76	-	67,813.13	10,874.50	174,985.05	4,619,124.84
526 - Debt Services-Beltline/Maplewood Mall	407,575.04	-	-	24,476.25	303,957.65	103,617.39
529 - Stewardship Grant Fund	201,659.15	-	894.31	141,232.19	297,035.14	(94,481.68)
536 - Stormwater Impact Fund	1,336,819.50	-	84,053.00	-	-	1,420,872.50
537 - Fish Creek Tributary Improvements	121,092.62	-	223.58	10,919.00	36,013.00	85,303.20
540 - Wetland Restoration Projects	498,036.00	-	-	-	-	498,036.00
580 - Contingency Fund	1,215,487.00	-	-	-	-	1,215,487.00
Total District Fund Balance	\$12,981,049.14	\$0.00	\$ 490,647.70	\$ 974,659.13	\$3,661,770.33	\$9,809,926.51

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From June 1, 2024 to June 30, 2024

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	06/03/24	hea002	Jul-24	HealthPartners	Employee Benefits	\$13,421.75
EFT	06/01/24	met008	Jun-24	MetLife-Group Benefits	Employee Benefits	2,456.64
EFT	06/07/24	qwe001	Jun-24	CenturyLink	Project Operations	279.91
EFT	06/14/24	hom001	Jun-24	Home Depot Credit Services	Various	439.56
EFT	06/14/24	usb002	June 14, 2024	U.S. Bank	Various	8,179.36
74225V	06/05/24	chr001	20-04 MTN	Christ Episcopal Church	Stewardship Grant Program	(\$1,000.00)
74603V	06/05/24	stp011	21-02 MTN	St. Peter's School	Stewardship Grant Program	(187.36)
74616V	06/05/24	chi004	WF24	Chicks on Sticks	Communications/Outreach/Events	(150.00)
74663	06/12/24	aws001	S1335957-060124	AWS Service Center	Janitorial/Trash/Plowing/Sweeping	344.67
74664	06/12/24	azz001	ASIA3120	Azzone Security Investigation Agency	Communications/Outreach/Events	1,088.00
74665	06/12/24	car007	RWMWD_6_4_24	Carp Solutions, LLC	Natural Resources Program	34,680.00
74666	06/12/24	cen007	051424F; 050724K	Central Park Elementary School	Communications/Outreach/Events	720.00
74667	06/12/24	cit009	May 30, 2024	City of St. Paul	Communications/Outreach/Events	841.90
74668	06/12/24	deb001	WF24	Deborah DeBellis	Communications/Outreach/Events	110.00
74669	06/12/24	fir001	447990	First Student, Inc.	Communications/Outreach/Events	395.02
74670	06/12/24	gil001	246482	Gilbert Mechanical Contractors, Inc.	Building/Site Maintenance	1,020.59
74671	06/12/24	haw001	6775896	Hawkins, Inc.	Insurance	7,357.75
74672	06/12/24	hbff001	22-14 MTN	HB Fuller	Stewardship Grant Program	1,000.00
74673	06/12/24	hij001	1	Hijinks Stilts	Communications/Outreach/Events	250.00
74674	06/12/24	inn002	IN4555342	Innovative Office Solutions LLC	Janitorial/Trash/Plowing/Sweeping	664.27
74675	06/12/24	joh009	R515623	Johnson High School	Communications/Outreach/Events	259.00
74676	06/12/24	jui001	WF24	Juicebox, Inc.	Communications/Outreach/Events	70.00
74677	06/12/24	maw002	Summer Tour 2024	Minnesota Watersheds	Communications/Outreach/Events	1,445.62
74678	06/12/24	met012	2013; 2014; 1942	Metro-INET	Roseville IT Services/Web Site/Software/Licenses	9,211.09
74679	06/12/24	ncp001	June 1, 2024	NCBERS Group Life Ins.	Employee Benefits	16.00
74680	06/12/24	nor016	6/6/2024	Northland Trust Services, Inc.	Beltline & Battle Creek Tunnel Repair Debt Service	24,476.25
74681	06/12/24	pac001	Jun-24	Pace Analytical Services, Inc.	Water Monitoring Program	13,563.00
74682	06/12/24	pre003	310127833	Premium Waters, Inc.	Utilities/Building Services Contracts	34.00
74683	06/12/24	red002	150487586	Redpath & Company, LLC.	Accounting	32,852.10
74684	06/12/24	reh002	98263	Rehbein Transit, Inc.	Communications/Outreach/Events	1,264.24
74685	06/12/24	rmb001	M2400094	RMB Environmental Laboratories	Water Monitoring Program	4,437.30
74686	06/12/24	sai001	4610	Saint Paul Media	Communications/Outreach/Events	100.00
74687	06/12/24	usb005	530490580	US Bank Equipment Finance	Printing/Copier Lease	504.87
74688	06/12/24	was002	6531	Washington Conservation District	Stewardship Grant Program	836.00
74689	06/12/24	wea002	27922; 27923	Weaver Elementary School	Communications/Outreach/Events	340.00
74690	07/01/24	att002	287256653401x0625202	AT & T Mobility - ROC	Project Operations	163.34
74691	07/01/24	bar001	May 18 to Jun 17, 202	Barr Engineering	Various	163,564.60
74692	07/01/24	bur002	24-06	Tom Burns Consulting, LLC	District Data Base Project/GIS Maintenance	2,380.00
74693	07/01/24	cen005	00784251	Century College	Health & Safety Program	800.00
74694	07/01/24	cit021	24-03 CS	City of Shoreview	Stewardship Grant Program	4,802.00
74695	07/01/24	com004	June 16, 2024	Comcast	Utilities/Building Services Contracts	109.93
74696	07/01/24	dav003	9000051488	Davey Resource Group, Inc.	Stewardship Grant Program	11,560.00
74697	07/01/24	don003	24-20-CS	Jake Donahue	Stewardship Grant Program	5,000.00
74698	07/01/24	erd001	Jun-24	Paul Erdmann	Employee Benefits	80.00
74699	07/01/24	fit001	Progress Pmt #5	Fitzgerald Excavating & Trucking, Inc.	Construction Improvements/Project Maint & Rep	31,697.70
74700	07/01/24	fit002	Jun-24	Mary Fitzgerald	Employee Benefits, Expenses	830.20
74701	07/01/24	fit003	006	Emily F. Kamin	Employee Benefits, Expenses	761.90
74702	07/01/24	fle001	6/21	Flemings Auto Service	Vehicle Fuel	144.58
74703	07/01/24	gal001	June 27, 2024	Galowitz Olson, PLLC	Attorney-General	2,545.00
74704	07/01/24	gil001	246675	Gilbert Mechanical Contractors, Inc.	Building/Site Maintenance	545.77
74705	07/01/24	gov001	24-RWMWD	Governance Sciences Group, Inc.	Communications/Outreach/Events	19,900.00
74706	07/01/24	gra005	9162682372	Grainger	Natural Resources Program	146.89
74707	07/01/24	hea005	241009	Health Counseling Services, LLC.	Health & Safety Program	2,050.00
74708	07/01/24	hen003	Jun-24	Emma Henry	Employee Expenses	67.54
74709	07/01/24	int001	W23120479;24050540	Office of MN, IT Services	Telephone	118.76
74710	07/01/24	klo001	May-June 2024	Kendra L. Kloth	Employee Expenses	35.65
74711	07/01/24	kub001	Jun-24	Kyle W. Kubitza	Employee Benefits, Expenses	114.24
74712	07/01/24	kur001	Progress Pmt #2	Kurilla Contracting Company	Construction Improvements/Targeted Retrofit Proj.	145,107.75
74713	07/01/24	lan003	Deposit for Recog. D	Lancer Catering	Communications/Outreach/Events	750.00
74714	07/01/24	lan009	2578	Landbridge Ecological, Inc.	Construction Improvements/Project Maint & Rep	3,025.00
74715	07/01/24	lea001	6/18/2024	League of MN Cities Ins. Trust WC	Insurance	11,838.00
74716	07/01/24	lea003	16-1006	L. Tracy Leavenworth	Communications/Outreach/Events	8,364.01
74717	07/01/24	mbc001	1192	MBohn Consulting, LLC.	Communications/Outreach/Events	5,000.00
74718	07/01/24	mel001	May/June 2024	Michelle L. Melser	Employee Benefits, Expenses	97.45
74719	07/01/24	mey001	Jun-24	Sommer Meyer	Employee Expenses	30.49
74720	07/01/24	odl001	20-07-MTN 2024	Kristy Odland	Stewardship Grant Program	1,000.00
74721	07/01/24	owa002	20-39	3585 Owasso Street, LLC.	Escrow Refunds	8,650.00
74722	07/01/24	pac001	Jun 24	Pace Analytical Services, Inc.	Water Monitoring Program	13,151.00
74723	07/01/24	pas002	May/June 2024	Carol Passi	Employee Benefits, Expenses	154.36
74724	07/01/24	pet001	Pay App. #1	Peterson Companies, Inc.	Construction Improvements/Targeted Retrofit Proj.	104,512.09
74725	07/01/24	ram002	Environmental Health	Ramsey County	Janitorial/Trash/Plowing/Sweeping	230.55
74726	07/01/24	ras001	24-02-CS	Erik Rasmussen	Stewardship Grant Program	1,800.00
74727	07/01/24	red004	2474	Red Rock Fire	Construction Improvements/Project Maint & Rep	6,310.21
74728	07/01/24	ric005	Jun-24	Ashlee M. Ricci	Employee Benefits, Expenses	216.75
74729	07/01/24	roc001	3112	Rock Leaf Water Environmental LLC	Construction Improvements/Project Maint & Rep	3,956.69
74730	07/01/24	sod001	June 2024	Nicole Maras	Employee Benefits, Expenses	103.65

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From June 1, 2024 to June 30, 2024

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
47431	07/01/24	stu001	2019912	Studio Lola	Employee Benefits	1,067.50
74732	07/01/24	til002	May-2024	Joseph S. Tillotson	Employee Benefits, Expenses	192.82
74733	07/01/24	tra005	23-51 CS	Paul and Mary Tragiai	Stewardship Grant Program	15,000.00
74734	07/01/24	voy001	8692934232426	US Bank Voyager Fleet Sys.	Vehicle Fuel	479.36
74735	07/01/24	was002	6552	Washington Conservation District	Stewardship Grant Program	1,568.00
74736	07/01/24	wil007	Jun-24	Patrick D. Williamson	Employee Benefits, Expenses	264.84
74737	07/01/24	sho004	4/29/11	Shoreline Landscaping	Stewardship Grant Program	101,744.00
Total						<u><u>\$843,354.15</u></u>
EFT	06/07/24	myp001	05/10/24	June 7th Payroll	4110-101-000	90.85
EFT	06/21/24	myp001	05/24/24	June 21st Payroll	4110-101-000	90.85
Dir.Dep.	06/07/24	---	Payroll Expense-Net	June 7th Payroll	4010-101-000	39,667.10
EFT	06/07/24	int002	Internal Rev.Serv.	June 7th Federal Withholding	2001-101-000	13,991.50
EFT	06/07/24	mnd001	MN Revenue	June 7th State Withholding	2003-101-000	2,372.89
EFT	06/07/24	per001	PERA	June 7th PERA	2011-101-000	7,201.31
EFT	06/07/24	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,948.00
EFT	06/07/24	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	1,879.00
Dir.Dep.	06/21/24	---	Payroll Expense-Net	June 21st Payroll	4010-101-000	39,702.49
EFT	06/21/24	int002	Internal Rev.Serv.	June 21st Federal Withholding	2001-101-000	13,910.46
EFT	06/21/24	mnd001	MN Revenue	June 21st State Withholding	2003-101-000	2,335.94
EFT	06/21/24	per001	PERA	June 21st PERA	2011-101-000	7,201.31
EFT	06/21/24	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	2,043.00
EFT	06/21/24	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	1,879.00
Payroll/Benefits:						<u><u>\$134,313.70</u></u>
Total						<u><u>Accounts Payable/Payroll/Benefits:</u></u>
						<u><u>\$977,667.85</u></u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From June 1, 2024 to June 30, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
06/03/24	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits	\$13,421.75	
06/01/24	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits	2,456.64	
06/07/24	EFT	qwe001	CenturyLink	4650-101-000	Project Operations	279.91	
06/14/24	EFT	hom001	Home Depot Credit Services			439.56	
				4530-101-000	Water Monitoring Program		108.60
				4670-101-000	Natural Resources Program		330.96
06/14/24	EFT	usb002	U.S. Bank			8,179.36	
				4371-101-000	Communications/Outreach/Events		16.79
				4371-101-000	Communications/Outreach/Events		170.87
				4365-101-000	Committee/Board Meeting Expenses		48.42
				4320-101-000	Office Supplies		98.59
				4320-101-000	Office Supplies		73.23
				4320-101-000	Office Supplies		60.00
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses		96.39
				4371-101-000	Communications/Outreach/Events		(607.87)
				4530-101-000	Water Quality Monitoring Program		443.00
				4670-101-000	Natural Resources Program		722.57
				4371-101-000	Communications/Outreach/Events		29.99
				4320-101-000	Office Supplies		52.60
				4320-101-000	Office Supplies		25.38
				4371-101-000	Communications/Outreach/Events		156.00
				4371-101-000	Communications/Outreach/Events		767.03
				4350-101-000	Training & Education		620.00
				4170-101-000	District Data/GIS Maintenance		160.00
				4371-101-000	Communications/Outreach/Events		29.99
				4371-101-000	Communications/Outreach/Events		27.82
				4341-101-000	Janitorial/Trash/Plowing/Sweeping		14.96
				4320-101-000	Office Supplies		30.41
				4341-101-000	Janitorial/Trash/Plowing/Sweeping		67.94
				4371-101-000	Communications/Outreach/Events		60.52
				4320-101-000	Office Supplies		16.51
				4371-101-000	Communications/Outreach/Events		23.48
				4320-101-000	Office Supplies		135.63
				4341-101-000	Janitorial/Trash/Plowing/Sweeping		7.99
				4371-101-000	Communications/Outreach/Events		23.88
				4670-101-000	Natural Resources Program		10.22
				4371-101-000	Communications/Outreach/Events		14.99
				4371-101-000	Communications/Outreach/Events		75.11
				4320-101-000	Office Supplies		9.48
				4371-101-000	Communications/Outreach/Events		18.89
				4670-101-000	Natural Resources Program		94.45
				4320-101-000	Office Supplies		7.93
				4371-101-000	Communications/Outreach/Events		132.35
				4320-101-000	Office Supplies		50.00
				4371-101-000	Communications/Outreach/Events		2,600.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From June 1, 2024 to June 30, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
				4371-101-000	Communications/Outreach/Events	37.16
				4338-101-000	Dues & Publications	275.00
				4350-101-000	Training & Education	339.34
				4350-101-000	Training & Education	31.19
				4371-101-000	Communications/Outreach/Events	48.00
				4697-101-000	Health and Safety Program	799.02
				4371-101-000	Communications/Outreach/Events	136.37
				4371-101-000	Communications/Outreach/Events	17.28
				4320-101-000	Office Supplies	14.49
				4320-101-000	Office Supplies	8.12
				4371-101-000	Communications/Outreach/Events	87.85
06/05/24	74225V	chr001	Christ Episcopal Church	4682-529-000	Stewardship Grant Program	(1,000.00)
06/05/24	74603V	stp011	St. Peter's School	4682-529-000	Stewardship Grant Program	(187.36)
06/05/24	74616V	chi004	Chicks on Sticks	4371-101-000	Communications/Outreach/Events	(150.00)
06/12/24	74663	aws001	AWS Service Center	4341-101-000	Janitorial/Trash/Plowing/Sweeping	344.67
06/12/24	74664	azz001	Azzone Security Investigation Agency	4371-101-000	Communications/Outreach/Events	1,088.00
06/12/24	74665	car007	Carp Solutions, LLC	4670-101-000	Natural Resources Program	34,680.00
06/12/24	74666	cen007	Central Park Elementary School	4371-101-000	Communications/Outreach/Events	720.00
06/12/24	74667	cit009	City of St. Paul	4371-101-000	Communications/Outreach/Events	841.90
06/12/24	74668	deb001	Deborah DeBellis	4371-101-000	Communications/Outreach/Events	110.00
06/12/24	74669	fir001	First Student, Inc.	4371-101-000	Communications/Outreach/Events	395.02
06/12/24	74670	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Building/Site Maintenance	1,020.59
06/12/24	74671	haw001	Hawkins, Inc.	4480-101-000	Insurance	7,357.75
06/12/24	74672	hbf001	HB Fuller	4682-529-000	Stewardship Grant Program	1,000.00
06/12/24	74673	hij001	Hijinks Stilts	4371-101-000	Communications/Outreach/Events	250.00
06/12/24	74674	inn002	Innovative Office Solutions LLC	4341-101-000	Janitorial/Trash/Plowing/Sweeping	664.27
06/12/24	74675	joh009	Johnson High School	4371-101-000	Communications/Outreach/Events	259.00
06/12/24	74676	jui001	Juicebox, Inc.	4371-101-000	Communications/Outreach/Events	70.00
06/12/24	74677	maw002	Minnesota Watersheds	4371-101-000	Communications/Outreach/Events	1,445.62
06/12/24	74678	met012	Metro-INET			9,211.09
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses	9,069.09
				4310-101-000	Telephone	142.00
06/12/24	74679	ncp001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits	16.00
06/12/24	74680	nor016	Northland Trust Services, Inc.	4708-526-000	Beltline & Battle Creek Tunnel Repair Debt Service	24,476.25
06/12/24	74681	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Monitoring Program	13,563.00
06/12/24	74682	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Services Contracts	34.00
06/12/24	74683	red002	Redpath & Company, LLC.	4110-101-000	Accounting	32,852.10
06/12/24	74684	reh002	Rehbein Transit, Inc.	4371-101-000	Communications/Outreach/Events	1,264.24
06/12/24	74685	rmb001	RMB Environmental Laboratories	4530-101-000	Water Monitoring Program	4,437.30
06/12/24	74686	sai001	Saint Paul Media	4371-101-000	Communications/Outreach/Events	100.00
06/12/24	74687	usb005	US Bank Equipment Finance	4335-101-000	Printing/Copier Lease	504.87
06/12/24	74688	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	836.00
06/12/24	74689	wea002	Weaver Elementary School	4371-101-000	Communications/Outreach/Events	340.00
07/01/24	74690	att002	AT & T Mobility - ROC	4650-101-000	Project Operations	163.34

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From June 1, 2024 to June 30, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
07/01/24	74691	bar001	Barr Engineering			163,564.60
				4121-101-000	Engineering Admin	6,948.02
				4697-101-000	Health & Safety Program (Training)	936.00
				4123-101-000	Engineering Review	7,205.19
				4128-520-000	Engineering -Flood Damage	1,275.00
				4129-101-000	Project Feasability	3,767.50
				4129-101-000	Project Feasability	1,184.00
				4129-101-000	Project Feasability	1,671.00
				4129-101-000	Project Feasability	377.00
				4129-101-000	Project Feasability	133.00
				4129-101-000	Project Feasability	21,143.60
				4520-101-000	WQM-Engineering	235.00
				4520-101-000	WQM-Engineering	895.00
				4520-101-000	WQM-Engineering	3,715.00
				4520-101-000	WQM-Engineering	108.50
				4122-101-000	Permit Application I & E	270.00
				4124-101-000	Eng. Permit Review	7,474.50
				4661-101-000	SLMP/TMDL Studies	447.50
				4695-101-000	Research Projects	52.00
				4695-101-000	Research Projects	215.00
				4695-101-000	Research Projects	234.00
				4650-101-000	Project Operations	2,854.60
				4650-101-000	Project Operations	2,543.00
				4128-518-000	Engineering -Targeted Retrofit	36,511.48
				4128-518-000	Engineering -Targeted Retrofit	2,292.97
				4128-518-000	Engineering -Targeted Retrofit	4,648.00
				4682-529-000	Stewardship Grant Program	3,515.80
				4128-520-000	Engineering -Flood Damage	52.00
				4128-518-000	Engineering -Targeted Retrofit	2,390.00
				4129-537-000	Driveway Fish Creek Tributary	10,919.00
				4128-518-000	Engineering -Targeted Retrofit	5,967.50
				4128-520-000	Engineering -Flood Damage	4,157.50
				4128-520-000	Engineering -Flood Damage	5,390.00
				4128-516-000	Eng. Projects-Maint & Repair	2,933.74
				4128-516-000	Eng. Projects-Maint & Repair	4,799.70
				4128-516-000	Eng. Projects-Maint & Repair	16,302.50
07/01/24	74692	bur002	Tom Burns Consulting, LLC	4171-101-000	District Data Base Project/GIS Maintenance	2,380.00
07/01/24	74693	cen005	Century College	4697-101-000	Health & Safety Program	800.00
07/01/24	74694	cit021	City of Shoreview	4682-529-000	Stewardship Grant Program	4,802.00
07/01/24	74695	com004	Comcast	4342-101-000	Utilities/Building Services Contracts	109.93
07/01/24	74696	dav003	Davey Resource Group, Inc.			11,560.00
				4682-529-000	Stewardship Grant Program	6,153.75
				4630-516-000	Construction Improvements/Project Maint & Rep	5,406.25
07/01/24	74697	don003	Jake Donahue	4682-529-000	Stewardship Grant Program	5,000.00
07/01/24	74698	erd001	Paul Erdmann	4040-101-000	Employee Benefits	80.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From June 1, 2024 to June 30, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
07/01/24	74699	fit001	Fitzgerald Excavating & Trucking, Inc.	4630-516-000	Construction Improvements/Project Maint & Rep	31,697.70
07/01/24	74700	fit002	Mary Fitzgerald			830.20
				4040-101-000	Employee Benefits	56.83
				4020-101-000	Employee Expenses	81.07
				4341-101-000	Janitorial/Trash/Plowing/Sweeping	692.30
07/01/24	74701	fit003	Emily F. Kamin			761.90
				4040-101-000	Employee Benefits	40.00
				4020-101-000	Employee Expenses	46.90
				4341-101-000	Janitorial/Trash/Plowing/Sweeping	675.00
07/01/24	74702	fle001	Flemings Auto Service	4830-101-000	Vehicle Fuel	144.58
07/01/24	74703	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney-General	2,545.00
07/01/24	74704	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Building/Site Maintenance	545.77
07/01/24	74705	gov001	Governance Sciences Group, Inc.	4371-101-000	Communications/Outreach/Events	19,900.00
07/01/24	74706	gra005	Grainger	4670-101-000	Natural Resources Program	146.89
07/01/24	74707	hea005	Health Counseling Services, LLC	4697-101-000	Health & Safety Program	2,050.00
07/01/24	74708	hen003	Emma Henry	4020-101-000	Employee Expenses	67.54
07/01/24	74709	int001	Office of MN, IT Services	4310-101-000	Telephone	118.76
07/01/24	74710	klo001	Kendra Kloth	4020-101-000	Employee Expenses	35.65
07/01/24	74711	kub001	Kyle Kubitza			114.24
				4040-101-000	Employee Benefits	40.00
				4020-101-000	Employee Expenses	74.24
07/01/24	74712	kur001	Kurilla Contracting Company	4630-518-000	Construction Improvements/Targeted Retrofit Proj.	145,107.75
07/01/24	74713	lan003	Lancer Catering	4371-101-000	Communications/Outreach/Events	750.00
07/01/24	74714	lan009	Landbridge Ecological, Inc.	4630-516-000	Construction Improvements/Project Maint & Rep	3,025.00
07/01/24	74715	lea001	League of MN Cities Ins. Trust WC	4480-101-000	Insurance	11,838.00
07/01/24	74716	lea003	L. Tracy Leavenworth	4371-101-000	Communications/Outreach/Events	8,364.01
07/01/24	74717	mbc001	MBohn Consulting, LLC.	4371-101-000	Communications/Outreach/Events	5,000.00
07/01/24	74718	mel001	Michelle L. Melser			97.45
				4020-101-000	Employee Expenses	49.45
				4343-101-000	Building/Site Maintenance	48.00
07/01/24	74719	mey001	Sommer Meyer	4020-101-000	Employee Expenses	30.49
07/01/24	74720	odl001	Kristy Odland	4682-529-000	Stewardship Grant Program	1,000.00
07/01/24	74721	owa002	3585 Owasso Street, LLC.	2024-101-000	Escrow Refunds	8,650.00
07/01/24	74722	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Monitoring Program	13,151.00
07/01/24	74723	pas002	Carol Passi			154.36
				4040-101-000	Employee Benefits	12.02
				4020-101-000	Employee Expenses	106.53
				4371-101-000	Communications/Outreach/Events	35.81
07/01/24	74724	pet001	Peterson Companies, Inc.	4630-518-000	Construction Improvements/Targeted Retrofit Proj.	104,512.09
07/01/24	74725	ram002	Ramsey County	4341-101-000	Janitorial/Trash/Plowing/Sweeping	230.55
07/01/24	74726	ras001	Erik Rasmussen	4682-529-000	Stewardship Grant Program	1,800.00
07/01/24	74727	red004	Red Rock Fire	4630-516-000	Construction Improvements/Project Maint & Rep	6,310.21
07/01/24	74728	ric005	Ashlee M. Ricci			216.75
				4040-101-000	Employee Benefits	80.00
				4020-101-000	Employee Expenses	136.75

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From June 1, 2024 to June 30, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
07/01/24	74729	roc001	Rock Leaf Water Environmental LLC	4630-516-000	Construction Improvements/Project Maint & Rep	3,956.69	
07/01/24	74730	sod001	Nicole Maras			103.65	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expenses		63.65
07/01/24	74731	stu001	Studio Lola	4040-101-000	Employee Benefits	1,067.50	
07/01/24	74732	til002	Joseph S. Tillotson			192.82	
				4040-101-000	Employee Benefits		170.04
				4020-101-000	Employee Expenses		22.78
07/01/24	74733	tra005	Paul and Mary Tragiai	4682-529-000	Stewardship Grant Program	15,000.00	
07/01/24	74734	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel	479.36	
07/01/24	74735	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	1,568.00	
07/01/24	74736	wil007	Patrick D. Williamson			264.84	
				4040-101-000	Employee Benefits		136.68
				4020-101-000	Employee Expenses		106.50
				4670-101-000	Natural Resources Program		21.66
07/01/24	74737	sho004	Shoreline Landscaping	4682-529-000	Stewardship Grant Program	101,744.00	
Total						\$843,354.15	
06/07/24	EFT	myp001	June 7th Payroll	4110-101-000	June 7th Payroll	90.85	
06/21/24	EFT	myp001	June 21st Payroll	4110-101-000	June 21st Payroll	90.85	
06/07/24	Dir.Dep.	---	June 7th Payroll	4010-101-000	June 7th Payroll	39,667.10	
06/07/24	EFT	int002	June 7th Federal Withholding	2001-101-000	June 7th Federal Withholding	13,991.50	
06/07/24	EFT	mnd001	June 7th State Withholding	2003-101-000	June 7th State Withholding	2,372.89	
06/07/24	EFT	per001	June 7th PERA	2011-101-000	June 7th PERA	7,201.31	
06/07/24	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,948.00	
06/07/24	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	1,879.00	
06/21/24	Dir.Dep.	---	June 21st Payroll	4010-101-000	June 21st Payroll	39,702.49	
06/21/24	EFT	int002	June 21st Federal Withholding	2001-101-000	June 21st Federal Withholding	13,910.46	
06/21/24	EFT	mnd001	June 21st State Withholding	2003-101-000	June 21st State Withholding	2,335.94	
06/21/24	EFT	per001	June 21st PERA	2011-101-000	June 21st PERA	7,201.31	
06/21/24	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	2,043.00	
06/21/24	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	1,879.00	
Payroll/Benefits:						\$134,313.70	
Total						\$977,667.85	
Accounts Payable/Payroll/Benefits:							



Summary of Professional Engineering Services During the Period
May 18 through June 21, 2024

	Total Engineering Budget (2024)	Total Fees to Date (2024)	Budget Balance (2024)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$92,000.00	\$47,333.36	\$44,666.64	\$6,948.02	4121-101	DW-13
RWMWD Health and Safety/ERTK Program (Training)	\$2,000.00	\$936.00	\$1,064.00	\$936.00	4697-101	DW-13
RWMWD Health and Safety Manual Update	\$5,000.00	\$4,603.50	\$396.50	\$0.00	4350-101	DW-13
Education Assistance	\$30,000.00	\$605.00	\$29,395.00	\$0.00	4129-101	DW-13
Engineering Review						
Engineering Review	\$75,000.00	\$29,616.19	\$45,383.81	\$7,205.19	4123-101	DW-13
Project Feasibility Studies						
Resiliency Study for non-Beltline tributary areas (pre-planning study and evaluation of existing data)	\$45,000.00	\$58,476.50	-\$13,476.50	\$1,275.00	4128-520	DW-9
Kohlman Creek Flood Damage Reduction Feasibility Study	\$5,000.00	\$3,520.00	\$1,480.00	\$0.00	4129-101	DW-9, KC-2
Owasso Basin/North Star Estates Improvements Feasibility Study	\$10,000.00	\$6,040.00	\$3,960.00	\$0.00	4129-101	GC-3
Phalen Village Improvements	\$10,000.00	\$13,217.65	-\$3,217.65	\$3,767.50	4129-101	DW-9
Evaluate compliance with South Metro Mississippi River TSS TMDL	\$20,000.00	\$70.00	\$19,930.00	\$0.00	4129-101	MR-2
Street Sweeping	\$20,000.00	\$9,790.50	\$10,209.50	\$1,184.00	4129-101	DW-6, DW-15
Retrofit Inventory	\$60,000.00	\$18,850.72	\$41,149.28	\$1,671.00	4129-101	DW-17, DW-20
Tanners, Battle Creek Lake, McKnight Basin outlet operation plan	\$35,000.00	\$667.00	\$34,333.00	\$377.00	4129-101	DW-9
Ames Lake Feasibility Study	\$5,000.00	\$881.00	\$4,119.00	\$133.00	4129-101	DW-9, BELT-1
Interim Emergency Response Plans	\$5,000.00	\$585.00	\$4,415.00	\$0.00	4129-101	DW-9
Maplewood Mall 2024 Assessment	\$20,000.00	\$24,694.10	-\$4,694.10	\$21,143.60	4129-101	DW-5, DW-12
Resiliency Study for non-Beltline tributary areas - feasibility studies placeholder	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4129-101	DW-9
Contingency*	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$269.50	\$9,730.50	\$235.00	4520-101	DW-2
Annual WQ Report Assistance	\$20,000.00	\$15,846.50	\$4,153.50	\$895.00	4520-101	DW-2
Special Project BMP Monitoring	\$30,000.00	\$6,097.00	\$23,903.00	\$3,715.00	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	\$15,000.00	\$5,078.38	\$9,921.62	\$108.50	4520-101	DW-5, DW-8
Battle Creek Monitoring to address TMDL	\$15,000.00	\$2,615.00	\$12,385.00	\$0.00	4520-101	DW-1, DW-2
Battle Creek Monitoring to address TMDL (Barr Staff doing the monitoring)	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4520-101	DW-1, DW-2
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$3,164.16	\$6,835.84	\$270.00	4122-101	DW-7
Permit Application Review	\$65,000.00	\$39,084.00	\$25,916.00	\$7,474.50	4124-101	DW-7
Watershed Management Plan Update						
Stakeholder Engagement	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4661-101	DW-21
Gaps Analysis/WMP Update Scoping	\$10,000.00	\$1,825.00	\$8,175.00	\$447.50	4661-101	DW-13, DW-20
Ecosystem Restoration Plan (or "Ecosystem Health Action Plan")	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4661-101	DW-8, DW-14
Lake Studies/TMDL Reports						
West Vadnais Lake Incorporation	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4661-101	DW-2
2024 Grant Applications	\$20,000.00	\$13,486.00	\$6,514.00	\$0.00	4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4661-101	DW-20
Carver Ponds Internal Load Reduction	\$12,000.00	\$0.00	\$12,000.00	\$0.00	4661-101	DW-12
Contingency for Lake Studies	\$22,500.00	\$0.00	\$22,500.00	\$0.00	4661-101	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$15,000.00	\$11,504.50	\$3,495.50	\$52.00	4695-101	DW-12
Kohlman Lake Aquatic Plant Management Effects Study	\$20,000.00	\$34,652.50	-\$14,652.50	\$215.00	4695-101	DW-12
Shallow Lake Aeration Study Finalization	\$5,000.00	\$3,480.50	\$1,519.50	\$234.00	4695-101	DW-12
Project Operations						
2024 Tanners Alum Facility Monitoring	\$17,000.00	\$14,263.45	\$2,736.55	\$2,854.60	4650-101	Tal-3
Phalen/Keller and Twin Operations Support & Communications	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4650-101	DW-5, DW-13, DW-18
Lake Level Station Operation and Maintenance	\$50,000.00	\$30,293.41	\$19,706.59	\$2,543.00	4650-101	DW-5, DW-18
Capital Improvements						
Woodbury Target	\$193,200.00	\$211,951.06	-\$18,751.06	\$36,511.48	4128-518	DW-6
Roosevelt Homes	\$33,600.00	\$35,477.61	-\$1,877.61	\$2,292.97	4128-518	DW-6, DW-9
Targeted Retrofit Projects 2024	\$150,000.00	\$13,881.50	\$136,118.50	\$4,648.00	4128-518	DW-6
Stewardship Grant Program	\$75,000.00	\$15,991.80	\$59,008.20	\$3,515.80	4682-529	DW-6
Owasso Basin Flood Risk Reduction	\$200,000.00	\$13,859.77	\$186,140.23	\$52.00	4128-520	GC-3
Pioneer Park Stormwater Reuse	\$50,000.00	\$17,628.37	\$32,371.63	\$2,390.00	4128-518	DW-6
Double Driveway and Fish Creek Tributary Improvements	\$150,000.00	\$111,922.95	\$38,077.05	\$10,919.00	4129-537	FC-2
Cottage Place Wetland	\$113,800.00	\$96,659.16	\$17,140.84	\$5,967.50	4128-518	DW-6, DW-8, DW-14, LE-2, LE-3
Ames Lake improvements	\$250,000.00	\$0.00	\$250,000.00	\$0.00	4128-520	DW-9, BELT-1
PCU Pond improvements	\$150,000.00	\$0.00	\$150,000.00	\$0.00	4128-520	DW-9, KC-2
County Road C culvert capacity	\$50,000.00	\$59,247.12	-\$9,247.12	\$4,157.50	4128-520	DW-9, KC-2
Lake Emily Subwatershed BMP	\$175,800.00	\$195,256.55	-\$19,456.55	\$0.00	4128-518	LE-3
Kohlman Creek Storage and Detention	\$150,000.00	\$9,791.00	\$140,209.00	\$5,390.00	4128-520	DW-9, KC-2
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$125,000.00	\$32,702.24	\$92,297.76	\$2,933.74	4128-516	DW-5
2024 CIP Maintenance and Repairs	\$106,500.00	\$70,907.13	\$35,592.87	\$4,799.70	4128-516	DW-5
Beltline long-term fix near river outfall	\$250,000.00	\$162,420.91	\$87,579.09	\$16,302.50	4128-516	BELT-2

Barr declares under the penalties of Law that this Account, **\$163,564.60**
Claim, or Demand is just and that no part has been paid.


Bradley J. Lindaman, Vice President

2024 Capital Improvement Project (CIP) Progress Payment Number 5


1.0	Total Completed Through This Period:	<u>\$239,240.20</u>	
2.0	Total Completed Previously Completed:		<u>\$205,874.20</u>
3.0	Total Completed This Period:		<u>\$33,366.00</u>
4.0	Amount Previously Retained:	<u>\$10,293.71</u>	
5.0	Amount Retained This Period:		<u>\$1,668.30</u>
6.0	Total Amount Retained:	<u>\$11,962.01</u>	
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:	<u>\$11,962.01</u>	
9.0	Amounts Previously Paid:	<u>\$195,580.49</u>	
10.0	Amount Due This Estimate:		<u><u>\$31,697.70</u></u>

Retainage shall be 5 percent of the value of the Work completed.

SUBMITTED BY:

Name: Jason Fitzgerald Date: 6/27/2024
Title: President
Contractor: Fitzgerald Excavating Inc.
Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 6/26/2024
Title: Project Engineer
Engineer: Barr Engineering Company
Signature: 

APPROVED BY:

Name: Val Eisele Date: _____
Title: President
Owner: Ramsey-Washington Metro Watershed District
Signature: _____

2024 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through June 25th, 2024 for Progress Payment Number 5

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
A	Mobilization/Demobilization	L.S.	1	\$60,000.00	\$60,000.00	1.00	\$60,000.00	0.80	\$48,000.00	0.20	\$12,000.00
B	Control of Water	L.S.	1	\$2,000.00	\$2,000.00	1.00	\$2,000.00	0.80	\$1,600.00	0.20	\$400.00
C	Traffic Control	L.S.	1	\$2,000.00	\$2,000.00	1.00	\$2,000.00	0.80	\$1,600.00	0.20	\$400.00
Site 1 - Tamarack Swamp, Woodbury (PFS Basins Cleaning/Sweeping)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	92	\$30.00	\$2,760.00	92	\$2,760.00	92	\$2,760.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	\$2.00	\$200.00	100	\$200.00	100	\$200.00	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	60	\$2.00	\$120.00	0	\$0.00	0	\$0.00	0	\$0.00
G	Paver Sweeping	S.Y.	1,400	\$5.00	\$7,000.00	1,400	\$7,000.00	1,400	\$7,000.00	0	\$0.00
Site 2 - Lower Afton Road, Maplewood (Drainageway Sediment Removal)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	127	\$30.00	\$3,810.00	85	\$2,550.00	85	\$2,550.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	\$2.00	\$200.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 3 - West Vadnais Lake, Little Canada (Maintenance Ramp)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	50	\$2.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00
H	Boat Ramp (Precast Concrete Planks, Rock, Grading, Geotextile Filter Fabric)	L.S.	1	\$35,000.00	\$35,000.00	1	\$35,000.00	1	\$35,000.00	0	\$0.00
I	Floating Silt Curtain	L.F.	100	\$17.00	\$1,700.00	50	\$850.00	50	\$850.00	0	\$0.00
K	Clearing and Grubbing	L.S.	1	\$1,000.00	\$1,000.00	1	\$1,000.00	1	\$1,000.00	0	\$0.00
L	Sediment/Muck Excavation, Loading Hauling, and Disposal of Unregulated Material)	Ton	20	\$30.00	\$600.00	30	\$900.00	30	\$900.00	0	\$0.00
V	Bollard Access Gate and Sign (with Chain Loops and 20 feet of 3/8" Galvaniz	L.S.	1	\$4,000.00	\$4,000.00	1	\$4,000.00	1	\$4,000.00	0	\$0.00
Site 4 - Grass Lake, Little Canada (Maintenance Ramp)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	380	\$2.00	\$760.00	630	\$1,260.00	630	\$1,260.00	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	200	\$2.00	\$400.00	205	\$410.00	205	\$410.00	0	\$0.00
H	Boat Ramp (Precast Concrete Planks, Rock, Grading, Geotextile Filter Fabric	L.S.	1	\$30,000.00	\$30,000.00	1	\$30,000.00	1	\$30,000.00	0	\$0.00
I	Floating Silt Curtain	L.F.	90	\$17.00	\$1,530.00	50	\$850.00	50	\$850.00	0	\$0.00
N	Sediment/Muck/Vegetation Excavation with On-Site Disposal	L.S.	1	\$3,000.00	\$3,000.00	1	\$3,000.00	1	\$3,000.00	0	\$0.00
W	Ramsey County Parks Entry Gate	L.S.	1	\$9,000.00	\$9,000.00	1	\$9,000.00	0	\$0.00	1	\$9,000.00
Site 5 - Kohlman Basin, Maplewood (Weirs Upflow Treatment System)											
M	Place Existing Stockpiled CC17 Material (12 cuyd)	L.S.	1	\$1,000.00	\$1,000.00	1	\$1,000.00	1	\$1,000.00	0	\$0.00
Q	Install PVC Boards on Weir - 12"x0.5"x11.5' (18)	L.F.	215	\$15.00	\$3,225.00	265	\$3,975.00	265	\$3,975.00	0	\$0.00
R	Import and Place CC17 Limerock Material	Ton	30	\$70.00	\$2,100.00	25	\$1,778.00	25	\$1,778.00	0	\$0.00

2024 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through June 25th, 2024 for Progress Payment Number 5

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 6 - White Bear Ave, Maplewood (Splash Block Replacement)											
S	Remove Existing Splashblock Assembly	Each	3	\$1,000.00	\$3,000.00	3	\$3,000.00	0	\$0.00	3	\$3,000.00
U	Repair Existing Splash Block Assembly	S.F	160	\$35.00	\$5,600.00	160	\$5,600.00	0	\$0.00	160	\$5,600.00
T	Install Rain Guardian Turret	Each	3	\$4,000.00	\$12,000.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 7 - Rice Street, Little Canada (Rice Street Cattail Cleanout)											
L	Sediment/Muck and Vegetation Cleanout, West Vadnais Lake Channel (Unregulated Fill Disposal Off Site)	L.S.	1	\$1,500.00	\$1,500.00	1	\$1,500.00	1	\$1,500.00	0	\$0.00
J	Floating Silt Curtain	L.F.	120	\$17.00	\$2,040.00	0	\$0.00	0	\$0.00	0	\$0.00
E	Site restoration (Seeding and Erosion Control Blanket)	S.Y.	60	\$2.00	\$120.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 8 - Arlington Pond, Maplewood (Arlington Pond)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	1300	\$30.00	\$39,000.00	841	\$25,230.00	841	\$25,230.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	350	\$2.00	\$700.00	1,483	\$2,966.00	0	\$0.00	1,483	\$2,966.00
F	Sediment Log (9-Inch Diameter)	L.F.	20	\$2.00	\$40.00	0	\$0.00	0	\$0.00	0	\$0.00
I	Floating Silt Curtain	L.F.	80	\$17.00	\$1,360.00	0	\$0.00	0	\$0.00	0	\$0.00
J	Construction Entrance	Each	1	\$500.00	\$500.00	1	\$500.00	1	\$500.00	0	\$0.00
P	Inlet Protection	Each	1	\$150.00	\$150.00	0	\$0.00	0	\$0.00	0	\$0.00
O	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30	\$90.00	\$2,700.00	0	\$0.00	0	\$0.00	0	\$0.00
Contract Base Extensions =						\$240,215.00	\$208,329.00	0	\$174,963.00	0	\$33,366.00

Target - Woodbury Stormwater Retrofit
Progress Payment Number 2

1.0	Total Completed Through This Period:	<u>\$184,535.00</u>		
2.0	Total Previously Completed:		<u>\$ 31,790.00</u>	
3.0	Total Completed This Period:			<u>\$152,745.00</u>
4.0	Amount Previously Retained:		<u>\$1,589.50</u>	
5.0	Amount Retained This Period (See Note 1):			<u>\$7,637.25</u>
6.0	Total Amount Retained (See Note 1):		<u>\$9,226.75</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Total Retainage Remaining:		<u>\$9,226.75</u>	
9.0	Amount Previously Paid:	<u>\$30,200.50</u>		
10.0	Amount Due This Estimate:			<u><u>\$145,107.75</u></u>

Note 1: At a rate of 5%

Note 2:	Original contract price:	\$	602,645.75
	Change Order 1:	\$	-
	Change Order 2:	\$	27,546.25
	Current contract price:	\$	630,192.00

SUBMITTED BY:

Name:	<u>Austin Kurilla</u>	Date:	<u>6/30/2024</u>
Title:	<u>President</u>		
Contractor:	<u>Kurilla Contracting</u>		

Signature: 

RECOMMENDED BY:

Name:	<u>Katie Turpin-Nagel</u>	Date:	<u>06/27/2024</u>
Title:	<u>Project Engineer</u>		
Engineer:	<u>Barr Engineering Company</u>		

Signature: 

APPROVED BY:

Name:	<u>Val Eisele</u>	Date:	<u></u>
Title:	<u>President</u>		
Owner:	<u>Ramsey-Washington Metro Watershed District</u>		

Signature:

Target - Woodbury Stormwater Retrofit
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through June 18, 2024 for Progress Payment Number 2

						(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization	LS	1	\$ 35,000.00	\$ 35,000.00	0.7	\$ 24,500.00	0.7	\$ 24,500.00		\$ -
B	Traffic and Pedestrian Safety Control Measures	LS	1	\$ 5,000.00	\$ 5,000.00	1	\$ 5,000.00	1	\$ 5,000.00		\$ -
C	Existing Utility Relocation Coordination ²	LS	1	\$ 8,500.00	\$ 8,500.00	-	\$ -		\$ -		\$ -
D	Construction Layout and Staking	LS	1	\$ 7,500.00	\$ 7,500.00	0.7	\$ 5,250.00		\$ -	0.7	\$ 5,250.00
E	Tree Protection Fencing	LF	287	\$ 6.00	\$ 1,722.00	287	\$ 1,722.00		\$ -	287	\$ 1,722.00
F	Inlet Protection (P)	EA	15	\$ 125.00	\$ 1,875.00	8	\$ 1,000.00		\$ -	8	\$ 1,000.00
G	Sediment Biolog	LF	687	\$ 5.00	\$ 3,435.00	550	\$ 2,750.00	458	\$ 2,290.00	92	\$ 460.00
H	Daily Street Sweeping	HR	20	\$ 200.00	\$ 4,000.00	8	\$ 1,600.00		\$ -	8	\$ 1,600.00
I	Removal and Disposal of Tree 6" - 16" Diameter	EA	8	\$ 400.00	\$ 3,200.00	6	\$ 2,400.00		\$ -	6	\$ 2,400.00
J	Sawcut Bituminous Pavement (Full Depth) (P)	LF	1333	\$ 1.50	\$ 1,999.50	1,000	\$ 1,500.00		\$ -	1000	\$ 1,500.00
K	Sawcut and Dispose of Concrete Curb & Gutter	LF	216	\$ 10.00	\$ 2,160.00	158	\$ 1,580.00		\$ -	158	\$ 1,580.00
L	Remove and Dispose of Bituminous Pavement (P)	SY	3707	\$ 8.00	\$ 29,656.00	1,985	\$ 15,880.00		\$ -	1985	\$ 15,880.00
M	Remove and Dispose Existing Sod (P)	SY	769	\$ 9.00	\$ 6,921.00	250	\$ 2,250.00		\$ -	250	\$ 2,250.00
N	Remove, Salvage and Replace Existing Casting	EA	4	\$ 500.00	\$ 2,000.00	-	\$ -		\$ -		\$ -
O	Remove, Salvage, and Replace Existing Topsoil (P)	CY	175	\$ 23.00	\$ 4,025.00	175	\$ 4,025.00		\$ -	175	\$ 4,025.00
P	Remove, Salvage, and Replace Class 5 Aggregate (P)	CY	113	\$ 24.00	\$ 2,712.00	15	\$ 360.00		\$ -	15	\$ 360.00
Q	Furnish and Install Class 5 Aggregate Base	TON	50	\$ 44.00	\$ 2,200.00	-	\$ -		\$ -		\$ -
R	Common Excavation (P)	CY	2188	\$ 12.00	\$ 26,256.00	1,969	\$ 23,628.00		\$ -	1,969	\$ 23,628.00
S	Dispose Excavated Material Offsite (P)	CY	2178	\$ 9.50	\$ 20,691.00	1,960	\$ 18,620.00		\$ -	1,960	\$ 18,620.00
T	Soil Loosening - 18" Depth (P)	SY	1651	\$ 4.00	\$ 6,604.00	400	\$ 1,600.00		\$ -	400	\$ 1,600.00
U	Clean Washed Sand with 5 percent iron aggregate (P)	CY	79	\$ 32.00	\$ 2,528.00	28	\$ 896.00		\$ -	28	\$ 896.00
V	Precast 3' x 2' Catch Basin with Sump, Complete	EA	6	\$ 1,200.00	\$ 7,200.00	-	\$ -		\$ -		\$ -
W	Precast Curb Opening Catch Basin with Sump, Complete	EA	1	\$ 5,000.00	\$ 5,000.00	-	\$ -		\$ -		\$ -
X	12" DI Storm Sewer Pipe, Shallow Bury in Parking Lot	LF	131	\$ 115.00	\$ 15,065.00	-	\$ -		\$ -		\$ -
Y	12" DI Storm Sewer Pipe, Green Space	LF	13	\$ 120.00	\$ 1,560.00	-	\$ -		\$ -		\$ -
Z	10" DI Storm Sewer Pipe, Shallow Bury in Parking Lot	LF	374	\$ 79.00	\$ 29,546.00	-	\$ -		\$ -		\$ -
AA	10" DI Storm Sewer Pipe, Green Space	LF	66	\$ 79.00	\$ 5,214.00	-	\$ -		\$ -		\$ -
BB	8" DI Storm Sewer Pipe, Green Space	LF	10	\$ 100.00	\$ 1,000.00	-	\$ -		\$ -		\$ -
CC	DI Storm Sewer Pipe Mitered End	EA	3	\$ 100.00	\$ 300.00	-	\$ -		\$ -		\$ -
DD	6" Perforated Dual Wall HDPE Draintile Pipe and Fittings, no sock (P)	LF	351	\$ 17.50	\$ 6,142.50	110	\$ 1,925.00		\$ -	110	\$ 1,925.00
EE	4" Perforated Single Wall HDPE Draintile Pipe and Fittings, no sock (P)	LF	153	\$ 20.00	\$ 3,060.00	153	\$ 3,060.00		\$ -	153	\$ 3,060.00
FF	6" PVC Storm Sewer Pipe and Fittings (P)	LF	206	\$ 21.00	\$ 4,326.00	115	\$ 2,415.00		\$ -	115	\$ 2,415.00
GG	4" PVC Storm Sewer Pipe and Fittings (P)	LF	25	\$ 20.00	\$ 500.00	13	\$ 260.00		\$ -	13	\$ 260.00
HH	6" Draintile Cleanout and Cover Unit	EA	7	\$ 500.00	\$ 3,500.00	2	\$ 1,000.00		\$ -	2	\$ 1,000.00
II	6" Draintile Connection to Existing Structure	EA	2	\$ 400.00	\$ 800.00	1	\$ 400.00		\$ -	1	\$ 400.00
JJ	8" Trench Drain with Concrete Encasement and Slotted Grate, Complete	LF	235	\$ 350.00	\$ 82,250.00	-	\$ -		\$ -		\$ -
KK	Snout Hood	EA	1	\$ 1,020.00	\$ 1,020.00	-	\$ -		\$ -		\$ -
LL	Splash Block Assembly	EA	3	\$ 1,500.00	\$ 4,500.00	-	\$ -		\$ -		\$ -
MM	Limestone Block Retaining Wall, Complete	SFF	462	\$ 72.00	\$ 33,264.00	462	\$ 33,264.00		\$ -	462	\$ 33,264.00
NN	Bituminous Pavement (P)	SY	3469	\$ 25.00	\$ 86,725.00	-	\$ -		\$ -		\$ -
OO	Painted Pavement Marking	LS	1	\$ 2,000.00	\$ 2,000.00	-	\$ -		\$ -		\$ -
PP	B612 Concrete Curb & Gutter	LF	177	\$ 70.00	\$ 12,390.00	-	\$ -		\$ -		\$ -
QQ	B912 Concrete Curb & Gutter	LF	31	\$ 70.00	\$ 2,170.00	-	\$ -		\$ -		\$ -
RR	Twice Shredded Hardwood Mulch (P)	CY	170	\$ 70.00	\$ 11,900.00	-	\$ -		\$ -		\$ -
SS	Planting Soil (75% loamy sand, 25% compost - MnDOT Grade II) (P)	CY	283	\$ 41.00	\$ 11,603.00	100	\$ 4,100.00		\$ -	100	\$ 4,100.00
TT	Perennials - 4" Container (P)	EA	1522	\$ 9.00	\$ 13,698.00	-	\$ -		\$ -		\$ -
UU	Perennials - 1 Gallon Container (P)	EA	3510	\$ 17.00	\$ 59,670.00	-	\$ -		\$ -		\$ -
VV	Shrub (#5 Gallon Container) (P)	EA	77	\$ 58.00	\$ 4,466.00	-	\$ -		\$ -		\$ -
WW	Deciduous Tree (#20, Cont.) (P)	EA	8	\$ 400.00	\$ 3,200.00	-	\$ -		\$ -		\$ -
XX	Low Grow Turf Seeding	SF	3461	\$ 0.25	\$ 865.25	-	\$ -		\$ -		\$ -
YY	Erosion Control Blanket for Seeding	SF	3461	\$ 0.50	\$ 1,730.50	-	\$ -		\$ -		\$ -
ZZ	Steel Landscape Edging	LF	833	\$ 12.00	\$ 9,996.00	-	\$ -		\$ -		\$ -
C - Edit	Existing Utility Relocation Coordination ²	LS	1	\$ 25,900.00	\$ 25,900.00	1	\$ 17,500.00		\$ -	0.68	\$ 17,500.00
C.O.2.A	Dark Hardwood Mulch (P)	CY	170	\$ 85.00	\$ 14,450.00	30	\$ 2,550.00		\$ -	30	\$ 2,550.00
C.O.2.B	Deciduous Tree (2" Caliper B&B)	EA	6	\$ 950.00	\$ 5,700.00	-	\$ -		\$ -		\$ -
C.O.2.C	Sodding (Salt Tolerant)	SF	3124	\$ 1.50	\$ 4,686.00	-	\$ -		\$ -		\$ -
C.O.2.D	Root Pruning	LS	1	\$ 3,500.00	\$ 3,500.00	1	\$ 3,500.00		\$ -	1	\$ 3,500.00
TOTAL BASE BID					\$ 602,645.75 ¹		\$ 184,535.00		\$ 31,790.00		\$ 152,745.00

¹Total base bid of \$602,645.75 reflects the original contract price and does not include Change Order 2.

With Change Order 2, the current contract price is \$630,192.00

²Per Change Order 2, the lump sum cost was adjusted to \$25,900

**Pioneer Park Stormwater Reuse
Progress Payment Number 1**

1.0	Total Completed Through This Period:	<u>\$110,012.73</u>		
2.0	Total Previously Completed:		\$ -	
3.0	Total Completed This Period:			<u>\$110,012.73</u>
4.0	Amount Previously Retained:		<u>\$0.00</u>	
5.0	Amount Retained This Period (See Note 1):			<u>\$5,500.64</u>
6.0	Total Amount Retained (See Note 1):		<u>\$5,500.64</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Total Retainage Remaining:		<u>\$5,500.64</u>	
9.0	Amount Previously Paid:	<u>\$0.00</u>		
10.0	Amount Due This Estimate:			<u><u>\$104,512.09</u></u>

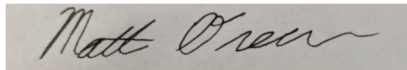
Note 1: At a rate of 5%

Note 2:	Original contract price:	\$458,195.44
	Bid Alternate A:	\$14,658.00
	Change Order 1:	\$0.00
	Change Order 2:	\$14,732.07
	Current contract price:	\$487,585.51

SUBMITTED BY:

Name: Matt Dreshar Date: 6/14/2024
Title: Project Manager
Contractor: Peterson Companies

Signature:



RECOMMENDED BY:

Name: Jennifer Koehler Date: 6/19/2024
Title: Project Engineer
Engineer: Barr Engineering Company

Signature:



APPROVED BY:

Name: Val Eisele Date: _____
Title: President
Owner: Ramsey-Washington Metro Watershed District

Signature: _____

Pioneer Park Stormwater Reuse Project

Owner: Ramsey-Washington Metro Watershed District

Contractor: Peterson Companies

Summary of Work Completed through 6/14/2024 for Progress Payment Number 1

Line Item	Item Code	Item Description	Unit	Bidding Quantity	Peterson Companies Bid Amount		(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
					Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
1	A	Mobilization/Demobilization	L.S.	1	\$16,032.00	\$16,032.00	0.75	\$12,024.00	0.00	\$0.00	0.75	\$12,024.00
2	B	Rock Erosion Control Construction Entrance	Each	1	\$6,226.00	\$6,226.00	1	\$6,226.00	0.00	\$0.00	1.00	\$6,226.00
3	C	Silt Fence, Machine Sliced	L.F.	195	\$4.40	\$858.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00
4	D	Sediment Control Log	L.F.	1780	\$3.85	\$6,853.00	278	\$1,070.30	0.00	\$0.00	278.00	\$1,070.30
5	E	Floating Silt Curtain	L.F.	225	\$13.75	\$3,093.75	0	\$0.00	0.00	\$0.00	0.00	\$0.00
6	F	Dewatering (Control of Water)	L.S.	1	\$10,040.00	\$10,040.00	1	\$10,040.00	0.00	\$0.00	1.00	\$10,040.00
7	G	Clearing and Grubbing (P)	Acre	0.1	\$22,968.00	\$2,296.80	0.1	\$2,296.80	0.00	\$0.00	0.10	\$2,296.80
8	H	Salvage, Stockpile, and Place Topsoil (P)	C.Y.	62	\$231.72	\$14,366.64	31	\$7,183.32	0.00	\$0.00	31.00	\$7,183.32
9	I	Pavilion Pipe Modifications	LS	1	\$28,912.00	\$28,912.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00
10	J	Import and Place Fill	C.Y.	5	\$66.44	\$332.20	0	\$0.00	0.00	\$0.00	0.00	\$0.00
11	K	Class III Rip Rap	TON	10	\$98.75	\$987.50	14.76	\$1,457.55	0.00	\$0.00	14.76	\$1,457.55
12	L	1.5" Clear River Rock	TON	2.3	\$302.26	\$695.20	0	\$0.00	0.00	\$0.00	0.00	\$0.00
13	M	4" PVC Piping	L.F.	75	\$15.59	\$1,169.25	0	\$0.00	0.00	\$0.00	0.00	\$0.00
14	N	4" Stainless Steel Schedule 10 Piping	L.F.	70	\$179.21	\$12,544.70	0	\$0.00	0.00	\$0.00	0.00	\$0.00
15	O	Pipe Supports	Each	2	\$802.00	\$1,604.00		\$0.00	0.00	\$0.00	0.00	\$0.00
16	P	Package Pump and Treatment System & Shelter	L.S.	1	\$227,512.00	\$227,512.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00
17	Q	Concrete Foundation	L.S.	1	\$11,852.00	\$11,852.00	0.5	\$5,926.00	0.00	\$0.00	0.50	\$5,926.00
18	R	Connection to Existing Irrigation System	L.S.	1	\$14,030.00	\$14,030.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00
19	S	Electrical and Controls	L.S.	1	\$35,240.00	\$35,240.00	0.33	\$11,629.20	0.00	\$0.00	0.33	\$11,629.20
20	T	Intake Structure	L.S.	1	\$32,342.00	\$32,342.00	0.75	\$24,256.50	0.00	\$0.00	0.75	\$24,256.50
21	U	Wooden Skimmer	L.S.	1	\$3,286.00	\$3,286.00	1	\$3,286.00	0.00	\$0.00	1.00	\$3,286.00
22	V	Erosion Control Blanket (P)	S.Y.	1090	\$2.32	\$2,528.80	500	\$1,160.00	0.00	\$0.00	500.00	\$1,160.00
23	W	Hydromulch (P)	S.Y.	2826	\$1.28	\$3,617.28	0	\$0.00	0.00	\$0.00	0.00	\$0.00
24	X	Turf Seed (P)	Acre	0.58	\$16,043.79	\$9,305.40	0	\$0.00	0.00	\$0.00	0.00	\$0.00
25	Y	Shoreline Seed (P)	Acre	0.23	\$23,560.52	\$5,418.92	0.11	\$2,591.66	0.00	\$0.00	0.11	\$2,591.66
26	Z	Tree Protection Fencing	L.F.	620	\$3.30	\$2,046.00	441.9	\$1,458.27	0.00	\$0.00	441.90	\$1,458.27
27	AA	Channel Modifications Below Pedestrian Bridge	L.S.	1	\$5,006.00	\$5,006.00	1	\$5,006.00	0.00	\$0.00	1.00	\$5,006.00
Bid Alternate A												
28	Bid Alt	Electrical & Controls - Alternate Route to Pavilion	LS	1	\$14,658.00	\$14,658.00	0.49	\$7,182.42	0.00	\$0.00	0.49	\$7,182.42
Base Bid Total:						\$458,195.44		\$95,611.60				\$95,611.60
Base Bid with Bid Alternate A Total:						\$472,853.44		\$102,794.02		\$0.00		\$102,794.02
Change Order 1 - Revised Access (No Change in Price)			LS	1	\$0.00	\$0.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00
Change Order 2 - Revised Electrical Quantities (Scale Bar)			LS	1	\$14,732.07	\$14,732.07	0.49	\$7,218.71	0.00	\$0.00	0.49	\$7,218.71
Base Bid with Bid Alternate A and Change Orders:						\$487,585.51		\$110,012.73		\$0.00		\$110,012.73
5% Retainage										\$5,500.64		\$5,500.64
Payment Request										\$104,512.09		\$104,512.09

Galowitz Olson, PLLC
10390 39th Street North
Lake Elmo, Minnesota 55042
Office: (651) 777-6960
Fax: (651) 777-8937

Ramsey-Washington Metro Watershed District
C/O Tina Carstens
2665 Noel Drive
Little Canada MN 55117

Page: 1
June 27, 2024
File No: 9M

	Balance
General Account	\$2,192.50
FISH CREEK PROJECT	\$50.00
North St Paul Target Project	\$302.50
	<u>\$2,545.00</u>

Permit Application Coversheet

Date July 10, 2024

Project Name Rice Street Crossings

Project Number 24-34

Applicant Name Patrick Brama, Enclave Companies

Type of Development Mixed Use

Property Description

This project is located at Rice Street and I-694 in the City of Shoreview. The applicant is proposing a mixed use development including multi-family residential, retail, parking, and utilities. The total disturbed area is 10.5 acres. Three underground filtration systems with impermeable liners are proposed to meet stormwater treatment requirements. Pretreatment methods will include sump structures and isolator rows. Filtration is being proposed due to high groundwater and contaminated soils. The site is also located in a moderate vulnerability Drinking Water Supply Management Area (DWSMA). A majority of the existing site is gravel and bituminous. The proposed development will decrease impervious area by over half an acre.

Watershed District Policies or Standards Involved:

- | | |
|--|---|
| <input type="checkbox"/> Wetlands | <input checked="" type="checkbox"/> Erosion and Sediment Control |
| <input checked="" type="checkbox"/> Stormwater Management | <input type="checkbox"/> Floodplain |

Water Quantity Considerations

The proposed stormwater management plan is sufficient to handle the runoff from the site.

Water Quality Considerations

Short Term

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

Long Term

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

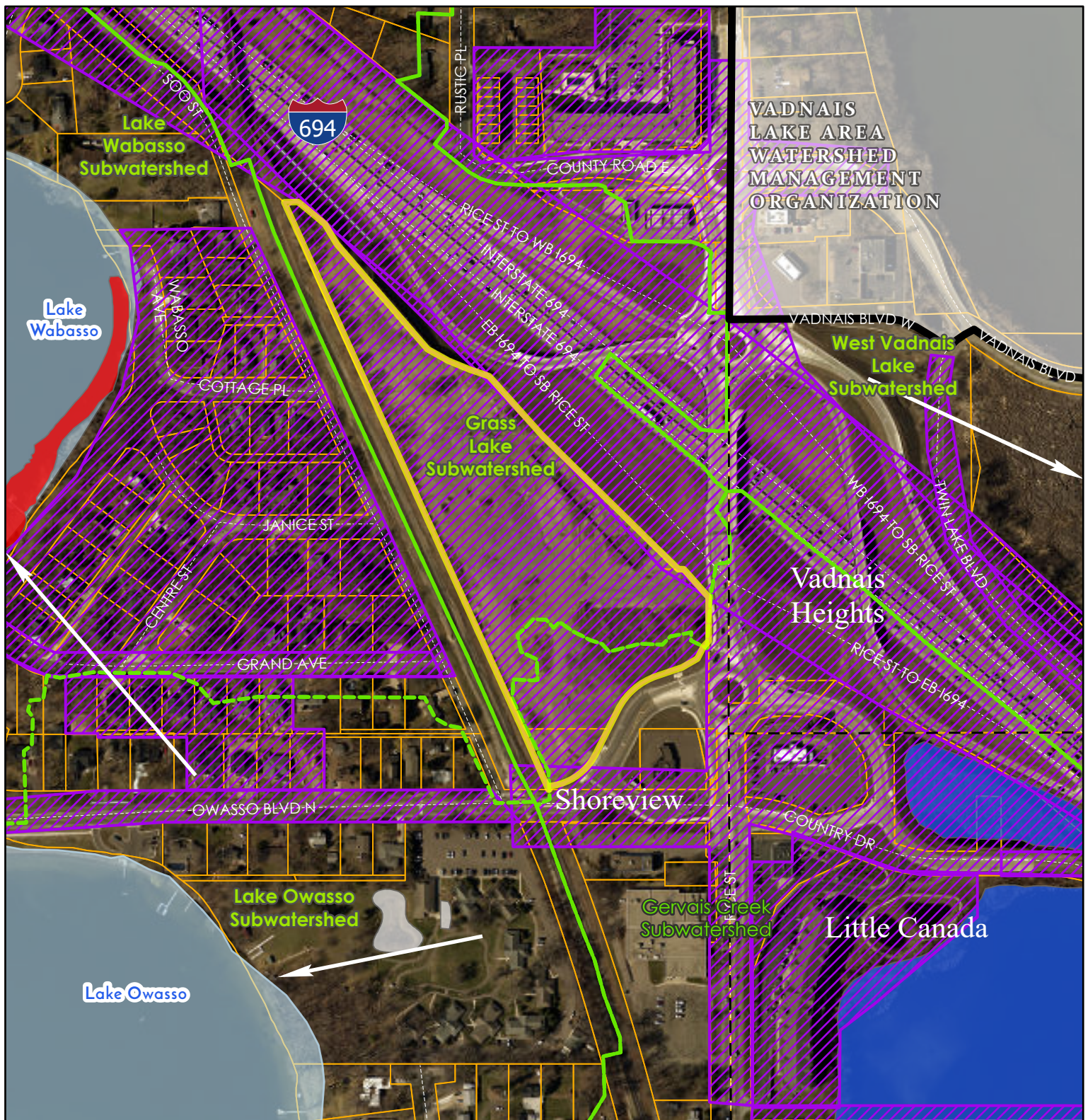
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- ☒ **Project Location Map**
- ☒ **Project Grading Plan**

#24-34 Rice Street Crossings



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

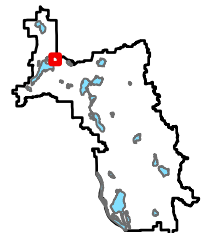
Flow Arrows

- Roads
- Permits
- Cities
- Subwatersheds
- Lakes
- Ramsey Co Parcels
- RWMWD Boundary

Highlighted Areas
Represent Active Permit

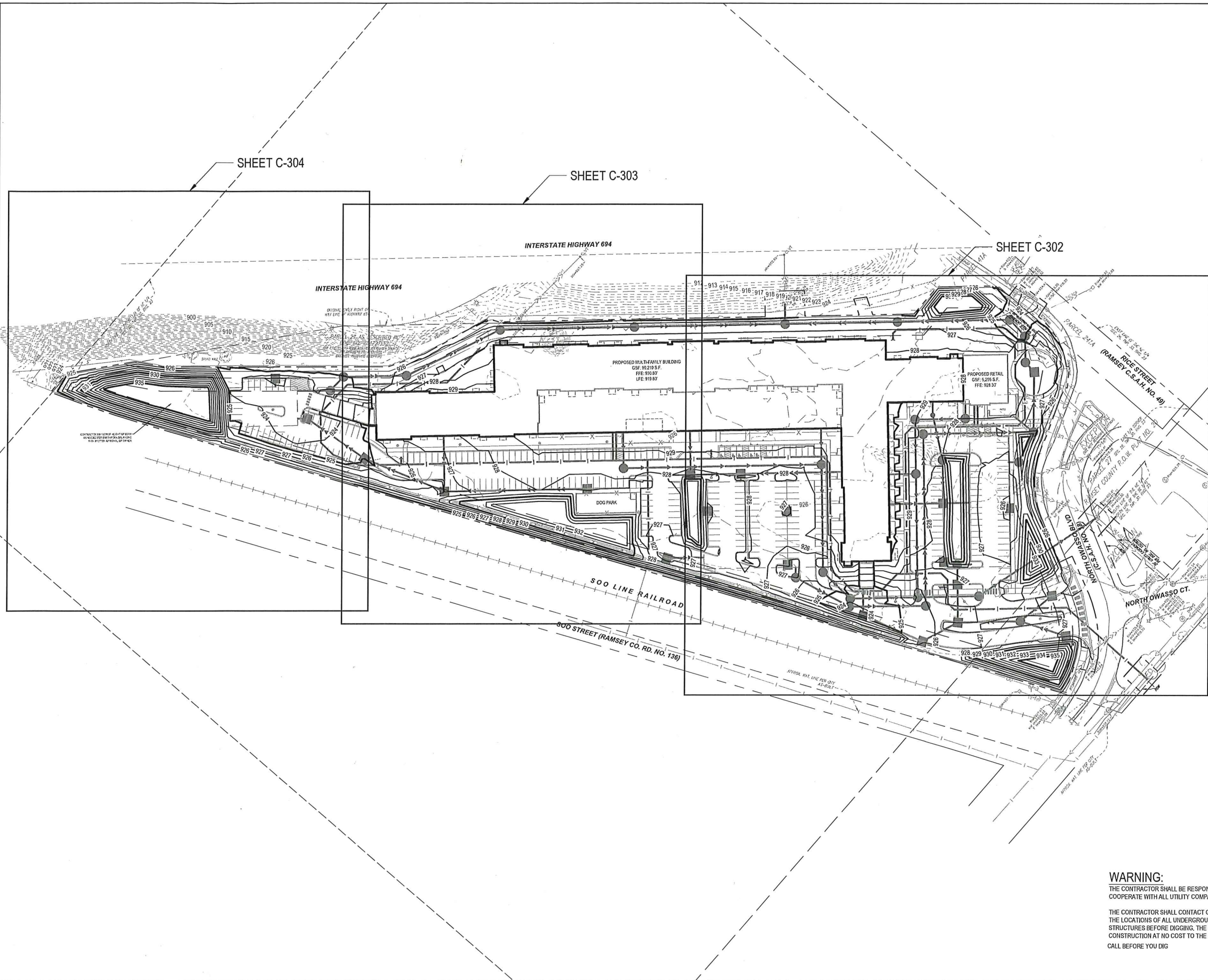
0 0.05 0.1 Miles

0 350 700 US Feet



Special Provisions

1. The applicant shall submit the escrow fee of \$52,500.
2. The applicant shall submit updated plans:
 - A. Include site-specific construction details for the underground filtration BMPs, including outlet control structures.
 - B. Specify an impermeable liner below the underground filtration BMPs.
 - C. Show locations of the BMP clean-outs and inspection manholes on the utility plan.
3. The applicant shall add notes to the plans:
 - A. Providing direction on best practices for construction of underground filtration BMPs, including keeping systems offline and protected from clogging and construction activity until all contributing areas are restored.
 - B. "Notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956 prior to beginning construction activity to schedule an initial erosion control inspection."
 - C. "Notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956 at least 48 hours prior to construction of the underground filtration BMPs."
 - D. "The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction."
3. The applicant shall submit the final, signed plans set.
4. The applicant shall submit an executed stormwater maintenance agreement for the proposed BMPs.
5. The applicant shall submit a BMP Operations & Maintenance Plan for the proposed BMPs.
6. The applicant shall submit the final geotechnical report.
7. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
8. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



LEGEND

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	SECTION LINE
	QUARTER LINE
	EXISTING EASEMENT LINE
	EXISTING PROPERTY LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	CONSTRUCTION LIMITS
	GRADING LIMITS
	SURFACE GRADE & FLOW DIRECTION
	SURFACE SLOPE (H:V) & FLOW DIRECTION
	FLOW LINE ELEVATION
	FINISHED GRADE ELEVATION
	MATCH EXISTING ELEVATION
	SIDEWALK ELEVATION
	FINISHED GRADE AT THE TOP OF WALL
	FINISHED GRADE AT THE BOTTOM OF WALL
	STRUCTURE RIM SPOT ELEVATION

NOTES

- SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.
- EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED ON INTERPOLATED POINT TO POINT SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY OF ANY FIELD DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR MAKING NECESSARY ADJUSTMENTS IN THE FIELD FOR CONSTRUCTABILITY, REGULATORY COMPLIANCE (ADA), POSITIVE DRAINAGE, AND TO ENSURE SMOOTH TRANSITIONS TO FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR REWORK OF A DISCREPANCY THAT IS NOT COMMUNICATED TO THE ENGINEER IN WRITING.
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER. FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING WITH INSTALLATION RELIEVES OWNER AND ENGINEER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- ALL SPOT ELEVATION LABELS AT RETAINING WALLS ARE SURFACE GRADE ADJACENT TO WALL TOP AND BOTTOM. SEE STRUCTURAL FOR WALL HEIGHT/DESIGN.

WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



733 S MARQUETTE AVE
SUITE #1000
MINNEAPOLIS, MN 55402
(7) - 612-712-2000
WWW.STANTEC.COM

CLIENT:



RICE STREET CROSSINGS

3377 RICE STREET
SHOREVIEW, MINNESOTA 55126

PROJECT TITLE:

ISSUE NO.	DESCRIPTION	DATE
0	ISSUED FOR PERMIT	06/19/2024
1	RAWWD RESUBMITTAL	06/19/2024

CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE NO.: 59296

DATE: 06/19/2024

PROJECT NO.: 193806435

DWN BY:	CHK'D BY:	APP'D BY:
HML	MDH	JRA

ISSUE DATE: 06/19/2024

ISSUE NO.: 1

SHEET TITLE:

OVERALL GRADING PLAN

SHEET NO.:

C-301

Stewardship Grant Application Summary

Project Name: 2024 Lake Phalen Aquatic Vegetation Harvesting **Application Number:** 24-40 CS

Board Meeting Date: 7/10/2024

Applicant Name: Adam Robbins

Residential ☐

Commercial/Government ☒

Project Overview:

As part of the 2024 Stewardship Grant Program, RWMWD offered 50% cost share funding up to \$15,000 for materials and labor associated with harvesting aquatic plants. The City of St. Paul will be contracting mechanical lake weed harvesting services for Eurasian watermilfoil on Lake Phalen. Harvesting will be performed to remove organically-bound phosphorous within the plants and will also enhance recreational access at the boat launch, swimming beach, and fishing access points. Harvesting will occur by mid-July and will take one week to complete. The applicant has received an Invasive Aquatic Plant Management Permit from the MnDNR.

BMP type(s):

Aquatic Vegetation Harvesting(1)

Grant Request:

\$12,500.00

Recommendation:

Staff recommends approval of this application.

Subwatershed:

Lake Phalen

Location Maps:



Permit Program

Permit Application Coversheet

Date July 10, 2024

Project Name Woodlane Dr Retaining Wall Removal

Project Number 24-35

Applicant Name Kristin Seaman, City of Woodbury

Type of Development Grading

Property Description

This project is located off Woodlane Drive, south of Lake Road in the City of Woodbury. The applicant is proposing to remove a failing retaining wall to improve safety for the adjacent homeowner and trail users. Following removal the area will be regraded and restored, resulting in 184 cubic yards of fill below the 100-year High Water Level (HWL) of the nearby stormwater basins. A variance request for compensatory storage (Rule D) is included with the application to demonstrate that while the proposed grading and fill in the floodplain will result in less than 0.01 ft increase in the 100-year HWL, the adjacent habitable structures have adequate freeboard. An increase in peak discharge rates of 2 cfs is noted, however calculations have been included to demonstrate that the increase in rates does not result in an increase to peak flood elevations downstream. The total disturbance area is 0.29 acre, and permanent stormwater treatment is not required.

Watershed District Policies or Standards Involved:

- | | |
|---|---|
| <input type="checkbox"/> Wetlands | <input checked="" type="checkbox"/> Erosion and Sediment Control |
| <input type="checkbox"/> Stormwater Management | <input checked="" type="checkbox"/> Floodplain |

Water Quantity Considerations

The proposed grading plan and associated calculations are sufficient to demonstrate no adverse flood impacts downstream.

Water Quality Considerations

Short Term

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

Long Term

There are no long term water quality considerations.

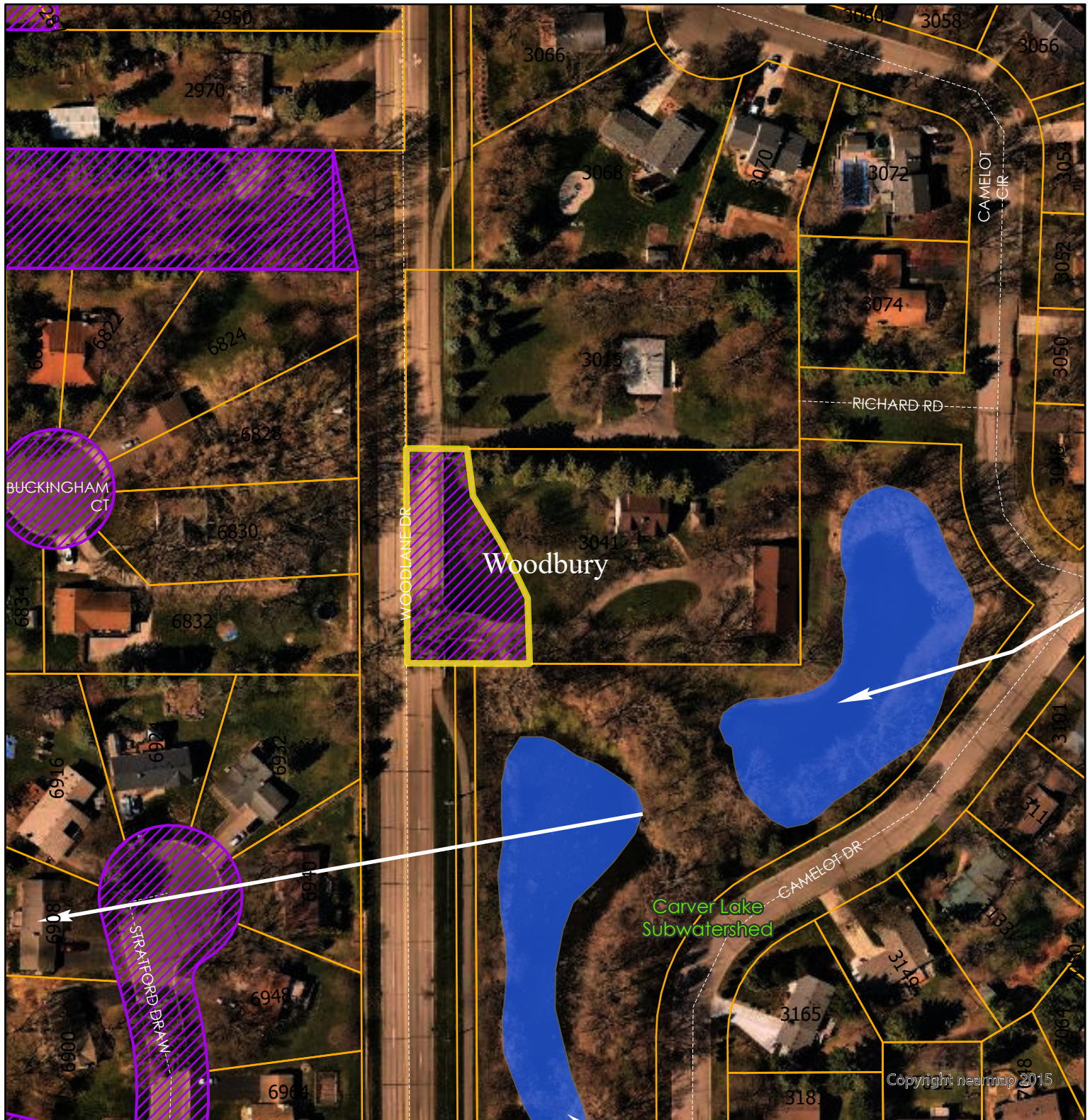
Staff Recommendation

Staff recommends approval of this permit with the special provisions and variance request (Rule D).

Attachments:

- ☒ **Project Location Map**
- ☒ **Project Grading Plan**

#24-35 Woodlane Dr. Retaining Wall Removal



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

Flow Arrows

Roads

Permits

Cities

Subwatersheds

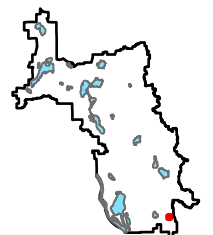
Washington Co Parcels

RWMWD Boundary

Highlighted Areas
Represent Active Permit

0 0.02 0.04 Miles

0 125 250 US Feet



Copyright nearmap 2015

24-35

Special Provisions

1. The applicant shall add a note to the plans to notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956 prior to beginning construction activity to schedule an initial erosion control inspection.
2. The applicant shall submit the final, signed plans.
3. The applicant shall submit contact information for the erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).

GENERAL NOTES:

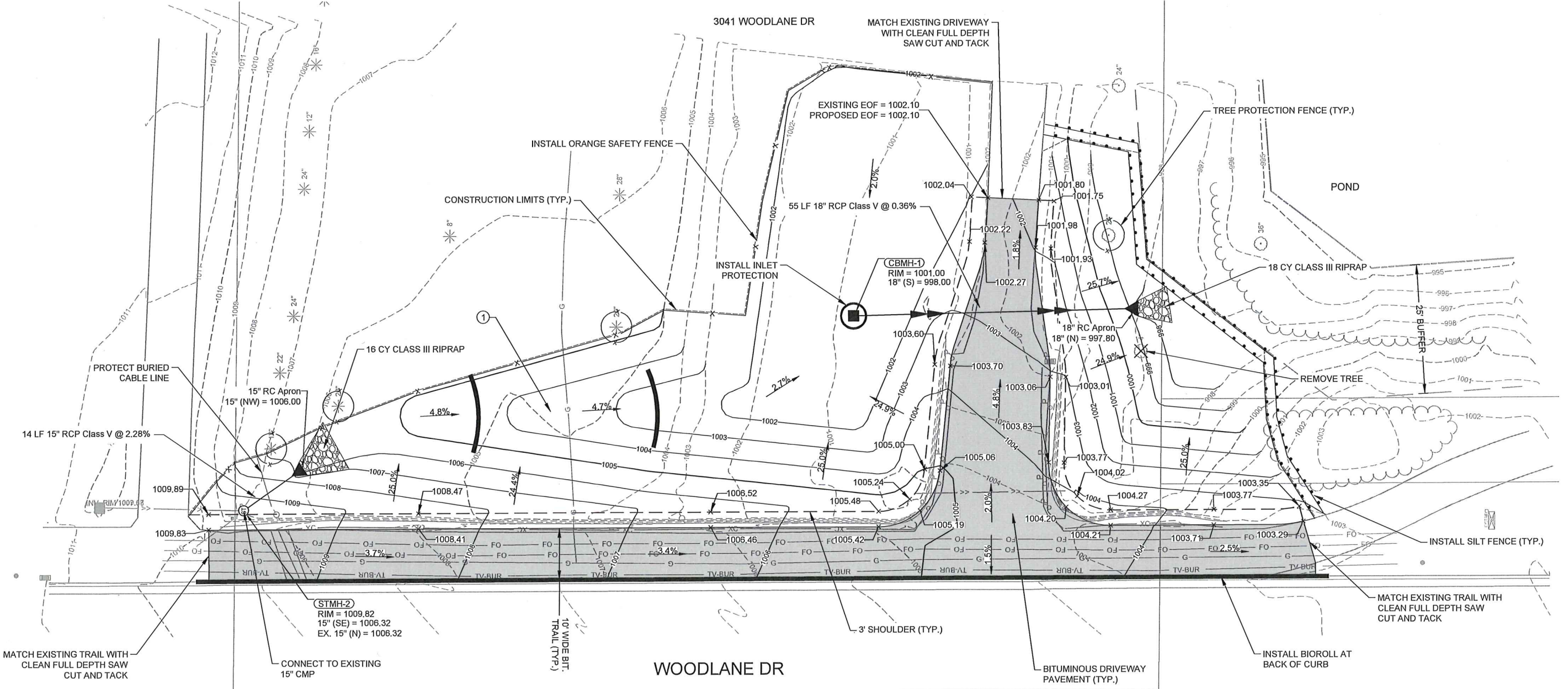
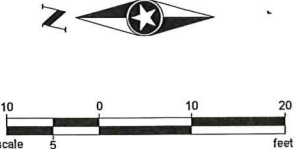
- RESTORE ALL DISTURBED AREAS WITH 6" LOAM TOPSOIL BORROW W/ SEED MIX MNDOT 25-151 & HYDRAULIC MULCH
- ALL CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS NOTED OTHERWISE.
- ANY USE OF SHORING OR OTHER MEANS NECESSARY TO KEEP WORK WITHIN THE GRADING LIMITS IS CONSIDERED INCIDENTAL.
- PROTECT ALL EXISTING TREES
- INSTALL INLET PROTECTION AT ALL AFFECTED INLETS IN THE ROADWAY.
- MAINTAIN ACCESS TO 3041 WOODLANE DR. PROVIDE ADEQUATE NOTICE IF ACCESS WILL BE RESTRICTED.
- CONTRACTOR TO PROVIDE TRAFFIC CONTROL. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

KEY NOTES:

- INSTALL EROSION CONTROL BLANKET, CATEGORY 10, ALONG THE BOTTOM OF THE DRAINAGE SWALE, 16' WIDE, AS DIRECTED BY THE ENGINEER IN THE FIELD.

LEGEND

- BITUMINOUS PAVEMENT, 3" SPWEA240C & 6" CLASS 5 GRAVEL BASE
- CLASS III RIPRAP
- INSTALL BIOROLL
- INSTALL TREE PROTECTION FENCE
- INSTALL SILT FENCE
- REMOVE TREE (EACH)



Save: 5/1/2024 9:01 PM alabin Plot: 5/1/2024 9:06 PM X:\UZ\W\WOODDB\174063\5-final-dgn\51-drawings\10-Civil\dwg\sheet174063PL.dwg

SEH Project	174063	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	ACB						
Designed By	ACB						
Checked By	CES						



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
CHAD E. SEITZER, P.E.
DATE: XX-XX-XX LICENSE NO. 40913

3041 WOODLANE DR RETAINING WALL
REMOVAL AND TRAIL IMPROVEMENTS
WOODBURY, MINNESOTA

CONSTRUCTION, GRADING, STORM
SEWER, AND EROSION CONTROL PLAN



Building a Better World
for All of Us®

MEMORANDUM

TO: Ramsey-Washington Metro WD

FROM: Carson Webb, EIT
Riley Mondloch, PE (Lic. MN, WI, IN, NV)

DATE: June 28, 2024

RE: Compensatory Storage Requirement Variance Request
3041 Woodlane Drive Retaining Wall Removal Project
SEH No. 174063

BACKGROUND

This report outlines the technical details of a proposed retaining wall removal project on Woodlane Dr North of Stratford Rd in the City of Woodbury. The report summarizes the Ramsey-Washington Metro Watershed District (RWMWD) rules that apply to this project and the City of Woodbury's request for a variance to Rule D of the RWMWD Regulations. The project site is in Sections 19 & 20 in Township 28 North, Range 21 West in Woodbury, Minnesota, within Washington County. This project will include removing a failing retaining wall that has created an unsafe condition for the homeowner and the pedestrians utilizing the trail adjacent to the wall. The proposed work will eliminate the wall and incorporate an embankment in its place. The main goal of the project is to improve area stability and safety while meeting the watershed's regulatory standards.

RULE D – FLOOD CONTROL

Given the restrained site conditions and limited alternatives to providing compensatory storage without major impacts to the surrounding areas, the City of Woodbury is requesting a variance to Rule D for compensatory storage requirements.

The criteria for this rule states:

- *Placement of fill within the 100-year floodplain is prohibited unless compensatory storage is provided. Compensatory storage must be provided on the development or immediately adjacent to the development within the affected floodplain.*
 - o *Compensatory storage shall result in the creation of floodplain storage to fully offset the loss of floodplain storage. Compensatory storage shall be created prior to or concurrently to the permitted floodplain filling.*

RULE F – EROSION AND SEDIMENT CONTROL

In total, this project will be disturbing 0.29 acres of land in the Ramsey-Washington Metro Watershed District, since work will be taking place within the 100-year floodplain, a stormwater pollution prevention plan (SWPPP) has been developed for this construction site and conforms to the NPDES Construction Stormwater General Permit; this plan can be seen in the attached plan sheets.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 3535 Vadnais Center Drive, St. Paul, MN 55110-3507

651.490.2000 | 800.325.2055 | 888.908.8166 fax | sehinc.com

SEH is 100% employee-owned | Affirmative Action–Equal Opportunity Employer

MODEL DEVELOPMENT

SEH was provided an XPSWMM model of the project area from Barr Engineering that is assumed to be the most current regulatory model. Figure 1 shows the XPSWMM model node layout with the affected stormwater pond being XPSWMM ID CARV-85a. An adjacent stormwater pond just northeast, ID CARV-85b, is hydraulically connected to CARV-85a via a 30-inch diameter pipe at elevation 994.62' and an earthen weir with invert elevation of 1001.5', based on MnTOPO 1m resolution LiDAR. It was noted that in the model received, the invert elevation of this weir was 1002.0'. For this analysis, the weir elevation was adjusted from 1002.0' to 1001.5' based on LiDAR data. This change was made to ensure the peak water elevations can equalize between the two stormwater ponds in the most realistic way possible so that potential impacts from the proposed project can be properly assessed for both ponds. This change resulted in a 0.02 ft increase in the peak 100-year High-Water Level (HWL) for pond CARV-85a compared to the model received from Barr Engineering.

Additionally, the outlet links from CARV-85a were adjusted. The links were changed such that there is a single overtopping connection from the pond to the node CARV-85r on the roadway to represent the berm. Previously there were two separate connections, both with lengths that were too low. Next, flow from CARV-85r south on Woodlane Drive and then west on Stratford Road was modeled by connecting the link representing the road as a trapezoidal channel directly to CARV-85r. Previously this link was connected to the pond (node CARV-85a) which is not ideal as overtopping flows from the pond must first move through node CARV-85r. Finally, storage was added to CARV-85r to represent the surface storage on the low point on Woodlane Drive at this node. Note that the berm on the west side of Woodlane Drive at this location had been raised such that any ponded water in the low point will flow south and then west on Stratford Road rather than moving through the yards of homes to the west. These changes resulted in the 100-year HWL increasing by around two 10ths of a foot on pond CARV-85a.

It should be noted that both CARV-85a and CARV-85b are constructed stormwater ponds with CARV-85a previously maintained via dredging under a Ramsey-Washington Metro Watershed District contract with the City of Woodbury.

The grading plan developed by SEH was used to update storage calculations in the model to reflect changes from existing to proposed conditions. Approximately 184 cubic yards of fill is proposed below the 100-year HWL of 1002.05'. The existing and proposed contours were measured to assess the change in volume from the proposed grading at each contour level. It was determined that fill would be required starting at the 999 contour and higher. The existing storage in the model remained unaltered, and the measured differences were then applied to the relevant contours in the proposed model to decrease the volume as per the proposed plans. The plans will be attached and will show project location and details.

Figure 1. XPSWMM Model



RESULTS AND ANALYSIS

Table 1 below shows the 100-year HWL results for the existing and proposed conditions for stormwater ponds CARV-85a and CARV-85b. Figure 2 and Figure 3 show the XPSWMM hydrographs comparing the existing and proposed HWLs for ponds CARV-85a and CARV-85b.

Table 1. Existing and Proposed HWLs

Node	Existing HWL	Proposed HWL
CARV-85a	1002.05	1002.05
CARV-85b	1002.73	1002.73

Figure 2. Existing and Proposed Hydrographs for CARV-85a

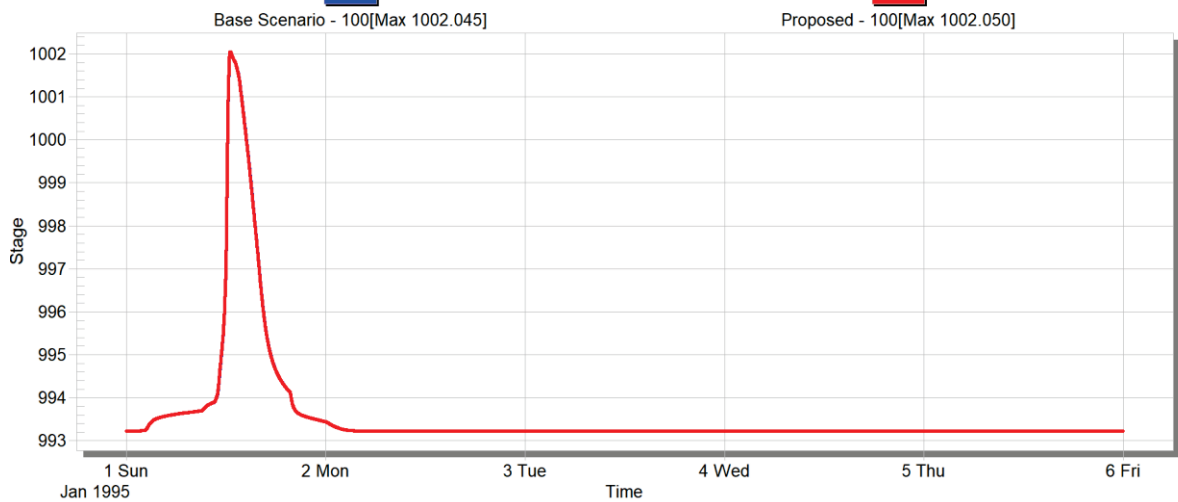
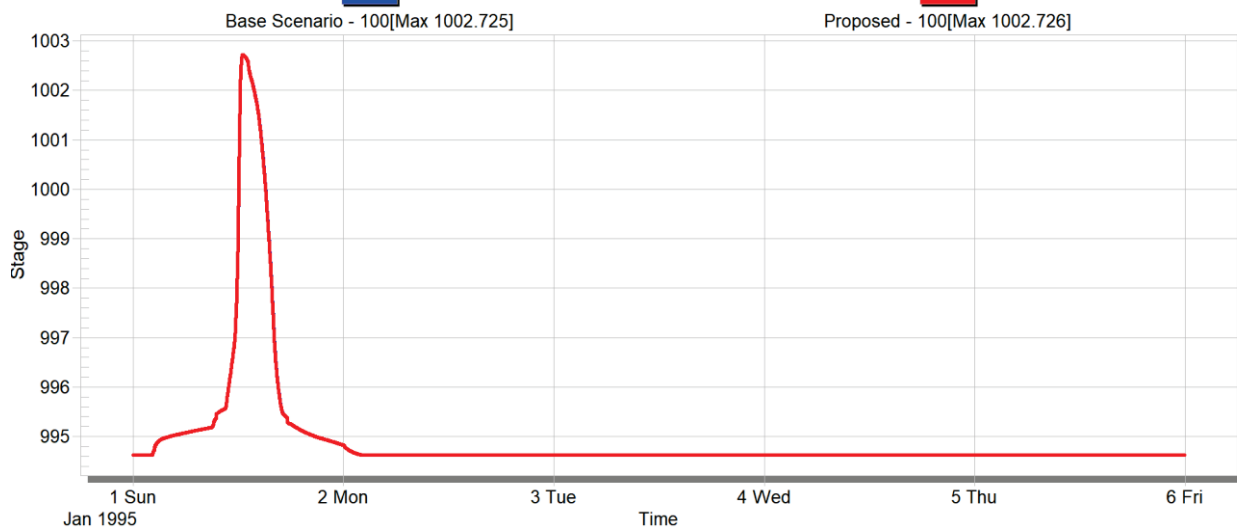


Figure 3. Existing and Proposed Hydrographs for CARV-85b



The analysis for CARV-85a included verifying minimum freeboard requirements are being met. Watershed regulations require a minimum of 2 ft of freeboard for waterbodies with piped outlets to existing habitable buildings. The lowest building opening elevation as surveyed is 1007.14'. With the proposed 100-year HWL being 1002.05', the provided freeboard will be 5.09 ft. Adequate freeboard is provided with the proposed changes.

DISCHARGE RATES

This discharge from the pond occurs to the west. A 36-inch FES pipe discharges from the normal water line of the pond as the primary outlet. A berm along the west side of the pond separates the pond from the road to the west; this berm serves as the secondary outlet and does overtop during the 100-year event. Table 2 below shows the existing and proposed flow rates out of the pond through these two outlets. The peak discharge through the primary outlet pipe is unchanged, the peak discharge when the

100-year overtops the berm does show as increasing slightly. This increase would occur for just 10-15 minutes before matching existing again.

Table 2. Existing and Proposed Discharge Rates

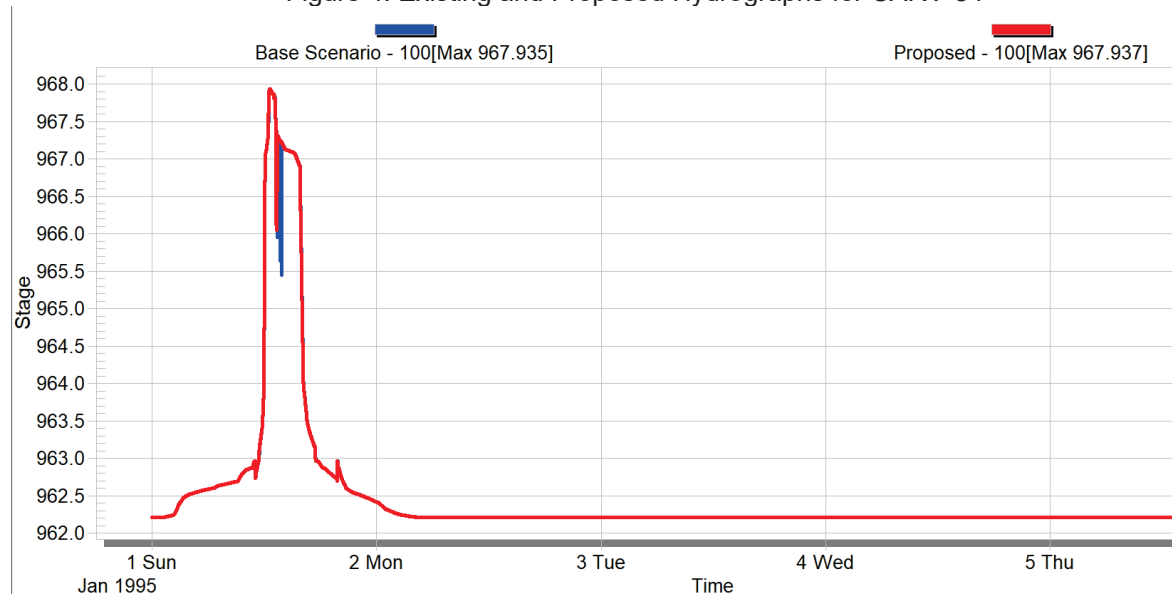
Outlet	Existing Peak Discharge (cfs)	Proposed Peak Discharge (cfs)
36-inch Pipe + Berm Overtopping	226	228

The results do show a slight increase in peak discharge rates doing west on Stratford Road towards Carver Lake between 1 and 2 cfs, depending on rounding. However, as stated above, this flow is expected to remain within the roadway due to the berm added on the west side of Woodlane Drive. To ensure the increase in flow does not have an adverse impact downstream, the peak water surface elevation is also reported at the next storage node downstream in the model, node CARV-84. Table 3 and figure 4 below show the HWL results at this node, demonstrating that the increase is 0.00 feet.

Table 3. Existing vs Proposed HWLs at CARV-84

Node	Existing HWL	Proposed HWL
CARV-84	967.94	967.94

Figure 4. Existing and Proposed Hydrographs for CARV-84



CONCLUSION

The results of the model indicate that the proposed grading and impacts to stormwater ponds CARV-85a and CARV-85b will have a less than 0.01 ft change in the 100-year HWL and will not adversely affect the floodplain. While there is an approximately 1 percent change in discharge rate out of the ponds, it is expected to be negligible and not have an impact on downstream peak flood elevations.

c: Chad Setterholm
Alec Babin

Permit Application Coversheet

Date July 10, 2024

Project Name Cottage Place Wetland Restoration

Project Number 24-36

Applicant Name Paige Ahlborg, RWMWD

Type of Development Wetland

Property Description

This project is located south of St. Odilia Church, west of Victoria Street North in the City of Shoreview. This is a RWMWD-led wetland restoration project resulting in approximately 5 acres of disturbance. Proposed activities include tree removal, removal of existing asphalt/concrete debris, restoration of degraded woodland, expansion of the existing wetland area, topsoil placement, and native seeding/planting. A new culvert is proposed in addition to rehabilitation of an existing culvert to prevent large rain events from causing drainage and erosion issues that occurs under existing conditions. The existing wetland (Type 1, Management Class C) received a delineation approval in December 2023 (#23-25 WCA) in addition to a no-loss/exemption approval in June 2024 (#24-06 WCA). A variance request for temporary disturbance to the wetland and its buffer is included with the application (Rule E). The proposed excavation and grading activities will result in a slight decrease in the 100-year High Water Level (HWL). No impervious area is proposed as a result of this project, thus permanent stormwater treatment is not required. The project is anticipated to result in an additional 1.15 acres of wetland (Type 2) that had been historically drained or filled.

Watershed District Policies or Standards Involved:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Wetlands | <input checked="" type="checkbox"/> Erosion and Sediment Control |
| <input type="checkbox"/> Stormwater Management | <input checked="" type="checkbox"/> Floodplain |

Water Quantity Considerations

The proposed grading and drainage plans are sufficient to handle the runoff from the site.

Water Quality Considerations

Short Term

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

Long Term

There are no long term water quality considerations.

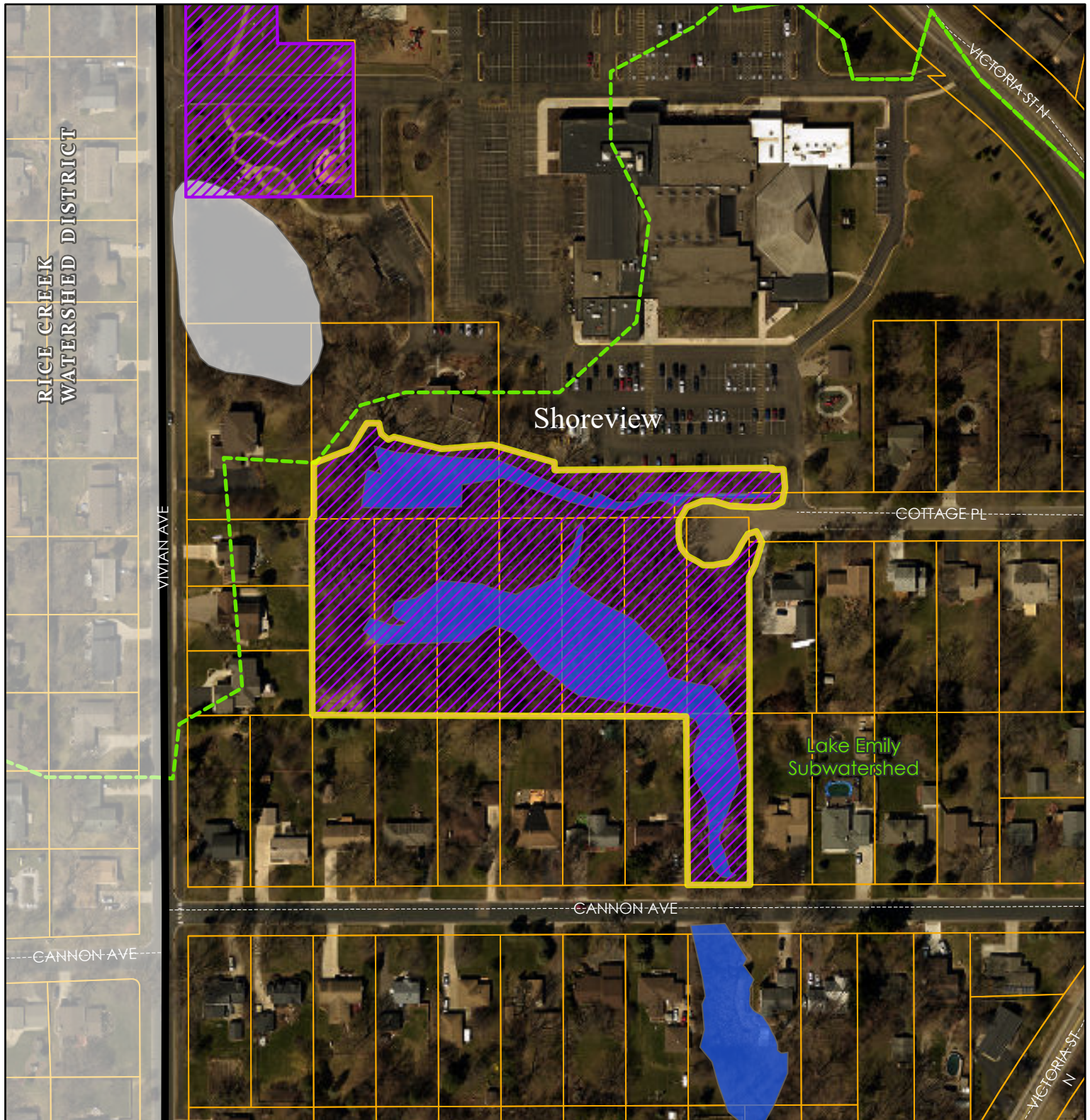
Staff Recommendation

Staff recommends approval of this permit with the special provision and variance request (Rule E).

Attachments:

- ☒ **Project Location Map**
- ☒ **Project Grading Plan**

#24-36 Cottage Place Wetland Restoration



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

Roads

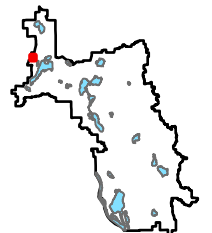
- Permits
- Cities
- Subwatersheds
- Ramsey Co Parcels
- RWMWD Boundary

Shaded area is outside RWMWD

Highlighted Areas
Represent Active Permit

0 0.03 0.06 Miles

0 200 400 US Feet

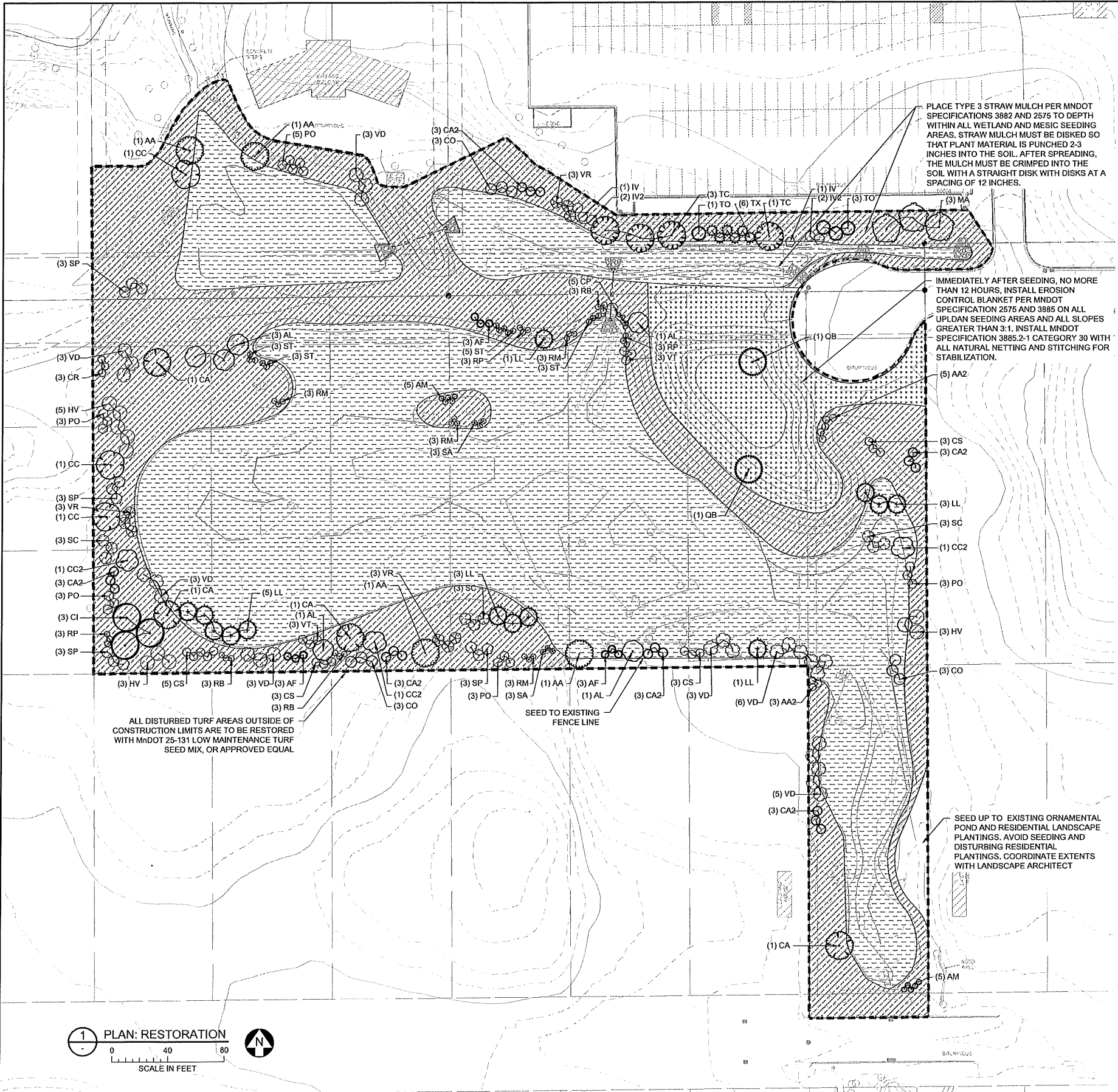


24-36

Special Provisions

1. The applicant shall submit a copy of the Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

CADD USER: BRENDAN H. DOUGHERTY FILE: M:\DESIGN\2621483\2621483_01_L-01 RESTORATION AND PLANTING PLANDWG PLOT SCALE: 1/2" = 40' DATE: 5/9/2024 9:13 AM



LEGEND:

- 950 EXISTING MAJOR CONTOUR
- 949 EXISTING MINOR CONTOUR
- WETLAND DELINEATION
- W EXISTING WATER
- SAN EXISTING SANITARY SEWER
- ST EXISTING STORM SEWER
- OE EXISTING OVERHEAD ELECTRIC
- PROPERTY LINE
- EXISTING FENCE
- CONSTRUCTION LIMITS
- EXISTING BUILDING
- EXISTING TREE
- MONUMENT
- 950 PROPOSED MAJOR CONTOUR
- 949 PROPOSED MINOR CONTOUR

- NOTES:**
- SEE L-02 FOR SEED MIX, PLUGS, AND GENERAL SITE RESTORATION NOTES.
 - SEE SHEET L-03 FOR TREE AND SHRUB PLANTING DETAILS.

PLANT SCHEDULE

SYMBOL	CODE	COMMON NAME	BOTANICAL NAME	SIZE	CONTAINER	QTY
TREES						
AL	AL	ALLEGHENY SERVICEBERRY	AMELANCHIER LAEVIS	#10	CONT.	6
CC2	CC2	AMERICAN HORNBEAM MULTI-TRUNK	CARPINUS CAROLINIANA	#10	CONT.	3
AA	AA	DOWNY SERVICEBERRY	AMELANCHIER ARBOREA	#10	CONT.	4
TC	TC	EASTERN HEMLOCK	TSUGA CANADENSIS	#10	CONT.	4
CC	CC	NORTHERN STRAIN EASTERN REDBUD	CERCIS CANADENSIS 'NORTHERN STRAIN'	#10	CONT.	3
CA	CA	PAGODA DOGWOOD	CORNUS ALTERNIFOLIA	#10	CONT.	4
MA	MA	SPRING SNOW CRABAPPLE	MALUS X 'SPRING SNOW'	#10	CONT.	3
QB	QB	SWAMP WHITE OAK	QUERCUS BICOLOR	#10	CONT.	2
LL	LL	TAMARACK	LARIX LARICINA	#10	CONT.	13
TX	TX	TAUNTON YEW	TAXUS X MEDIA 'TAUNTONI'	#10	CONT.	6
TO	TO	TECHNY ARBORVITAE	THUJA OCCIDENTALIS 'TECHNY'	#10	CONT.	4
CI	CI	THORNLESS COCKSPUR HAWTHORN	CRATAEGUS CRUS-GALLI INERMIS	#10	CONT.	3
SHRUBS						
VT	VT	AMERICAN CRANBERRYBUSH	VIBURNUM TRILOBUM	#5	CONT.	6
SC	SC	AMERICAN ELDERBERRY	SAMBUCUS CANADENSIS	#2	CONT.	9
CA2	CA2	AMERICAN HAZELNUT	CORYLUS AMERICANA	#5	CONT.	18
SP	SP	AMERICAN RED ELDER	SAMBUCUS PUBENS	#2	CONT.	12
AM	AM	BLACK CHOKEBERRY	ARONIA MELANOCARPA	#5	CONT.	10
CO	CO	BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS	#5	CONT.	9
PO	PO	COMMON NINEBARK	PHYSCARPUS OPULIFOLIUS	#5	CONT.	17
SA	SA	COMMON WHITE SNOWBERRY	SYMPHORICARPOS ALBUS	#2	CONT.	6
HV	HV	COMMON WITCH HAZEL	HAMAMELIS VIRGINIANA	#5	CONT.	11
VR	VR	DOWNY ARROWWOOD	VIBURNUM RAFINESQUIANUM	#2	CONT.	9
AF	AF	FALSE INDIGO	AMORPHA FRUTICOSA	#2	CONT.	9
IV	IV	JIM DANDY WINTERBERRY	ILEX VERTICILLATA 'JIM DANDY'	#5	CONT.	2
RB	RB	MEADOW ROSE	ROSA BLANDA	#5	CONT.	9
RM	RM	MISSOURI GOOSEBERRY	RIBES MISSOURIENSE	#5	CONT.	12
VD	VD	NANNYBERRY	VIBURNUM DENTATUM	#5	CONT.	26
IV2	IV2	RED SPRITE WINTERBERRY	ILEX VERTICILLATA 'NANA'	#5	CONT.	4
CS	CS	RED TWIG DOGWOOD	CORNUS SERICEA	#2	CONT.	14
CR	CR	ROUND-LEAVED DOGWOOD	CORNUS RUGOSA	#2	CONT.	3
AA2	AA2	SERVICEBERRY	AMELANCHIER ALNIFOLIA	#5	CONT.	8
ST	ST	STEEPLEBUSH	SPIRAEA TOMENTOSA	#2	CONT.	14
RP	RP	SWAMP ROSE	ROSA PALUSTRIS	#2	CONT.	9
CP	CP	SWEET FERN	COMPTONIA PEREGRINA	#5	CONT.	5

SEED		
WETLAND SEED MIX	118,169 SF	
MESIC SEED MIX	82,986 SF	
UPLAND SEED MIX	16,691 SF	

ISSUED FOR BID

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: BRENDAN H. DOUGHERTY
SIGNATURE: *Brendan H. Dougherty*
DATE: 05/09/2024 LICENSE # 54710

CLIENT PERMIT	04/2024
CONSTRUCTION RECORD	05/09/24
RELEASED TO/FOR	A B C 0 1 2 3
DATE RELEASED	

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
Ph: 1-800-632-2277
Fax: (612) 832-2601
www.barr.com

Scale: AS SHOWN
Date: 05/09/2024
Drawn: EMB
Checked: BHD
Designed: BARR
Approved: BHD

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

COTTAGE PLACE WETLAND RESTORATION
SHOREVIEW, MINNESOTA

RESTORATION AND PLANTING PLAN

BARR PROJECT No. 23/62-1493.00	
CLIENT PROJECT No.	
DWG. No. L-01	REV. No. 0

Upland			
Common Name	Scientific Name	PLS Rate (lb/ac)	% of Mix (by weight)
Sideoats Grama	<i>Bouteloua curtipendula</i>	1.75	4.8%
Blue Grama	<i>Bouteloua gracilis</i>	2.00	5.5%
Purple Love Grass	<i>Eragrostis spectabilis</i>	0.03	0.1%
June Grass	<i>Koeleria macrantha</i>	0.40	1.1%
Little Bluestem	<i>Schizachyrium scoparium</i>	2.50	6.9%
Prairie Dropseed	<i>Sporobolus heterolepis</i>	0.40	1.1%
	Grasses Subtotal	7.08	20%
Prairie onion	<i>Allium stellatum</i>	0.09	0.2%
Lead Plant	<i>Amorpha canescens</i>	0.08	0.2%
Pearly Everlasting	<i>Anaphalis margaritacea</i>	0.02	0.1%
Pasque Flower	<i>Anemone patens wolfgangiana</i>	0.05	0.1%
Pussytoes	<i>Antennaria plantaginifolia</i>	0.05	0.1%
Columbine	<i>Aquilegia canadensis</i>	0.09	0.2%
Purple Milkweed	<i>Asclepias purpurascens</i>	0.10	0.3%
Butterfly weed	<i>Asclepias tuberosa</i>	0.50	1.4%
Partridge Pea	<i>Chamaecrista fasciculata</i>	1.00	2.8%
Purple Prairie Clover	<i>Dalea purpureum</i>	0.10	0.3%
Narrow-Leaved Coneflower	<i>Echinacea angustifolia</i>	0.30	0.8%
Prairie Smoke	<i>Geum triflorum</i>	0.03	0.1%
Alum Root	<i>Heuchera richardsonii</i>	0.02	0.1%
Button Blazing Star	<i>Liatris aspera</i>	0.06	0.2%
Wild Lupine	<i>Lupinus perennis</i>	0.80	2.2%
Spotted Bee Balm	<i>Monarda punctata</i>	0.05	0.1%
Large-flowered Beardtongue	<i>Pensstemon grandiflorus</i>	0.10	0.3%
Black-Eyed Susan	<i>Rudbeckia hirta</i>	0.06	0.2%
Compass Plant	<i>Silphium laciniatum</i>	0.50	1.4%
Gray Goldenrod	<i>Solidago nemoralis</i>	0.01	0.0%
Aromatic aster	<i>Symphoricarichum oblongifolium</i>	0.04	0.1%
Prairie Spiderwort	<i>Tradescantia bracteata</i>	0.06	0.2%
	Forbs Subtotal	4.11	11%
Oats (April-August) Winter Wheat (Sept.-Nov)	<i>Avena sativa</i>	25.00	69.1%
	Total Cover Crop	25.00	69%
	Total	36.19	100%

Mesic			
Common Name	Scientific Name	PLS Rate (lb/ac)	% of Mix (by weight)
Big Bluestem	<i>Andropogon gerardii</i>	1.00	2.3%
Kalm's Brome	<i>Bromus kalmii</i>	0.50	1.1%
Hairy Wood Chess	<i>Bromus pubescens</i>	1.00	2.3%
Riverbank Wild Rye	<i>Elymus riparius</i>	1.00	2.3%
Silky wild rye	<i>Elymus villosus</i>	0.75	1.7%
Virginia Wild Rye	<i>Elymus virginicus</i>	0.50	1.1%
Fowl Manna Grass	<i>Glyceria striata</i>	0.06	0.1%
Switchgrass	<i>Panicum virgatum</i>	0.80	1.8%
Little Bluestem	<i>Schizachyrium scoparium</i>	1.80	4.1%
Indian Grass	<i>Sorghastrum nutans</i>	0.75	1.7%
Prairie Cordgrass	<i>Spartina pectinata</i>	0.30	0.7%
	Grasses Subtotal	8.46	19%
Common Wood Sedge	<i>Carex blanda</i>	0.12	0.3%
Plains Oval Sedge	<i>Carex brevior</i>	0.15	0.3%
Ivory Sedge	<i>Carex eburnea</i>	0.13	0.3%
Field Oval Sedge	<i>Carex molestus</i>	0.13	0.3%
Palm Sedge	<i>Carex muskingumensis</i>	0.20	0.5%
Wooly Sedge	<i>Carex pellita</i>	0.30	0.7%
Long-beaked Sedge	<i>Carex sprengei</i>	0.30	0.7%
Fox Sedge	<i>Carex vulpinoidea</i>	0.08	0.2%
Path Rush	<i>Juncus tenuis</i>	0.05	0.1%
	Sedges & Rushes Subtotal	1.45	3%
Frustrant Hyssop	<i>Agastache foeniculum</i>	0.05	0.1%
Canada Anemone	<i>Anemone canadensis</i>	1.00	2.3%
Tall Thimbleweed	<i>Anemone virginiana</i>	0.19	0.4%
Columbine	<i>Aquilegia canadensis</i>	0.19	0.4%
Jack-in-the-Pulpit	<i>Arisaema triphyllum</i>	3.00	6.9%
Butterfly Milkweed	<i>Asclepias tuberosa</i>	0.10	0.2%
Whorled Milkweed	<i>Asclepias verticillata</i>	0.03	0.1%
Tall Bellflower	<i>Campanula americana</i>	0.15	0.3%
Partridge Pea	<i>Chamaecrista fasciculata</i>	1.00	2.3%
Big-leaved Aster	<i>Eurybia macrophylla</i>	0.08	0.2%
Wild Geranium	<i>Geranium maculatum</i>	0.13	0.3%
Ox-eye	<i>Helianthus laetiflorus</i>	0.04	0.1%
Virginia Waterleaf	<i>Hydrophyllum virginianum</i>	0.06	0.1%
Rough Blazing Star	<i>Liatris aspera</i>	0.05	0.1%
Meadow Blazing Star	<i>Liatris ligulistylis</i>	0.05	0.1%
Cardinal Flower	<i>Lobelia cardinalis</i>	0.06	0.1%
Great Blue Lobelia	<i>Lobelia siphilitica</i>	0.06	0.1%
Wild Lupine	<i>Lupinus perennis</i>	0.60	1.4%
Solomon's Plume	<i>Malanthemum racemosum</i>	0.50	1.1%
Wild Mint	<i>Mentha arvensis</i>	0.01	0.0%
Wild Bergamot	<i>Monarda fistulosa</i>	0.03	0.1%
Solomon's Seal	<i>Polygonatum biflorum</i>	0.31	0.7%
Virginia mountain mint	<i>Pycnanthemum virginianum</i>	0.04	0.1%
Black-eyed Susan	<i>Rudbeckia hirta</i>	0.31	0.7%
Zig Zag Goldenrod	<i>Solidago flexicaulis</i>	0.05	0.1%
	<i>Symphoricarum cordifolium</i>	0.19	0.4%
Heart-leaved Aster	<i>Symphoricarum laeve</i>	0.04	0.1%
Smooth Aster	<i>Thalictrum dasycarpum</i>	0.13	0.3%
Tall Meadow Rue	<i>Thalictrum dioicum</i>	0.20	0.5%
Early Meadow Rue	<i>Thalictrum ohiensis</i>	0.02	0.0%
Ohio Spiderwort	<i>Zizia aurea</i>	0.10	0.2%
Heart-leaf Golden Alexanders			
	Forbs Subtotal	8.77	20%
Oats (April-August)	<i>Avena sativa</i>	25.00	57.2%
Winter Wheat (Sept.-Nov)			
	Total Cover Crop	25.00	57%
	Total	43.68	100.0%

Wetland			
Common Name	Scientific Name	PLS Rate (lb/ac)	% of Mix (by weight)
Big Bluestem	<i>Andropogon gerardii</i>	0.75	5.2%
Canada Blue Joint Grass	<i>Calamagrostis canadensis</i>	0.10	0.7%
Canada Wild Rye	<i>Elymus canadensis</i>	0.50	3.4%
Riverbank Wild Rye	<i>Elymus riparius</i>	0.50	3.4%
American Manna Grass	<i>Glyceria grandis</i>	0.25	1.7%
Fowl Manna Grass	<i>Glyceria striata</i>	0.20	1.4%
Rice Cut Grass	<i>Leersia oryzoides</i>	0.25	1.7%
Fowl Bluegrass	<i>Poa palustris</i>	0.40	2.8%
Prairie Cordgrass	<i>Spartina pectinata</i>	0.75	5.2%
	Grasses Subtotal	3.70	25.5%
Common Wood Sedge	<i>Carex blanda</i>	0.10	0.7%
Plains Oval Sedge	<i>Carex brevior</i>	0.08	0.6%
Crested Oval Sedge	<i>Carex cristatella</i>	0.12	0.8%
Slender Wood Sedge	<i>Carex gracilescens</i>	0.08	0.6%
Wood Gray Sedge	<i>Carex grisea</i>	0.13	0.9%
Lake Sedge	<i>Carex lacustris</i>	0.13	0.9%
Field Oval Sedge	<i>Carex mollesta</i>	0.10	0.7%
Wooly Sedge	<i>Carex pellita</i>	0.08	0.6%
Long-beaked Sedge	<i>Carex sprengelii</i>	0.13	0.9%
Tussock Sedge	<i>Carex stricta</i>	0.04	0.3%
Fox Sedge	<i>Carex vulpinoidea</i>	0.30	2.1%
Great Spike Rush	<i>Eleocharis palustris</i>	0.13	0.9%
Common Rush	<i>Juncus effusus</i>	0.08	0.6%
Green Bulrush	<i>Scirpus atrovirens</i>	0.40	2.8%
Wool Grass	<i>Scirpus cyperinus</i>	0.08	0.6%
	Sedges & Rushes Subtotal	1.98	13.6%
Red Banberry	<i>Actaea rubra</i>	0.15	1.0%
Angelica	<i>Angelica atropurpurea</i>	0.09	0.6%
Swamp Milkweed	<i>Asclepias incarnata</i>	0.40	2.8%
Bur Marigold	<i>Bidens cernua</i>	0.13	0.9%
Beggarticks	<i>Bidens frondosa</i>	0.15	1.0%
False Aster	<i>Boltonia asteroides</i>	0.06	0.4%
Flat-Topped Aster	<i>Doellingeria umbellata</i>	0.03	0.2%
Rattlesnake Master	<i>Eryngium yuccifolium</i>	0.40	2.8%
Boneset	<i>Eupatorium perfoliatum</i>	0.15	1.0%
Grass-Leaved Goldenrod	<i>Euthamia graminifolia</i>	0.02	0.1%
Joe-Pye Weed	<i>Eutrochium maculatum</i>	0.08	0.6%
Sneezeweed	<i>Helenium autumnale</i>	0.08	0.6%
Sawtooth Sunflower	<i>Helianthus grosseserratus</i>	0.06	0.4%
Spotted Touch Me Not	<i>Impatiens capensis</i>	0.10	0.7%
Cardinal Flower	<i>Lobelia cardinalis</i>	0.06	0.4%
Great Blue Lobelia	<i>Lobelia siphilitica</i>	0.06	0.4%
Fringed Loosestrife	<i>Lysimachia ciliata</i>	0.04	0.3%
Swamp Candles	<i>Lysimachia terrestris</i>	0.04	0.3%
Monkey Flower	<i>Mimulus ringens</i>	0.05	0.3%
Virginia mountain mint	<i>Pycnanthemum virginianum</i>	0.04	0.3%
New England Aster	<i>Symphoricarichum novae-angliae</i>	0.08	0.6%
Ironweed	<i>Vernonia fasciculata</i>	0.10	0.7%
Culver's Root	<i>Veronicastrum virginicum</i>	0.06	0.4%
Golden Alexander	<i>Zizia aurea</i>	0.40	2.8%
	Forbs Subtotal	2.83	19.5%
Oats (April-August)	<i>Avena sativa</i>	6.00	41.4%
Winter Wheat (Sept.-Nov.)	<i>Triticum</i>		
	Grain Crop	6.00	41.4%
	Total	14.51	100.0%

Plugs			
Common Name	Scientific Name	Size	Quantity
Sweetflag	<i>Acorus calamus</i>	Plug	54
Red Baneberry	<i>Actaea rubra</i>	Plug	36
Lead Plant	<i>Amorpha canescens</i>	Plug	24
Columbine	<i>Aquilegia canadensis</i>	Plug	54
Spikenard	<i>Aralia racemosa</i>	Plug	36
Jack-in-the-Pulpit	<i>Arisaema triphyllum</i>	Plug	54
Wild Ginger	<i>Asarum canadense</i>	Plug	90
Purple Milkweed	<i>Asclepias purpurascens</i>	Plug	24
White Wild Indigo	<i>Baptisia alba</i>	Plug	18
Marsh marigold	<i>Caltha palustris</i>	Plug	24
Bebb's Sedge	<i>Carex bebbii</i>	Plug	54
Ivory Sedge	<i>Carex eburnea</i>	Plug	96
Common Bur Sedge	<i>Carex grayi</i>	Plug	54
Porcupine Sedge	<i>Carex hystericina</i>	Plug	54
Pennsylvania Sedge	<i>Carex pensylvanica</i>	Plug	54
Palm Sedge	<i>Carex muskingumensis</i>	Plug	54
Fox Sedge	<i>Carex vulpinoidea</i>	Plug	96
Blue Cohosh	<i>Caulophyllum thalictroides</i>	Plug	24
Purple Prairie Clover	<i>Dalea purpurea</i>	Plug	24
Elliptic Spikerush	<i>Eleocharis elliptica</i>	Plug	54
Rattlesnake Master	<i>Eryngium yuccifolium</i>	Plug	54
Dudley's rush	<i>Juncus dudleyi</i>	Plug	24
Torrey's Rush	<i>Juncus torreyi</i>	Plug	24
Wild Golden Glow	<i>Rudbeckia laciniata</i>	Plug	54
Bloodroot	<i>Sanguinaria canadensis</i>	Plug	54
Bellwort	<i>Uvularia grandiflora</i>	Plug	36
		Total	1224

GENERAL LANDSCAPE NOTES:

1. PLANTING SHALL CONFORM TO MNDOT SPEC 2571, PLANT INSTALLATION AND ESTABLISHMENT, EXCEPT AS INDICATED OTHERWISE IN THE SPECIFICATIONS.
2. INFORM THE LANDSCAPE ARCHITECT OF PLANTING PRIOR TO PLANT DELIVERY.
3. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL PLANTS WITH DIRECTION OF LANDSCAPE ARCHITECT IN THE FIELD. PLUGS TO BE PLACED IN THE FIELD WITH DIRECTION FROM LANDSCAPE ARCHITECT.
4. CONFIRM ALL QUANTITIES, SHAPES AND LOCATIONS OF SEEDING AND PLANTING AREAS; ADJUST QUANTITIES AS REQUIRED TO CONFORM TO THE SITE CONDITIONS. CONFIRM ANY ADJUSTMENTS WITH THE LANDSCAPE ARCHITECT.
5. LOCATE ALL UTILITIES. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH PLANTING.
6. LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED, ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE HEELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
7. THE PLAN TAKES PRECEDENCE OVER THE PLANT SCHEDULE IF DISCREPANCIES EXIST. ADVISE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
8. IMMEDIATELY AFTER SEEDING, NO MORE THAN 12 HOURS, INSTALL EROSION CONTROL PRODUCTS, PER MNDOT SPECIFICATION 2575.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL PLANTING, RESTORATION, AND MAINTENANCE INFORMATION. IN THE CASE OF ANY DISCREPANCIES BETWEEN THE DETAILS, PLANS, OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.

PROTECTIONS:

10. THE CONTRACTOR SHALL AVOID DAMAGING EXISTING TREES. DO NOT STORE OR DRIVE HEAVY MATERIALS OVER TREE ROOTS. DO NOT DAMAGE TREE BARK OR BRANCHES.
11. THE CONTRACTOR SHALL KEEP PAVEMENTS, FIXTURES AND BUILDINGS CLEAN AND UNSTAINED. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE PROJECT SITE SHALL BE KEPT CLEAR OF CONSTRUCTION WASTES AND DEBRIS.

SEEDING:

12. ALL EXOTIC INVASIVE PLANTS AND WEEDS WITHIN THE SEEDING AREAS SHALL BE SPRAYED WITH HERBICIDE 14 DAYS PRIOR TO SEEDING OR AS PER MANUFACTURE'S RECOMMENDATION. SIGNAGE INDICATING THE USE OF HERBICIDES MUST BE POSTED ON SITE.
13. ALL HERBICIDE APPLICATION SHALL BE APPLIED BY A LICENSED APPLICATOR WITHIN THE STATE OF MINNESOTA.
14. SEED IN ACCORDANCE WITH THE SPECIFICATIONS.
15. COVER CROP IS TO BE SEED WITH ALL AREAS.
16. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN THE CASE OF ANY DISCREPANCIES BETWEEN THIS DETAIL, PLANS, OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.

MAINTENANCE AND CARE:

17. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PORTION OF THE WORK IS IN PLACE. PLANT MATERIAL SHALL BE PROTECTED AND MAINTAINED UNTIL THE INSTALLATION OF PLANTINGS IS COMPLETE. INSPECTION HAS BEEN MADE AND PLANTING IS ACCEPTED EXCLUSIVE OF THE GUARANTEE.
18. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, MULCHING, REMOVAL OF DEAD MATERIAL PRIOR TO GROWING SEASON, RE-SETTING PLANTS AND PROPER GRADE, AND KEEPING PLANTS IN A PLUMB POSITION.
19. WATERING: MAINTAIN A WATERING SCHEDULE WHICH WILL THOROUGHLY WATER ALL PLANTS ONE A WEEK, IN EXTREMELY HOT, DRY WEATHER, WATER MORE OFTEN AS REQUIRED BY INDICATIONS OF HEAT STRESS SUCH AS WILTING LEAVES. CHECK MOISTURE UNDER MULCH PRIOR TO WATERING TO DETERMINE NEED. CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR WATER. WATERING WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
20. ALL AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE MANAGED AND MAINTAINED PER THE SPECIFICATIONS.

SOIL LOOSENING & AMENDMENT REQUIREMENTS:

21. ANY COMPACTION OF PREVIOUSLY LOOSENOED SOIL MUST BE RELOOSENED PRIOR TO TOPSOILING OR PLANT INSTALLATION. FINISH GRADE AND POWER ROTO-TILL ALL DISTURBED AREAS PER MMDOT2574.3.A.4.
22. NO RUBBER Tired EQUIPMENT IN SEEDING AREAS; LOW GROUND PRESSURE TRACKED EQUIPMENT ONLY. ANY COMPACTION OF NATIVE SOILS OR PREVIOUSLY LOOSENOED SOIL MUST BE LOOSENED.
23. ANY SOILS DISTURBED THROUGH GRADING OR COMPACTED DUE TO CONSTRUCTION SHALL BE LOOSENED BEFORE FINAL PLANTING. CONTRACTOR IS TO USE A COMPACTION TESTER TO ENSURE COMPACTION IN PLANTING HOLES AND IN SEEDING AREAS DOES NOT EXCEED 200 PSI TO A DEPTH OF AT LEAST 16 INCHES. LOOSENING OF COMPACTED AREAS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

-	-	-	-		*
NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR
REPORT WAS PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY LICENSED
LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE
OF MINNESOTA.

PRINTED NAME BRENDAN H. DOUGHERTY

SIGNATURE *Brendan Dougherty*

DATE 05/09/2024 LICENSE # 54710

CLIENT	04/24/24						
PERMIT							
BID				05/02/24			
CONSTRUCTION							
RECORD							
RELEASED TO/FOR	A	B	C	0	1	2	3
	DATE RELEASED						



Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	05/09/2024
Drawn	EMB
Checked	BHD
Designed	BARR
Approved	BHD



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

COTTAGE PLACE WETLAND RESTORATION SHOREVIEW, MINNESOTA	
RESTORATION AND PLANTING NOTES	
-	

BARR PROJECT No. 23/62-1493.00	
CLIENT PROJECT No.	
DWG. No. L-02	REV. No. 0

CADD USER: JOSH PHILLIPS FILE: M:\DESIGN\23621493.00\L-02 RESTORATION AND PLANTING NOTES.DWG PLOT SCALE: 1:2 PLOT DATE: 5/8/2024 5:20 PM

Technical Memorandum

To: Nicole Maras – Ramsey Washington Metro Watershed District (RWMWD)
From: Brendan Dougherty, Erin Anderson Wenz – Barr Engineering Co. (Barr)
Subject: Wetland Buffer Variance Request for Cottage Place Wetland Restoration Project
Date: July 25, 2024
Project: 23621493

This memorandum has been prepared to request a variance from Rule E of the Ramsey Washington Metro Watershed District (RWMWD) rules, specifically the requirement for a no-disturb wetland buffer and for minimum wetland buffer widths for delineated wetlands 1a, 1b, and 3 located within the project area (Figure 1).

Variance Request 1 - Wetland Buffer Disturbance

As detailed in the Combined Permit Application submitted to RWMWD on May 10, 2024, and revised on July 25, 2025, RWMWD is proposing to perform a wetland restoration project that will involve grading, stormwater improvements, and vegetation restoration within existing wetland buffer widths for wetlands classified as type Manage C.

The purpose of the proposed project is to eradicate invasive species, remove soil debris, and regrade soils to stabilize slopes and expand existing wetland boundaries (to restore previously filled historic wetlands). As shown on the attached drawing C-02 (the complete plan set was provided as part of the Combined Permit Application) grading, placement of stormwater culvers, and placement of riprap will occur within existing wetland and wetland buffers. In order to expand existing wetland boundaries, remove debris, and to stabilize soils impacts within the wetland and wetland buffer is unavoidable and, therefore, the proposed project will result in a temporary, no-loss impact to the wetland and wetland buffer. A summary of impacts within the wetland is shown in the table below:

Table 1 Summary of Proposed Work Within Wetlands

Wetland ID	Impact Circular 39 type	Impact Cowardin classification	Eggers and Reed community	Type of Impact	Wetland Impact (SF)
Wetland 1a	1	PFO1A	Seasonally flooded forested	Permanent riprap fill	175
Wetland 1a	1	PFO1A	Seasonally flooded forested	Excavation of partially disturbed soils	3,903
Wetland 1b	1	PF01A	Seasonally flooded forested	Permanent riprap fill	70
Wetland 1b	1	PF01A	Seasonally flooded forested	Excavation of sediment and debris	1,805
Wetland 1b	1	PF01A	Seasonally flooded forested	Excavation of partially disturbed soils	7,227
Wetland 3	1	PFO1A	Seasonally flooded forested	Permanent riprap fill	7
Total				fill	252
Total				excavation	12,935

However, the project will achieve a no-net loss in the quantity, quality, and biological diversity of the existing wetlands and buffers within the project area. The project will result in additional wetland area and an improvement to the wetland and its associated buffer vegetation in the final condition. Impacts that are intended to improve the function of the wetland are discussed below.

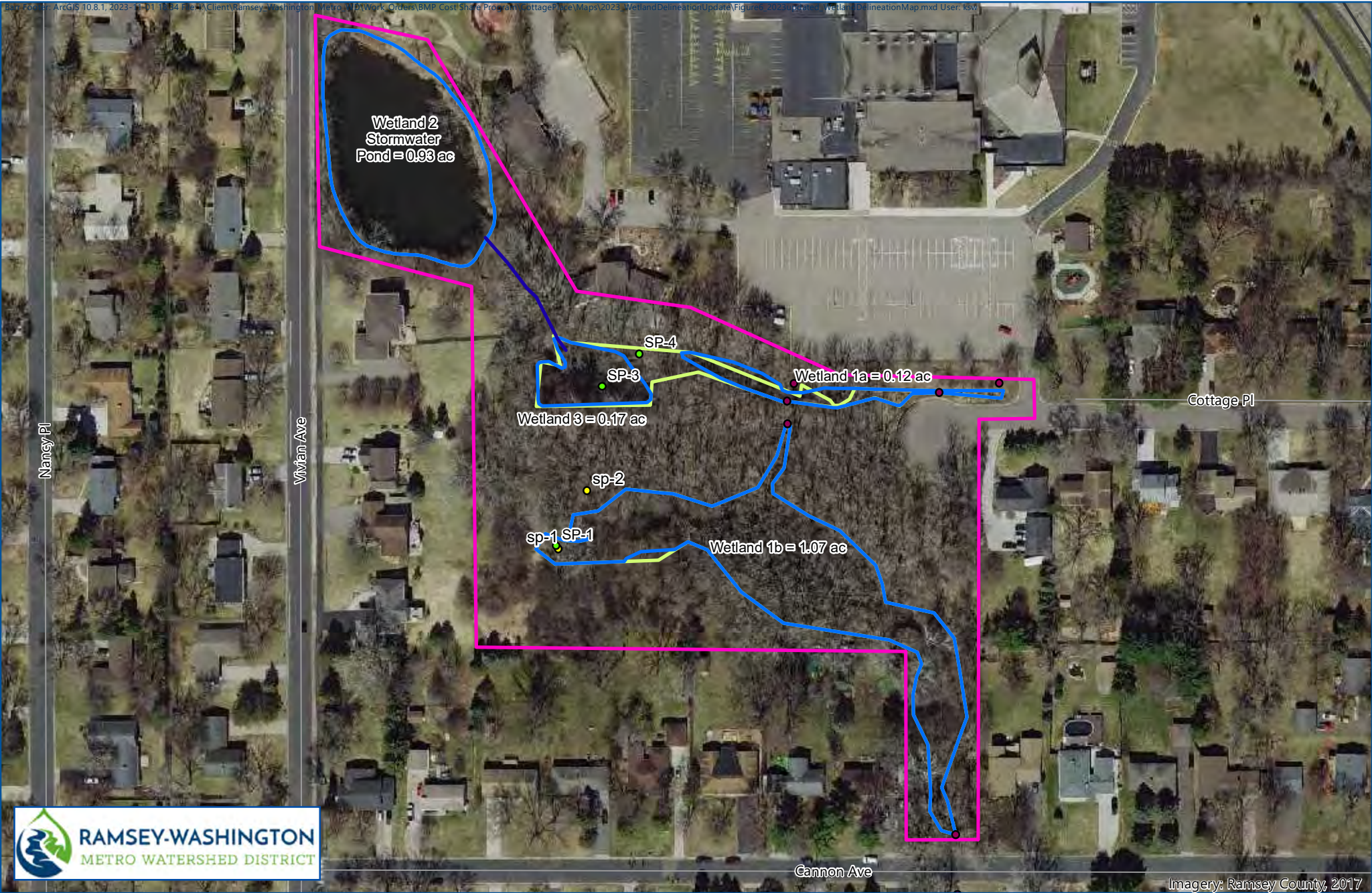
The permanent fill for new riprap will be placed in areas of culvert connections to protect the wetland and prevent scouring. This fill is within the allowable WCA de minimis exemption. Excavation of sediment and debris will provide restoration in a portion of Wetland 1b which has become channelized by surrounding fill material. Debris and fill material beyond of the delineated wetland will be removed to level the grade and restore the area to its original wet/sedge meadow community. Additional excavation along the edges of Wetland 1b includes partially disturbed soils with accumulated sediment, fill soils, and debris that have been substantially degraded by partial drainage or fill and will be lowered in these locations to match surrounding upland excavation. Excavation of sediment, debris, and partially disturbed soils is allowable as WCA no-loss activity. A Joint Application form has been submitted to request WCA no-loss and exemption approval for activity within the wetland areas. The entirety of the project property will be restored with native vegetation as shown in the construction plans.

The project is anticipated to result in a total of 50,184 SF of additional area seeded with wetland species, in areas that were historically wetland, but have become completely drained or filled. The proposed wetland plant community will replace the existing low diversity cover that is either bare soil or comprised primarily of non-native invasive species. A 3-year vegetation maintenance regime is included as part of the contract to help manage invasive species and establish a more diverse native plant community. Similarly, invasive species within the buffer and upland areas within the project area will be eradicated and a native plant community will be promoted.

During construction activities, erosion control measures will be implemented to protect the wetland in accordance with the Stormwater Pollution Prevention Plan (SWPPP) that was developed for the project and was included with the permit drawings submitted as part of the Combined Permit Application.

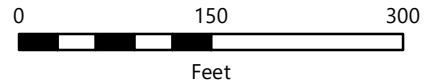
Variance Request 2 - Minimum Wetland Buffer Widths

Wetlands within the project area have been classified as Manage C and require a minimum buffer width of 12.5 feet. Figure 2 shows areas where this minimum buffer width cannot be met because they extend beyond property boundaries into existing private property or into existing streets. Cottage Place is an existing impervious surface and private residential properties with turf grass are located within the minimum wetland buffer width. The average wetland buffer width requirement of 25 feet will be restored with a native seed mix and no variance for this average width is requested.



Imagery: Ramsey County, 2017

- 2023 Sample Point
- 2018 Sample Point
- Inlet Outlet Features
- Drainage Channel
- Wetland Delineation 2023 Update
- 2018 Wetland Delineation
- Wetland Evaluation Area



2023 UPDATE: WETLAND DELINEATION
Cottage Place Wetland
Ramsey-Washington Metro
Watershed District
FIGURE 1

Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit: Ramsey-Washington Metro Watershed District (RWMWD) County: Ramsey
Applicant Name: Tina Carstens (RWMWD) Applicant Representative: Brendan Dougherty (Barr Engineering)
Project Name: Cottage Place LGU Project No. (if any): 23-25 WCA
Date Complete Application Received by LGU: 11/7/2023
Date of LGU Decision: 12/1/2023
Date this Notice was Sent: 12/7/2023

WCA Decision Type - check all that apply

<input checked="" type="checkbox"/> Wetland Boundary/Type <input type="checkbox"/> Sequencing <input type="checkbox"/> Replacement Plan <input type="checkbox"/> Bank Plan (not credit purchase) <input type="checkbox"/> No-Loss (8420.0415) <input type="checkbox"/> Exemption (8420.0420)
Part: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9

Replacement Plan Impacts (replacement plan decisions only)

Total WCA Wetland Impact Area:
Wetland Replacement Type: <input type="checkbox"/> Project Specific Credits: <input type="checkbox"/> Bank Credits:
Bank Account Number(s):

Technical Evaluation Panel Findings and Recommendations (attach if any)

<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input type="checkbox"/> No TEP Recommendation
<p>TEP member Emily Deering (Ramsey County) submitted written comment on 11/21/23 that there was concern that Wetland 1A/Wetland 3 had reduced in size from the approved 2018 delineation.</p> <p>A field visit was completed with Nicole Maras (RWMWD- LGU), Alexis Lipstein (Ramsey County), Ben Meyer (BWSR), and Karen Wold (Barr) on 11/14/23. The same issue was discussed onsite, however it was observed that there is an upland separation between Wetlands 1A and Wetland 3, and that the GPS data points from 2018 did not accurately reflect this. The 2023 delineation figure appeared consistent with field conditions, and no changes were requested to the current report.</p>

LGU Decision

<input type="checkbox"/> Approved with Conditions (specify below)¹ <input checked="" type="checkbox"/> Approved¹ <input type="checkbox"/> Denied List Conditions:
Decision-Maker for this Application: <input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other:
Decision is valid for: <input checked="" type="checkbox"/> 5 years (default) <input type="checkbox"/> Other (specify):

¹ *Wetland Replacement Plan approval is not valid until BWSR confirms the withdrawal of any required wetland bank credits. For project-specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms have been recorded on the title of the property on which the replacement wetland is located must be provided to the LGU for the approval to be valid.*

LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision¹.

- ☐ Attachment(s) (specify):
☒ Summary: **See TEP Findings and Recommendations.**

¹ Findings must consider any TEP recommendations.

Attached Project Documents

- ☒ Site Location Map ☒ Project Plan(s)/Descriptions/Reports (specify): **Figure 6**

Appeals of LGU Decisions

If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator
Minnesota Board of Water & Soils Resources
520 Lafayette Road North
St. Paul, MN 55155
travis.germundson@state.mn.us

Does the LGU have a local appeal process applicable to this decision?

- ☐ Yes¹ ☒ No

¹If yes, all appeals must first be considered via the local appeals process.

Local Appeals Submittal Requirements (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

Notice Distribution (include name)

Required on all notices:

<input checked="" type="checkbox"/> SWCD TEP Member: Alexis Lipstein (Ramsey County)	<input checked="" type="checkbox"/> BWSR TEP Member: Ben Meyer
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):	
<input checked="" type="checkbox"/> DNR Representative: Jim Levitt	
<input checked="" type="checkbox"/> Watershed District or Watershed Mgmt. Org.:	
<input checked="" type="checkbox"/> Applicant (notice only): <input checked="" type="checkbox"/> Agent/Consultant (notice only): Karen Wold (Barr Engineering)	

Optional or As Applicable:

<input type="checkbox"/> Corps of Engineers:	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input checked="" type="checkbox"/> Other: Mary Fitzgerald/Paige Ahlborg (RWMWD)

Signature: 	Date: 12/7/2023
--	---------------------------

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.

☒ Site Location Map ☐ Project Plan(s)/Descriptions/Reports (specify):

Appeals of LGU Decisions

If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator
Minnesota Board of Water & Soils Resources
520 Lafayette Road North
St. Paul, MN 55155
travis.germundson@state.mn.us

Does the LGU have a local appeal process applicable to this decision?

☐ Yes¹ ☒ No

¹If yes, all appeals must first be considered via the local appeals process.

Local Appeals Submittal Requirements (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

Notice Distribution (include name)

Required on all notices:

<input checked="" type="checkbox"/> SWCD TEP Member: Alexis Lipstein (Ramsey County)	<input checked="" type="checkbox"/> BWSR TEP Member: Ben Meyer
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):	
<input checked="" type="checkbox"/> DNR Representative: Jim Levitt	
<input checked="" type="checkbox"/> Watershed District or Watershed Mgmt. Org.:	
<input checked="" type="checkbox"/> Applicant (notice only): <input checked="" type="checkbox"/> Agent/Consultant (notice only): Karen Wold/Erin Anderson-Wenz (Barr Engineering)	

Optional or As Applicable:

<input checked="" type="checkbox"/> Corps of Engineers:	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input checked="" type="checkbox"/> Other: Mary Fitzgerald/Kendra Kloth/Paige Ahlborg (RWMWD)

Signature:

Nicole Maras

Date: 6/12/2024

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: July 10th, 2024

To: Board of Managers and Staff

From: Nicole Maras, Regulatory Program Manager
Mary Fitzgerald, Regulatory Specialist
Kendra Kloth, Inspector Intern

Subject: June Enforcement Action Report

During June 2024:

Number of Violations:	21
Install/Maintain Perimeter Control	5
Observed Sediment Discharge	5
Stabilize Exposed Soils	4
Install/Maintain Inlet Protection	2
Clean Out Temporary Sediment Basin	2
Install/Maintain Construction Entrance	1
Install/Maintain Up-Gradient BMPs	1
Implement Proper Dewatering	1

Permit Program- Activities, Trainings, and Coordination Meetings:

Permit site inspections and progress meetings, meetings with permit applicants, rule guidance assistance and inquiries, Wetland Conservation Act (WCA) administration & procedures, permit submittal reviews with Barr Engineering, initial erosion control walk-throughs at newly active sites, WaterFest, Watershed Equity Alliance Summer Retreat, Confined Space Entry training, PaveDrain discussion, Employee Right-To-Know training, Water Quality Intern shadowing permit team, Gold Line BMP installation meeting, vegetation establishment checks, The Heights inspections check-in meeting, DEIA work-group monthly meeting, CPR/First Aid training, Program Managers meeting, GEOPaths Youth Crew career chat at St. Croix Watershed Research Station, MN Watersheds Conference Summer Tour, Wetland Floristic Quality Assessment training

Single Lot Residential Permits Approved by Staff:

None

Permits Closed:

- 19-32 St. Paul Urban Tennis Courts (St. Paul)
- 20-39 Midland Terrace Phase 1 (Shoreview)
- 23-07 White Bear Lake High School South Baseball Field (White Bear Lake)

Project Updates:

Staff conduct vegetation establishment inspections as part of the permit close-out process. These inspections are at the end of a project, when all disturbed land has been restored. Staff are looking for landscaping to match approved plans, uniform growth throughout all seeded areas, and a dominance of intended perennial plants. Permits remain open until sites meet the criteria listed above.

The past couple years were tough going for good growth due to the drought, but the frequent rain events this year have been helpful in achieving good vegetation cover. Here are a couple examples of good vegetation growth:



Program Updates:

Get to Know Permit Inspector Intern Kendra!



Hi board members, my name is Kendra, and I am the Permit Inspector Intern this summer. I graduated from the University of Minnesota-Twin Cities this past spring with my Bachelor's of Science in Ecology, Evolution, & Behavior, including minors in Sustainable Studies and Sustainable Agriculture. During my studies I worked for the Department of Agronomy and Plant Genetics at the University, researching disease resistance in hop plants. I also worked at the University of Minnesota Genomic Center as a lab aide, and at the Cedar Creek Ecosystem Science Reserve as an intern with the Isbell Biodiversity Lab. I am very passionate about the outdoors-- some of my hobbies include hiking, hammocking, and kayaking. I also love to cook, bake, read, paint, and lift weights.

What I enjoy most about my internship so far is inspecting many different projects and feeling that I make an impact on sites' environmental compliance efforts! Here is a photo of me visiting Minnehaha Regional Park!

Permitting and Inspections



Nicole Maras

she/her

Regulatory Program Manager



Mary Fitzgerald

she/her

Regulatory Specialist

Nicole and Mary have received new titles and are now the Regulatory Program Manager and Regulatory Specialist!

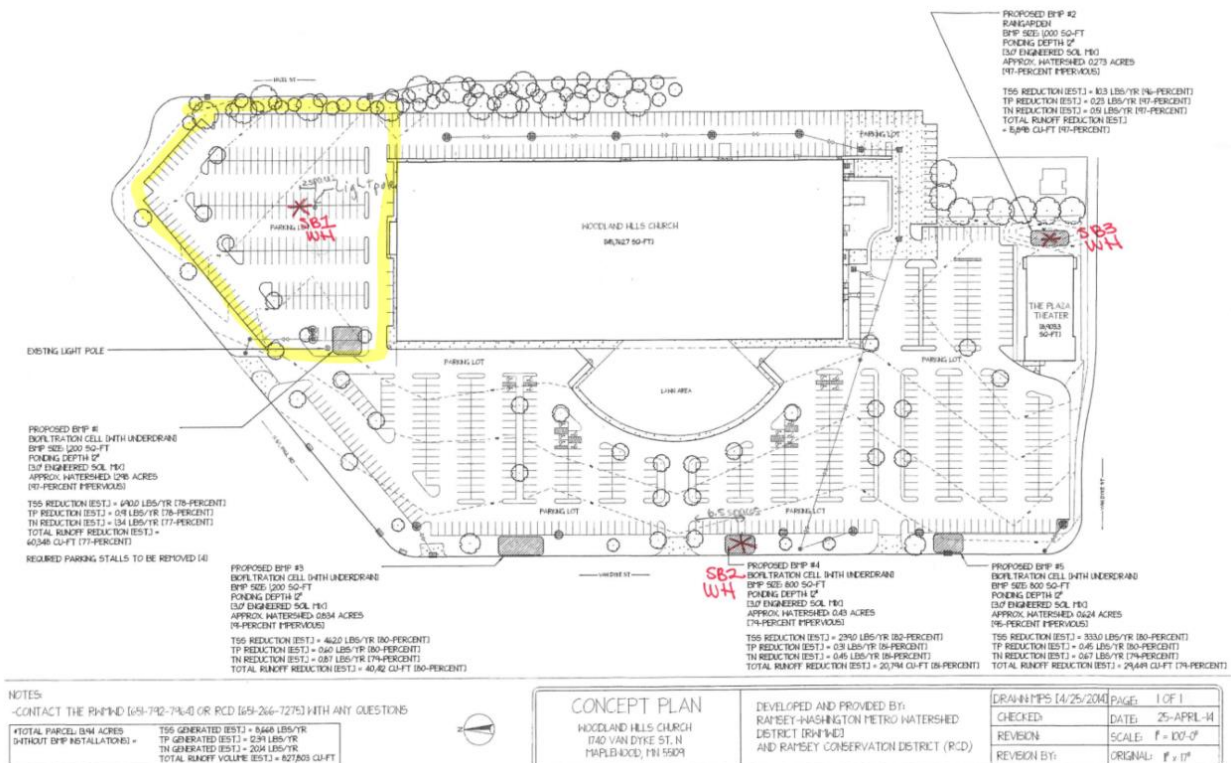
Stewardship Grant Program

Memorandum

To: RWMWD Board of Managers
From: Marcy Bean and Erin Anderson Wenz, Barr Engineering Co.
Subject: Additional Pavement Removals Required
Date: July 10, 2024
Project: Woodland Hills Church (Grant 24-16 CS)
c: Tina Carstens, Paige Ahlborg

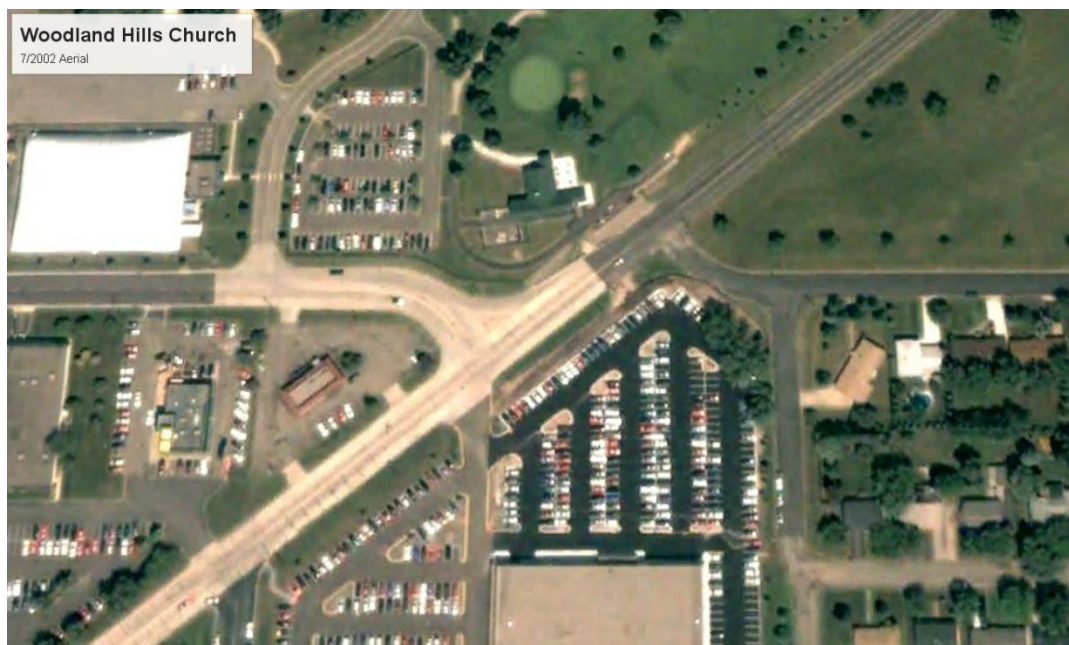
In this memo, we present a brief summary of the understanding of the site at Woodland Hills Church, a Stewardship Grantee (24-16), as complications have arisen during construction.

In support of RWMWD, Barr has been involved at Woodland Hills Church since 2014. Located near the intersection of White Bear Avenue and Larpenteur Avenue in Maplewood, the church was previously a Slumberland Furniture store. With Ramsey Conservation District, designs were developed for construction of several raingardens at the site in fall of that year. To inform the raingarden design, soil borings were completed. Below is a diagram depicting the location of the soil borings taken in spring 2014. Three raingardens and a bioswale were constructed in fall 2014.



In fall 2022, RWMWD and Barr met Woodland Hills staff at the property to discuss the potential for a grant for pavement reduction in their north parking lot (highlighted above). Barr provided design and

engineering for the project, with concept designs developed in February 2023. Typically, a full geotechnical analysis is not completed for grant-scale projects, so soils information from 2014 was used as one boring was within the parking lot where changes were proposed. During design, historical aerial photos of the site were referenced to understand potential for contaminated or hydric soils in the vicinity of the parking lot or building, of which none were found. Aerial photos available from Google Earth depict expansion of the original parking lot circa 2002 resulting in the 2024 footprint of the lot.



Designs were further developed centered primarily on removal of 1.25 acres of bituminous pavement, creation of a large raingarden and prairie area, and reuse of a portion of the parking lot to act as a staging area for tiny homes the church builds in partnership with *Settled*. The project provides a reduction in impervious surface, water quality treatment, and additional habitat in the commercial corridor. The City of Maplewood was consulted on the project, confirming the reduction of parking spaces was allowed by city ordinance. At approximately 90% design development, information for the city was provided in a memo dated 12/15/2023.

The project was selected to be a Stewardship Grant rather than Targeted Retrofit project due to the preferred timing for the church for implementation. The church worked directly with several contractors to seek bids for the project in early 2024. Shoreline Landscaping was the selected contractor with a total project cost of \$394,128. The grant eligible portion was \$165,180. At the April 3, 2024 board meeting, the board approved \$149,113 in grant funds for this project. The project is located in the priority subwatershed of Wakefield Lake so is eligible for 100% coverage up to \$100,000. It is also located within a medium priority Social Vulnerability Index (SVI) area so staff recommended, and board approved, awarding \$49,113 in Stormwater Impact Fund dollars towards this project as well.

On May 23, 2024, Barr staff, RWMWD staff, Shoreline Landscaping (contractor), and Church representatives met on site for a preconstruction conference. The church requested a few changes that required a new pavement profile from Barr and soil boring records were provided to the contractor.

On June 18, 2024 parking lot demolition and hauling had begun, and as areas were further excavated, multiple layers of pavement were discovered below the existing parking lot. Test pits were dug at various locations across the site, showing ranges of approximately 16"-38" of additional pavement below the topmost parking lot, resulting in a significant volume of material to be excavated and disposed of. Work was halted in order for the owner to consider options and consult with the contractor and RWMWD staff.



Soils information and review of historical aerial imagery did not warn the project team of the layers of pavement found on site. It is unclear why multiple property owners chose to apply new parking lots on top of existing ones rather than mill and overlay to provide fresh pavement.

The depths of excavation required to remove the historic parking lots was an unforeseen project cost. Excavation, hauling, and disposal will each result in larger volumes, as would fill soil that may be required to bring the site to the design grades. Additional costs are currently estimated in the order of \$200,000.

To: RWMWD Board of Managers
From: Marcy Bean and Erin Anderson Wenz, Barr Engineering Co.
Subject: Additional Pavement Removals Required
Date: July 10, 2024
Page: 4

Once all pavement is excavated, it may be possible to redesign the grading to adjust to the elevations to minimize additional fill required. The church is committed to completing this project as designed while remedying the disposal of the uncovered pavement layers. They are requesting additional funding from RWMWD to offset these additional costs. Given the location of the project, the water quality benefits, the overall goals of the project, along with the funds available in the stewardship grant program budget, staff recommend approving 50% of the additional costs up to \$100,000.

Stewardship Grant Program Budget Status Update

July 10, 2024

		Last Month	This Month	Last Month	This Month
Homeowner	Coverage	Number of Projects: 18	Number of Projects: 22	Funds Allocated	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	10	13	\$20,188	\$26,343**
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	6	7	\$41,155	\$45,655**
MN Water Steward Project	100% Cost Share \$15,000 Max	0	0	\$0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	2	2	\$13,497.40	\$13,497.40

		Last Month	This Month	Last Month	This Month
Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 15	Number of Projects: 15	Funds Allocated	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	4	4	\$24,597.50	\$24,597.50
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	0	0	\$0	\$0
Priority Area Projects	100% Cost Share \$100,000 Max	4	4	\$281,211.50	\$281,211.50
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	0	\$0	\$0
Public Art (\$50,000 Reserved)	50% Cost Share \$15,000 Max/Project	2	2	\$5,323	\$5,323
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	0	\$0	\$0
Enhanced Street Sweeping (\$250,000 Reserved)	Varies	5	5	\$142,375	\$142,375

Maintenance	50% Cost Share \$7,500 Max for 5 Years	73	74	\$55,725	\$57,650**
Consultant Fees				\$38,142	\$40,546
Total Allocated				\$622,214	\$637,198

*includes funds to be approved at current board meeting

** includes staff approvals since previous board meeting

2024 Stewardship Grant Program Budget		
	Last Month	This Month
Budget	\$1,250,000	\$1,250,000
Total Funds Allocated	\$622,214	\$637,198
Total Available Funds	\$627,786	\$612,802

* * * * *

Action Items

* * * * *

Request for board action

Board meeting date: July 10, 2024

Agenda item no.: 7A

Preparer: Tina Carstens, Administrator

Item description: Beltline Mississippi River Branch Outfall Replacement Project Bid Award

Background:

In July 2023, the district discovered that a portion of the district-owned and -operated Beltline storm sewer interceptor near the outlet to the Mississippi River failed. After conducting an emergency repair, the district requested that Barr design a replacement for the section of tunnel near the river that failed.

At the June meeting, the board was presented with the plans and cost estimate for the Beltline Mississippi River Branch outfall replacement. The board directed staff to finalize the design and bidding documents and solicit bid proposals. The engineer's opinion of probable cost for project construction was \$968,000 (ranging from \$872,000 to \$1,114,000).

The virtual bid opening was held on June 28, 2024, and the bid results are compiled in the attached table.

Contractor name	5% bid bond	Bid signed	Successful bidder affidavit	Base bid amount	Order
Minger Construction Co. Inc.	Yes	Yes	Yes	\$ 1,140,380.00	1
Engineering & Construction Innovations Inc.	Yes	Yes	Yes	\$ 1,271,470.00	2
Carl Bolander and Sons	Yes	Yes	Yes	\$ 1,356,910.00	3

The managers should consider awarding the project to the lowest responsive and responsible bidder. Assuming that the required bonds, insurance documentation, and other submittals meet contract requirements and provided that permits and approvals are in place, the project will begin this fall, with a winter completion.

Applicable District Goal and Action Item:

Goal: Manage flood risk—The district will reduce the public's risk to life and property from flooding through programs and projects that protect public safety and economic well-being.

Action item: Maintain district flood storage facilities and storm sewer systems.

Staff Recommendation:

Staff recommends that the board award the project to Minger Construction Co. Inc.

Financial Implications:

This project was budgeted for in the CIP Maintenance and Repair fund where there are sufficient funds available.

Board Action Requested:

Accept the bids and award the Beltline Mississippi River Branch Outfall Replacement project to Minger Construction Co. Inc. Direct staff to prepare and mail the notice of award, prepare the agreements, and review the required submittals.

Technical memorandum

To: Ramsey-Washington Metro Watershed District board of managers
From: Nathan Campeau and Joe Welna (Barr Engineering Co.)
Subject: Beltline Mississippi River Branch outfall replacement—recommendation to award project
Date: July 1, 2024
Project: 23/62/282
c: Dave Vlasin and Tina Carstens (Ramsey-Washington Metro Watershed District)

The Ramsey-Washington Metro Watershed District (RWMWD) owns and maintains the Beltline storm sewer interceptor, a 33,000-foot-long storm sewer tunnel that drains much of the RWMWD, including the Phalen chain of lakes. The Beltline discharges into the Mississippi River on Saint Paul Port Authority (SPPA) property that is leased to Northern Metals, near the intersection of Warner and Childs roads. In early July 2023, a sinkhole was discovered over the Beltline tunnel in Saint Paul, approximately 25 feet upstream of the outfall into the river. See Figure-1 for the general site layout, the tunnel alignment near the outfall location, and the sinkhole location. The RWMWD inspected the Beltline tunnel in the vicinity of the sinkhole and discovered deformation and two joint separations in the sides of the nine-foot-diameter steel pipe, as shown in Figure-2.

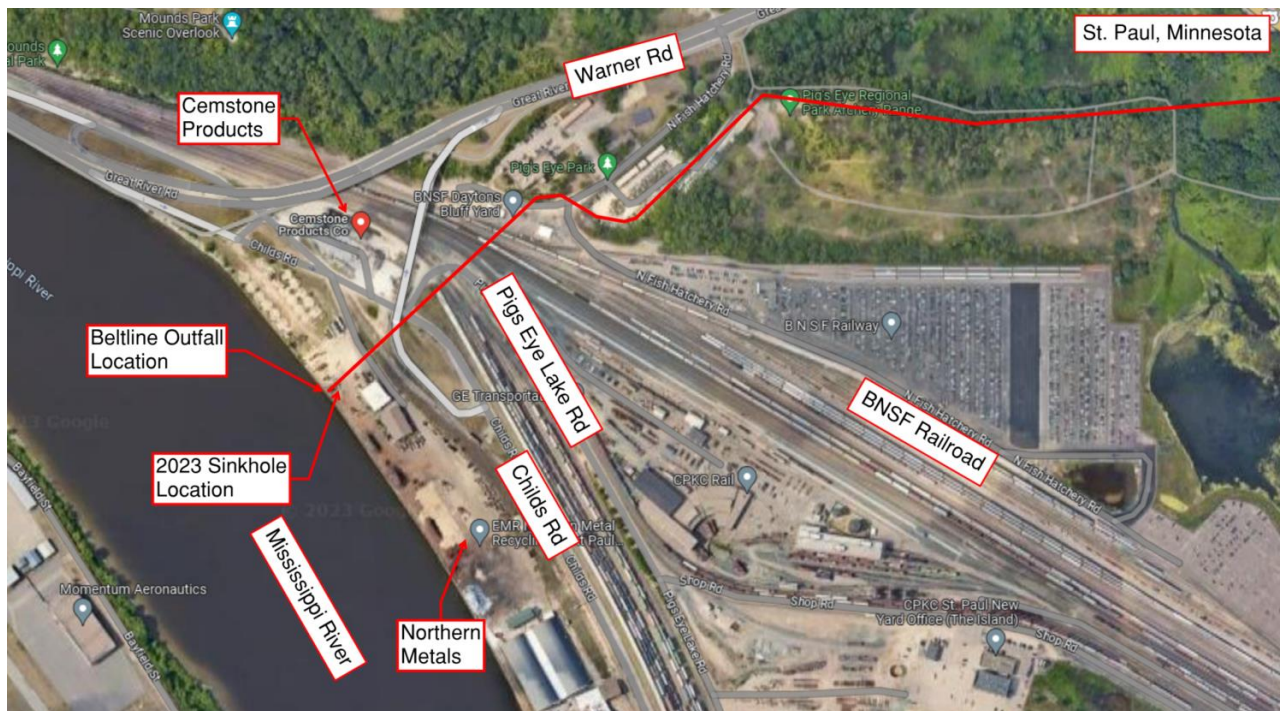


Figure-1 Beltline site layout near outfall



Figure-2 Deformation and joint separations in nine-foot-diameter steel pipe

The RWMWD requested that Barr design an emergency repair, which included the installation of steel-welded patches over the joint separations. The RWMWD retained PCiRoads to construct the repairs, which were completed over four days in mid-July (within a week of discovering the sinkhole). During construction, the RWMWD discovered additional defects within the pipe, including two penetrations in the invert (with voids measuring four to 15 inches deep below the pipe) at the connection of the pipe and the manhole, which were also repaired.

The RWMWD then asked Barr to conduct a feasibility study, field investigations, and final design of a replacement for the pipe. The RWMWD board of managers authorized bidding for the Beltline Mississippi River Branch outfall replacement at its June 5, 2024, meeting. Following board authorization, the project was publicly bid for three weeks, ending on June 28 at a virtual bid opening. Three bids were received and are listed in table 1.

Table 1: Summary of bids received for Roosevelt Homes landscape improvements

Bidder	Total base bid entered on the bid form
Minger Construction Co. Inc.	\$1,140,380.00
Engineering & Construction Innovations Inc.	\$1,271,470.00
Carl Bolander and Sons	\$1,356,910.00
<i>Engineer's opinion of probable cost was \$968,000 (ranging from \$872,000 to \$1,114,000) at the June board meeting.</i>	

The low bid is approximately two percent higher than the engineer's opinion of probable cost. The higher bids are likely due to concerns about the complexities of managing water on the river (with a coffer dam), baseflow in the tunnel, and groundwater from the excavation itself. The risk is hard to predict, and while the engineer's opinion of probable cost accounted for this risk, the contractors may have looked at the risk differently, particularly given that the river (and thus likely the groundwater table) reached historic highs during the bidding period.

Barr has worked with all three bidders on tunnel and infrastructure projects. We have worked with Minger Construction Co. Inc. on several tunnel projects—most notably on tunnel repair projects for the Trout Brook Interceptor, owned and operated by Capitol Region Watershed District. The RWMWD had a good

experience working with Minger on a project. Minger has met the bidding requirements and is considered the apparent lowest responsible and responsive bidder.

Barr recommends that the RWMWD board of managers consider a motion that awards the project to Minger at the bid price of \$1,140,380.00, direct staff to request the required bonds and insurance information, and execute the contract for the work. Once the necessary submittals are received and reviewed and the contract is signed by all parties, a required preconstruction meeting will be held and a formal notice to proceed issued.

Next steps

If the board of managers approves the motion, the following steps will be taken:

- An authorized representative will sign the notice of award to be sent to the successful bidder.
- The successful bidder will provide:
 - Fully executed form of agreement
 - Performance bond and payment bond
 - Certificate of insurance verifying adequate insurance per the bidding documents
- Barr and Galowitz-Olsen will review the submittals and, if necessary, request modifications.
- Barr will coordinate with the successful bidder regarding the construction schedule and will schedule a preconstruction meeting.
- The form of agreement will be signed by all parties.
- Notice to proceed is anticipated to be issued on or after August 1, 2024.
- All work will be substantially completed by March 1, 2025.

New Reports/ Presentations



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

Resiliency Study for Battle Creek, Fish Creek and Snake Creek
Tributary Areas

July 10, 2024

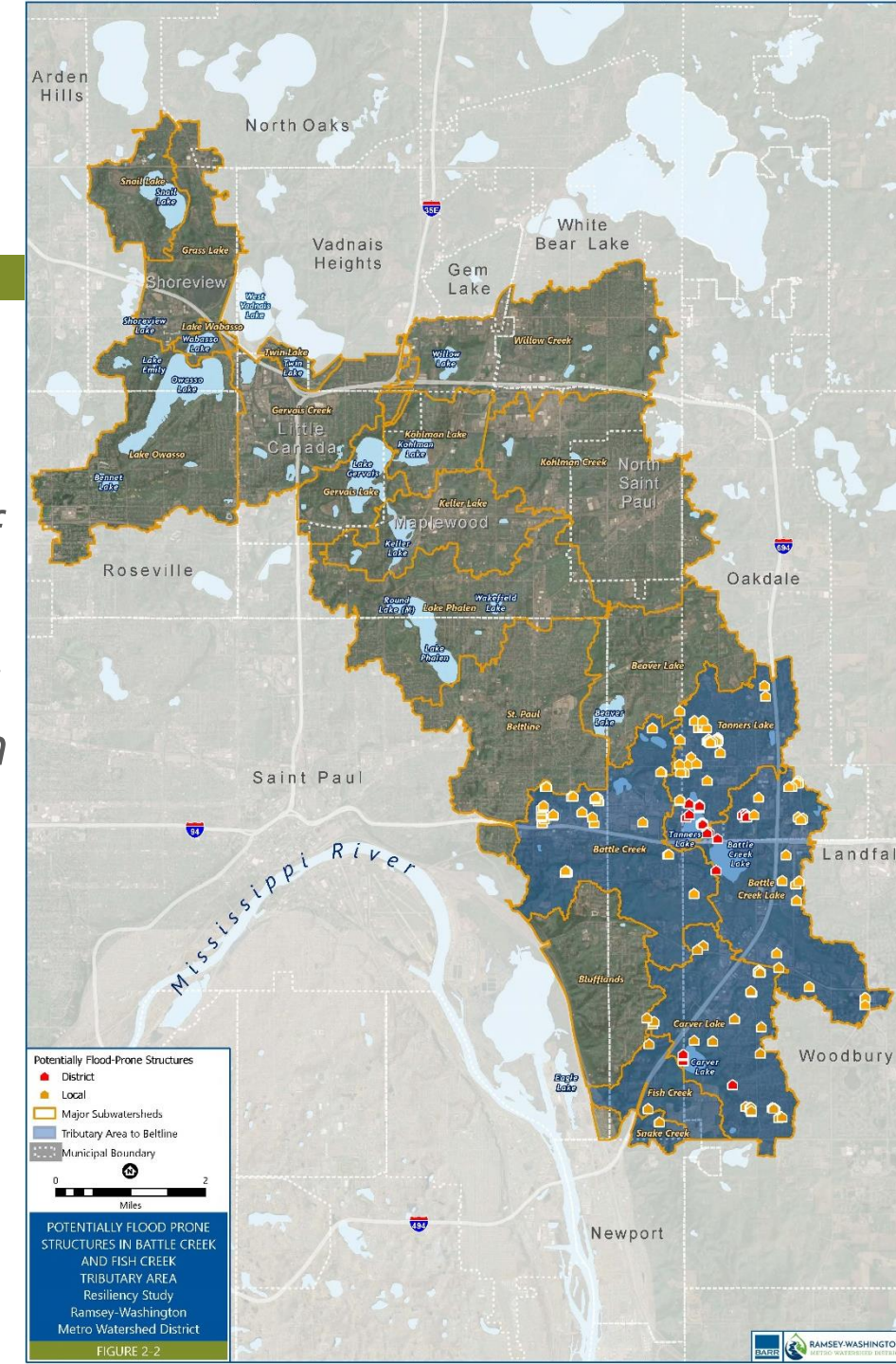


Agenda

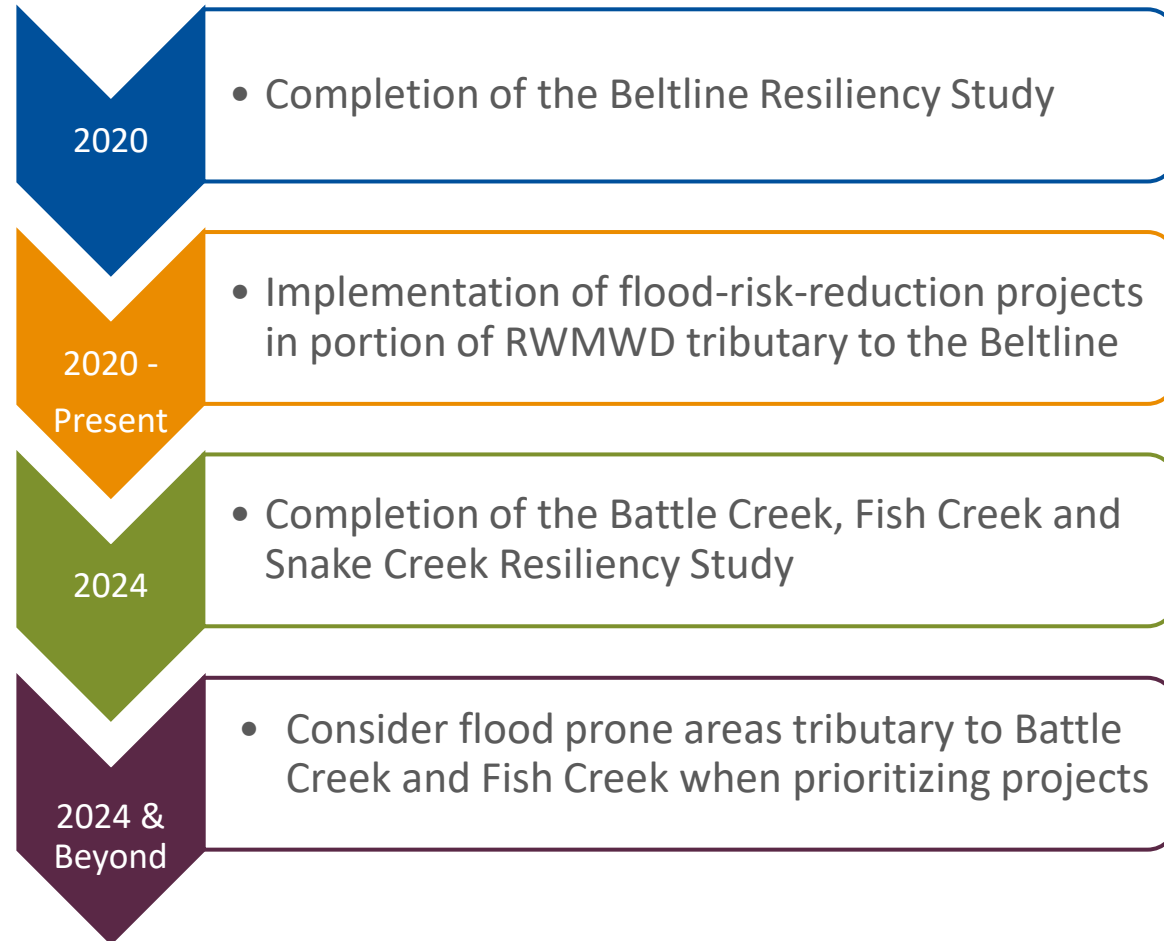
- Overview
- Model Updates
- Evaluated System Modifications
- High Level Cost Estimates
- Next Steps and Prioritization
- Questions



- *The purpose of this study is to:*
 - *evaluate system-level flood damage reduction options, including real-time mechanical alteration of the Tanners Lake and Battle Creek Lake outlet structures, as well as other critical system infrastructure, to actively manage stormwater runoff from flood-prone areas tributary to Battle Creek, Fish Creek and Snake Creek in an effort to reduce flood levels that would otherwise impact homes.*
- *Web map link:*
<https://maps.barr.com/RWMWD/BeltlineResiliency/StoryMapSeries/index.html>

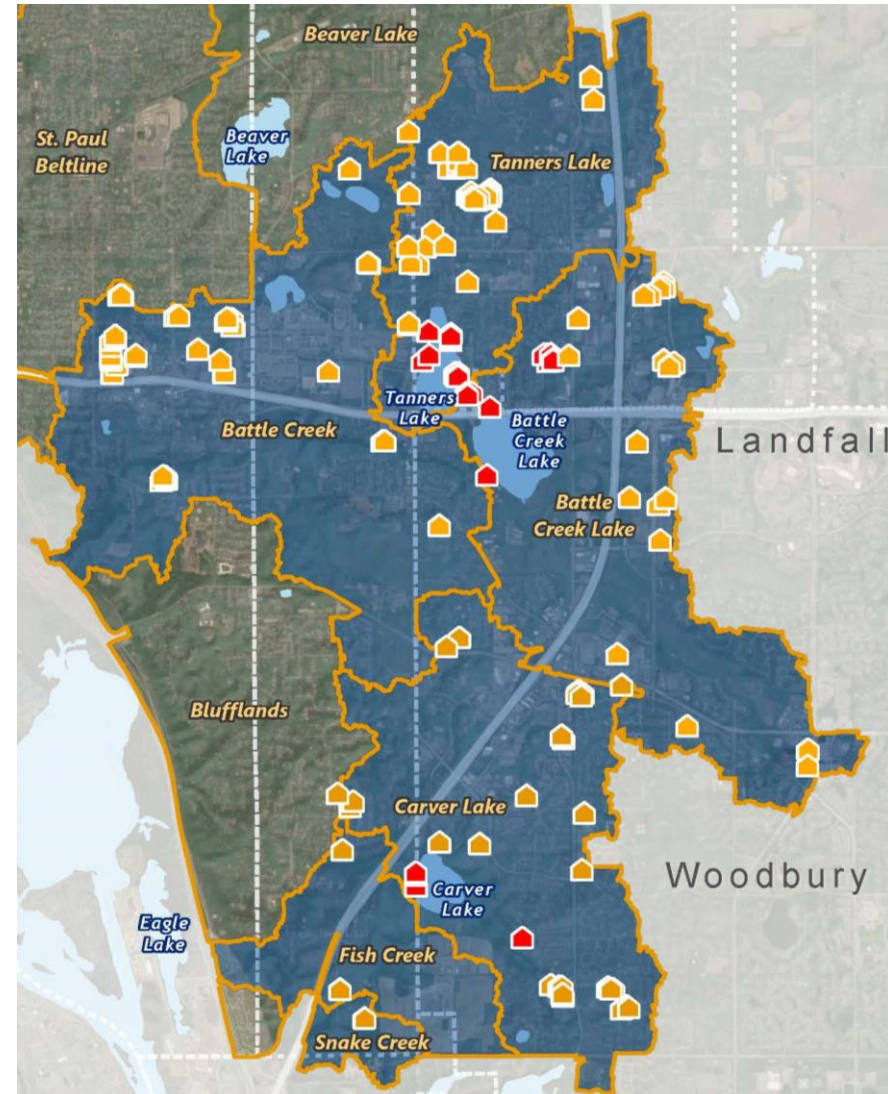


RWMWD Resiliency Study background



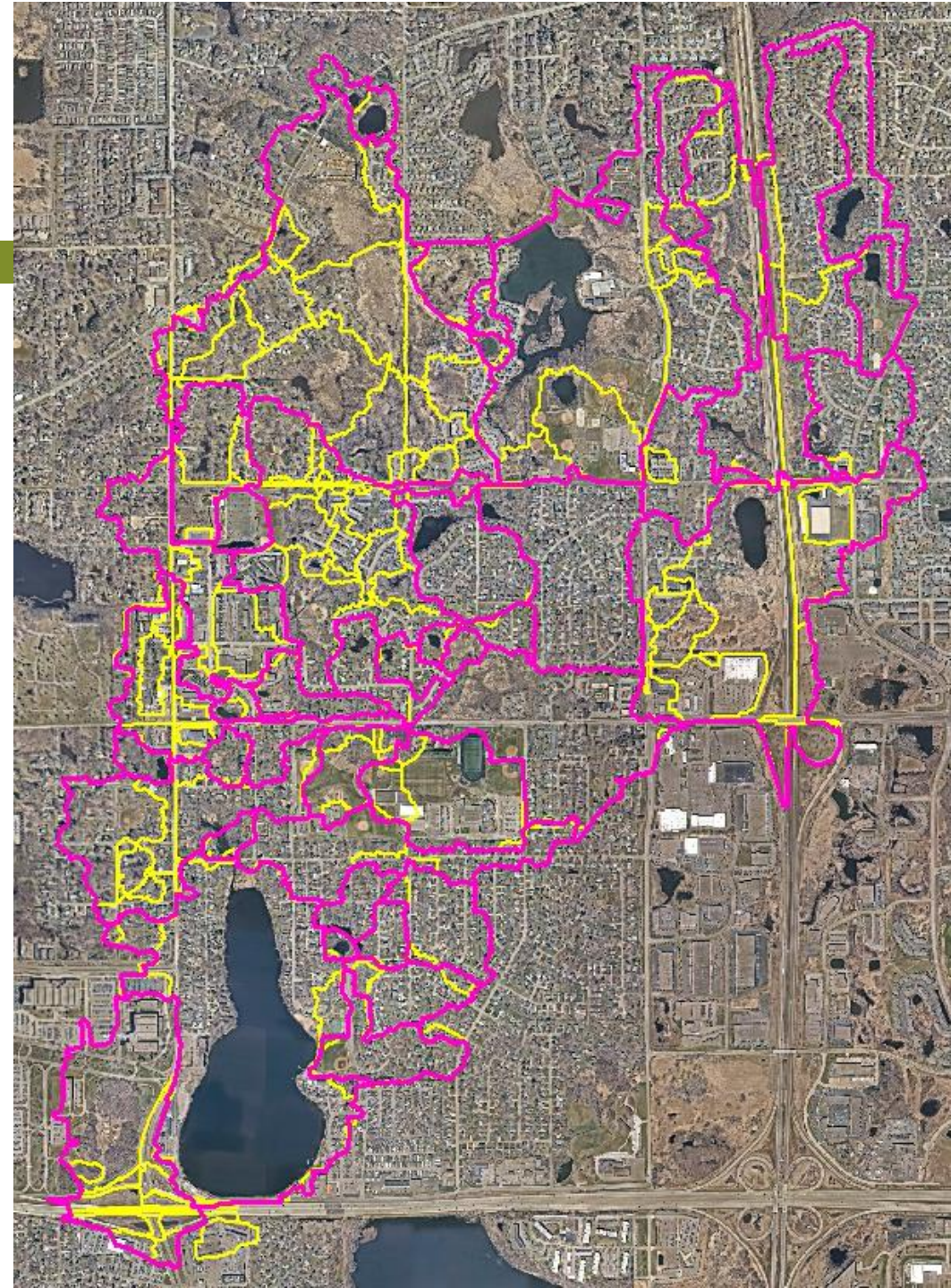
Identification of potentially-flood prone structures

- Inundation area intersects building outline
- Potential District Flood-Risk Areas
 - Near District managed water bodies, facilities, or previous projects
 - 29 in Battle Creek, 4 in Fish Creek
- Local Flood-Risk Areas
 - All other buildings
 - 107 in Battle Creek, 32 in Fish Creek



Model updates

- Updated the Districts H&H models based on recent storm sewer data from the cities and development plans
- Increased the model's level of detail to match other modeled areas in the district
 - Battle Creek/Battle Creek Lake/Tanners Lake model increased from 355 to 694 subwatersheds
 - Fish Creek/Carver Lake/Snake Creek model increased from 189 to 314 subwatersheds



Evaluation of system modifications

1. Store water
2. Change direction of flow
3. Increase flow



- Reduce conveyance capacity
- Provide flood-storage
 - New ponds or underground storage
 - Increase storage in existing ponds
- Modify overflows
- Modify storm sewer system
- Mechanical operation of outlet structures
- Increase conveyance capacity
- Provide flood-storage in parks or other existing open spaces



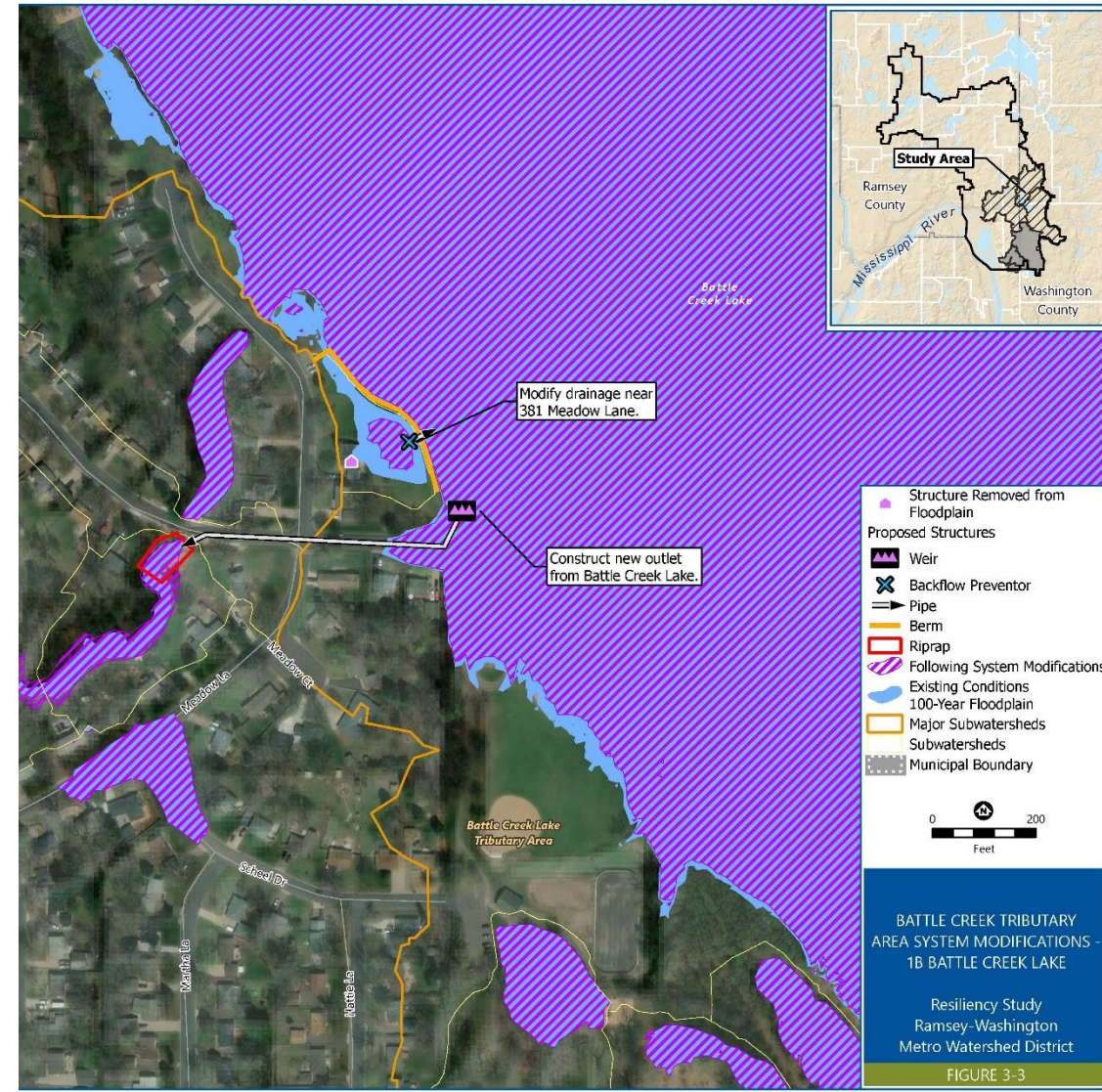
Evaluation of system modifications

- Evaluated Battle Creek system modifications:
 - 1A: Increased storage at McKnight Basin
 - 1B: Battle Creek Lake outlet modifications
 - 1C: Tanners Lake outlet modifications
 - 1D: 4th Street Place North conveyance and storage modifications
- Evaluated Fish Creek system modifications:
 - 2A: Increased storage and conveyance modifications
 - 2B: Carver Lake outlet and downstream channel modifications



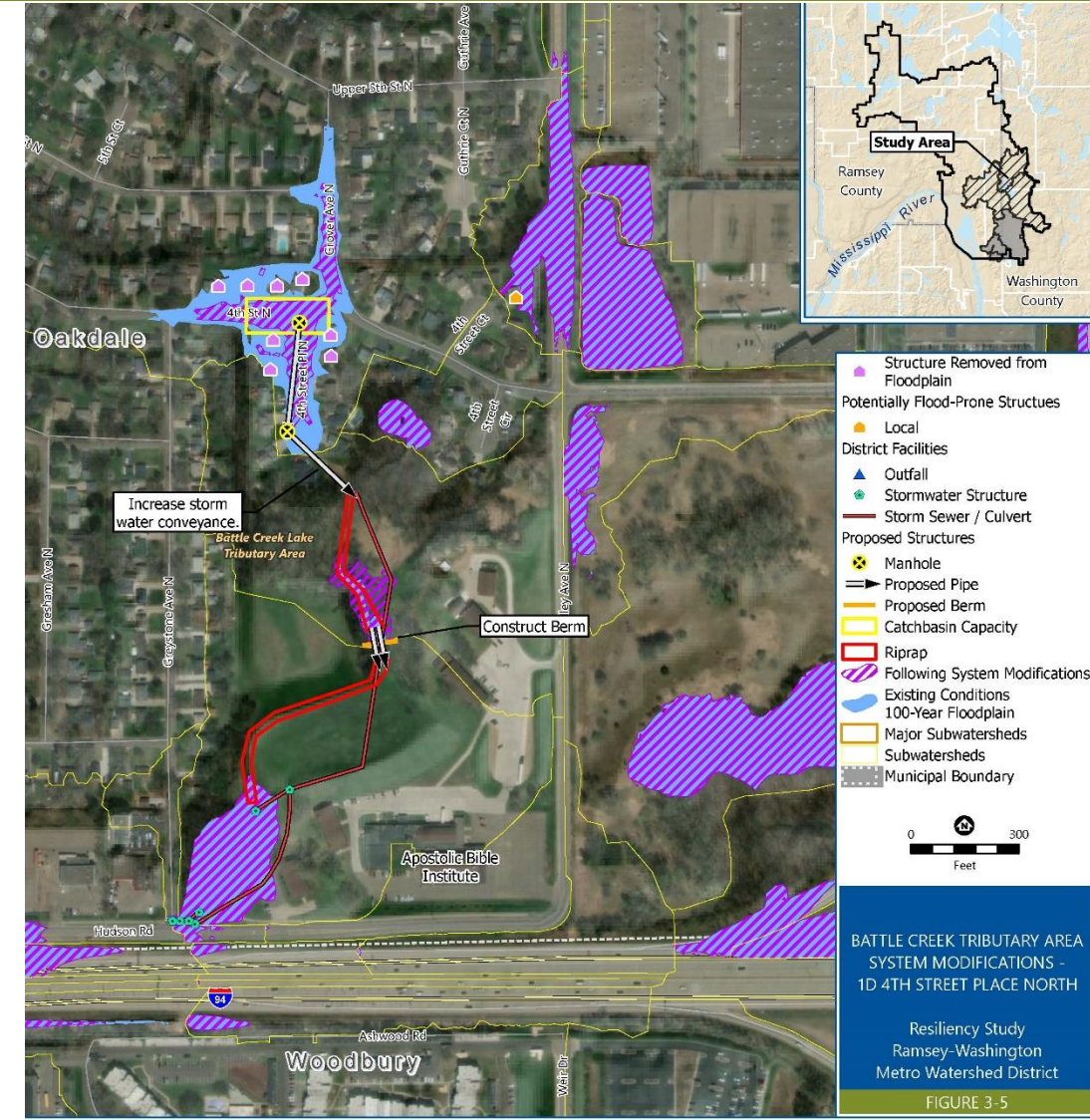
Potential system modifications at the Battle Creek Lake Outlet

- Construct new outlet structure with active management capability
- Construct new outlet pipe
- Raise park trail and install backflow prevention on culvert
- Potentially removes 1 residence from the 100-year flood plain
- Allows upstream modifications at Tanners Lake without increasing the Battle Creek Lake 100-year flood level



Potential system modifications at 4th Street Place North

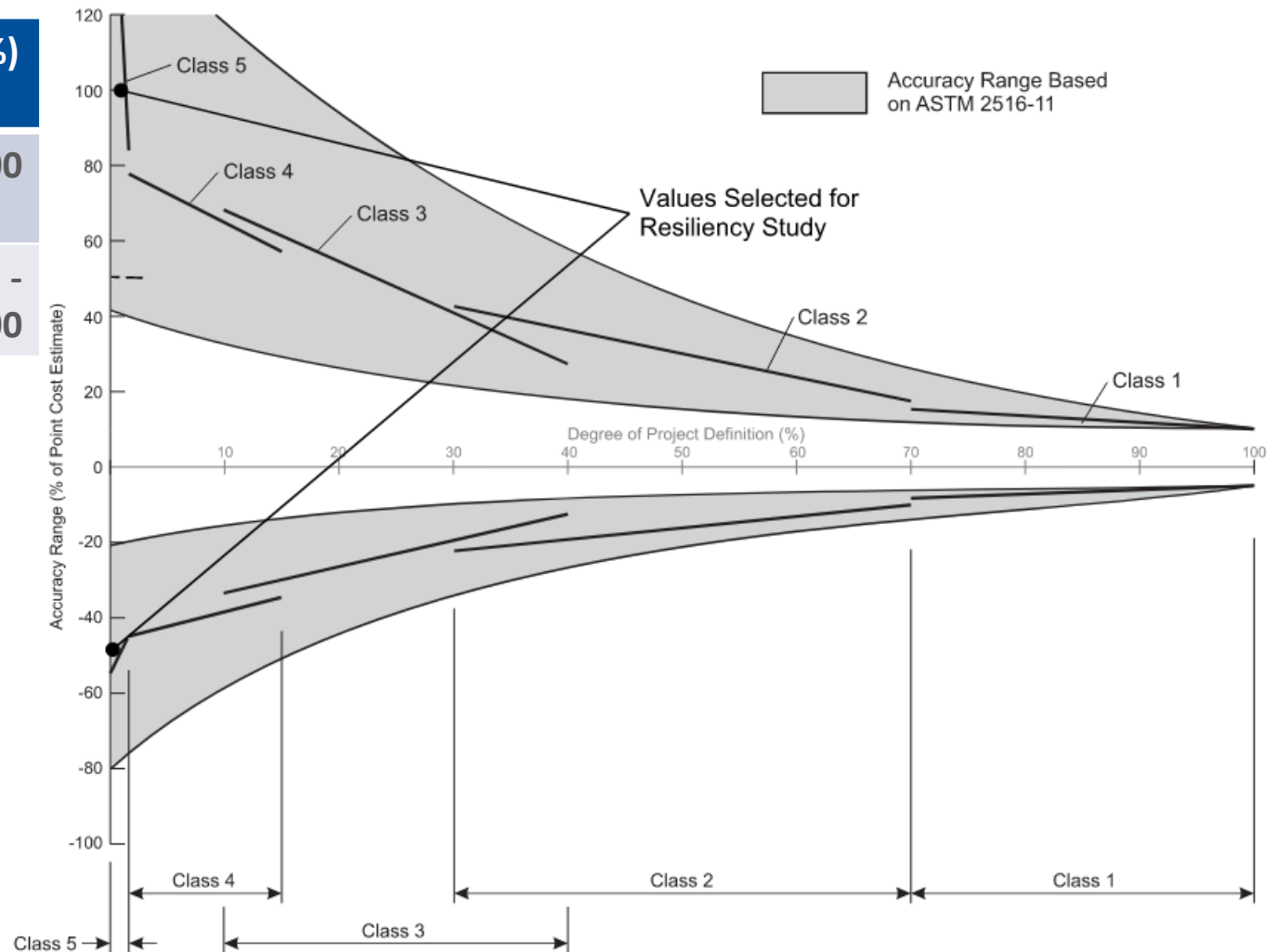
- Increase catch basin and pipe capacity
- Construct berm to provide rate and volume control
- Reinforce open channels to protect against erosion
- Potentially removes 8 residences from the 100-year flood plain



Concept Planning-Level Opinion of Probable Construction Cost

System Modification Area	Low Cost (-50%) (\$)	High Cost (+100%) (\$)
Phase1: Battle Creek Tributary Area	\$5,342,000	\$21,378,000
Phase2: Fish Creek Tributary Area	\$815,000 - \$6,879,000	\$3,260,000 - \$27,514,000

- Graphic shows the relationship between cost accuracy and degree of project definition



NOTE: Modeled after ASTM 2516-11

Next steps and project prioritization

1. Consider flood prone areas tributary to Battle Creek and Fish Creek when prioritizing projects
2. Active management of Tanners Lake and Battle Creek Lake control structures
3. Refine the Tanners Lake and Battle Creek Lake outlet modifications and McKnight Basin floodplain storage
4. Refine the 4th Street Place North modifications
5. Active management of the Carver Lake control structures
6. Stakeholder review



Scope Summary

Date: July 1, 2024

Project: Kohlman Lake Alum Treatment

Project Team:

District Staff: Paul Erdmann, Eric Korte, Tina Carstens

Barr Staff: Tyler Olsen (Project Manager)
Keith Pilgrim (Technical Advisor)
Erin Anderson Wenz (Principal)

Scope of Work

The water quality of Kohlman Lake has declined significantly in recent years. During this time there has been intensive aquatic plant management, and it is suspected that declining water quality is linked to the loss of aquatic plants. Additionally, it has been 14 years since the last alum treatment was conducted on Kohlman Lake. The effectiveness of an alum treatment declines over time, and it is likely that the 2010 alum treatment is no longer preventing internal loading of phosphorus to the lake as it once did. The tasks below outline the scope of work required to perform the alum treatment to Kohlman Lake.

Task 1a – Assess Existing Coring Data

Sediment cores were collected in Kohlman Lake in both 2020 (4 cores) and 2023 (5 cores). Phosphorus fractionization was performed on the sediment cores in both years. Barr will evaluate the existing coring data to determine if it is sufficient to use for designing the sediment treatment.

Task 1b – Collect Additional Sediment Cores (as needed)

If the existing sediment core data is insufficient to design a sediment treatment for Kohlman Lake, Barr proposes collection of additional sediment cores in the fall of 2024 to perform sediment phosphorus fractionization. Collecting this data will allow for an accurate sediment treatment design based on current lake sediment conditions.

Task 1c – Assess Macrophyte Population and Coverage

For this task, Barr will assess the macrophyte data to be collected by Ramsey County to understand the macrophyte population (species) and coverage (density) throughout Kohlman Lake pre and post alum treatment. We assume that no additional vegetation surveys outside of what Ramsey County collects will be needed.

Task 2 – Sediment Treatment Design and Contract Document Development

This task will entail the development of contract documents for aluminum (as liquid sodium aluminate) application for a single treatment of lake bottom sediments in Kohlman Lake, based on the results from Task 1. It is expected that the contract documents will include:

- Project design/scope of work
- Required contractor qualifications
- Work schedule
- Price quote request
- Site access
- Other design drawings and technical specifications
- Figures, as needed
- Draft agreement between the contractor and Ramsey Washington Metro Watershed District.

Barr will work with the City of Maplewood and private property owners, as needed, to identify the necessary agreements or requirements for contractor access to the lake. It is expected that access can be provided through public property.

Barr will work with RWMWD staff and legal counsel in development of the contract documents and draft an agreement between the contractor and RWMWD.

This task will include one meeting with RWMWD and City of Maplewood staff.

Task 3 – Bidding

For the purposes of this scope of work, Barr will procure the work through solicitation of quotes from a select list of bidders. Barr will evaluate each quote with respect to price and qualifications as identified in the contract documents. Recommendations will be prepared and presented to the RWMWD board for approval.

Task 4 – Permitting

Barr will draft and submit a letter of notification to the MPCA regarding the planned aluminum and iron treatment for Kohlman Lake. The City of Maplewood will be contacted to identify any necessary permitting requirements for contractor access to the lake.

Task 5 – Alum Application Observation and Monitoring

Barr will coordinate with and serve as the primary contact with the contractor. Barr will facilitate necessary communication between the contractor, RWMWD, and the City of Maplewood, including scheduling a kick-off meeting with RWMWD and Maplewood staff upon contractor selection.

Barr will provide on-site oversight and assistance during staging of the alum treatment. Barr will be on-site during the treatment taking pH measurements throughout the treatment and monitoring the progress of the contractor. Barr will also collect a one-time set of samples for chloride and aluminum following the treatment.

Task 6 – Develop Water Quality and Macrophyte Monitoring Plan

Following the alum treatment, Barr will develop a monitoring plan for the continued evaluation of the treatment effectiveness, including water quality response and macrophyte response to the alum treatment. This monitoring plan will be developed with District staff to implement into the District's current monitoring program, if feasible.

Task 7 – Final Documentation

Barr will document the sediment treatment in a technical memorandum to the District.

Budget

The cost to conduct the proposed scope of work is summarized in the table blow. The budget provides for staff in the following disciplines: sediment chemistry, limnology, civil engineering, CAD, field observation, inspection, and project management.

Task	Cost ¹
Task 1a: Assess existing sediment core data	\$6,000
Task 1b: Collect additional sediment cores	\$15,000
Task 1c: Assess macrophyte population and coverage	\$4,000
Task 2: Sediment Treatment Design and Contract Document Development	\$11,400
Task 3: Bidding	\$4,900
Task 4: Permitting	\$8,000
Task 5: Alum application observation and monitoring	\$11,700
Task 6: Develop monitoring plan	\$5,000
Task 7: Final documentation and presentation to Board	\$5,300
Subtotal without additional sediment cores	\$56,300
Subtotal with additional sediment cores	\$71,300

¹Budget does not include cost of alum application

Schedule

The anticipated schedule for preparation for and completion of the treatments is summarized below.

Task	Estimated Completion Month
Task 1a: Assess existing sediment core data	August 2024
Task 1b: Collect additional sediment cores (as needed)	October 2024
Task 1c: Assess macrophyte population and coverage	October 2024
Task 2: Sediment Treatment Design	February 2025
Task 3: Bidding	March 2025
Task 4: Permitting	March 2025
Task 5: Alum application observation and monitoring	April/May 2025 ¹

¹Weather dependent

Memorandum

To: Tina Carstens – Ramsey-Washington Metro Watershed District
From: Greg Williams, PE and Erin Anderson Wenz, PE
Subject: 2027 Watershed Management Plan Scope Summary
Date: July 1, 2024
Project: 23/62-1496.00

Project: RWMWD 2027-2035 Watershed Management Plan (2017 Plan) Update

Project Team:

District: Tina Carstens (District Project Manager)
Additional District staff, as appropriate
Barr: Erin Anderson-Wenz (Barr Project Principle)
Greg Williams (Barr Project Manager)
Additional Barr staff, as appropriate

Scope of Work:

We understand that the RWMWD Managers seek Barr Engineering Co.'s (Barr's) assistance in updating its 2027-2036 Watershed Management Plan (2027 Plan). This memorandum summarizes Barr Engineering Co.'s (Barr's) proposed scope of work to assist in this effort. Our proposed scope is consistent with plan content and development requirements defined in Minnesota Statutes 103B and 103D and Minnesota Rules 8410. The presented scope and associated budget include recommended tasks that may be pursued or omitted at the discretion of the RWMWD Managers.

This scope of work is divided into four phases:

1. **Partner Engagement** – Gather and process input from watershed residents, partner entities, and Plan review authorities, and other affected parties to inform Plan development.
2. **Complex Issue Pre-Work** – Begin to evaluate new and evolving issues that may require additional analysis to avoid delaying Plan development.
3. **Draft Plan Development** – Develop content and create a draft Plan document consistent with Minnesota watershed law.
4. **Plan Review, Approval, and Adoption** – Guide the draft Plan document through the formal review process, respond to feedback, obtain approval from the Minnesota Board of Water and Soil Resources (BWSR), leading to Plan adoption by the RWMWD Managers.

Figure 1 presents a high-level Plan update project schedule divided into the four project phases.

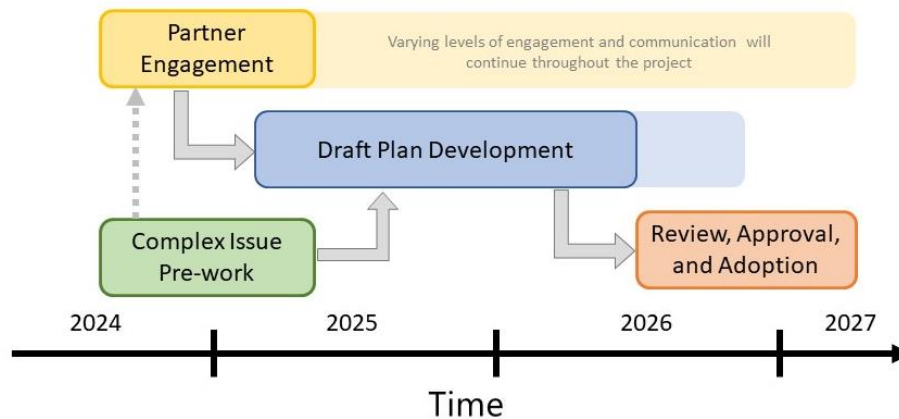


Figure 1 High-level Plan Update Project Schedule

1 Phase 1 – Partner Engagement

In updating its Plan, the RWMWD Managers have the opportunity to engage and receive input from a broad group of partners and affected parties within the watershed. Consideration of partner input is an important step in establishing Plan priorities. Meaningful engagement is also key in establishing the community and partner support necessary to successfully implement RWMWD policies, projects, and programs.

1.1 Develop Partner Engagement Plan

Barr staff will work with RWMWD staff and Managers to develop a *Partner Engagement Plan* outlining activities planned to obtain input on the Plan update. We recommend that the partner engagement process include the eight activities described in Section 1.2 through Section 1.9. Figure 2 presents our proposed sequence for executing partner engagement activities. The activities shown in Figure 2 and described in Section 1.2 through Section 1.9 may be revised during development of the *Partner Engagement Plan*. We strongly recommend submitting the partner engagement plan to BWSR for review prior to execution.

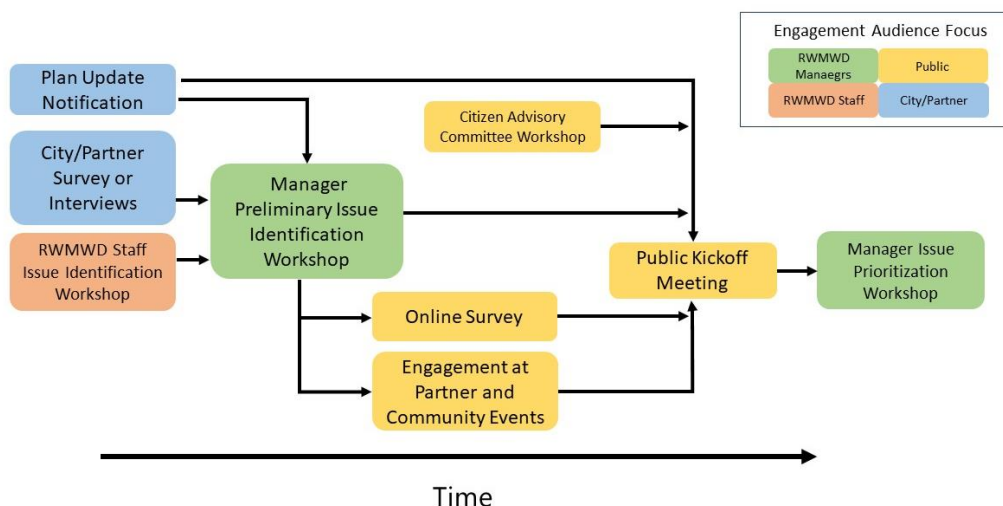


Figure 2 Proposed Partner Engagement Process Flowchart

1.2 Plan Update Notification

Per Minnesota Rules 8410.0045 Subp. 3 and Subp. 4, the RWMWD must send notification of the Plan update to the Plan review agencies and the Plan review authorities (as defined in Minnesota Rules 8410), respectively. Barr will draft and distribute the notification on behalf of the RWMWD. The notification will request that recipients provide information within 60 days about their priority issues, goals, and data relevant to the 2027 Plan. The notification will also ask recipients to identify potential technical advisory committee (TAC) member(s) from their organization. Barr staff will organize and summarize responses to the notification letter. This information will inform future discussion(s) and will be shared/presented at the Manager issue identification workshop and public kickoff meeting(s).

Plan Review Agencies:

- Board of Water and Soil Resources
- Metropolitan Council
- Minnesota Department of Natural Resources
- Minnesota Pollution Control Agency
- Minnesota Department of Health
- Minnesota Department of Agriculture

Plan Review Authorities additionally include:

- Ramsey County
- Washington County
- Washington Conservation District
- Cities of Gem Lake, Landfall, Little Canada, Maplewood, Oakdale, North St. Paul, Roseville, St. Paul, Shoreview, Vadnais Heights, White Bear Lake, and Woodbury

1.3 City/Partner Staff Surveys (with Option for Interviews)

Barr staff will seek specific and targeted information from city and county staff via a written questionnaire included with the notification letter (see Section 1.2). The questionnaire will seek input on priority resource, operational, and administrative issues facing the cities and townships within the RWMWD, and their working relationship with the RWMWD. The questionnaire will provide recipients with the option to provide input via a real-time interview (virtual or in-person). Real-time conversations allow for more detailed follow-up questions and may be useful to convey nuances not conveyed via written responses. The costs in **Error! Reference source not found.** assume up to two in-person interviews or four virtual interviews (or an equivalent combination).

1.4 RWMWD Staff Issue Identification Workshop

Barr will facilitate a workshop at the District offices to provide RWMWD staff an opportunity to identify and prioritize natural resource and organizational issues that should be addressed with the 2027 Plan update. We will prepare large-format maps illustrating basedata relevant to District resources and programs (e.g., water quality issues, infrastructure, wetlands). We propose a workshop format including small-group discussion facilitated by Barr staff to identify issues, concerns, and possible solutions. The small group discussion will be followed by an opportunity for large-group sharing and, ultimately, a voting exercise to identify the highest priority issues and actions. Barr staff will summarize the outcomes of the workshop in a brief memo. This workshop will provide input for the RWMWD Manager's preliminary issue identification workshop (see Section 1.5).

1.5 Manager Preliminary Issue Identification Workshop

Minnesota Rules 8410 require that watershed district plans identify priority issues and resources to be addressed during the life of the plan. Barr will facilitate an initial issue identification workshop for the Managers. Barr will present the summarized results of the plan update notification (see Section 1.2), city/partner surveys and interviews (see Section 1.3), and RWMWD staff workshop (see Section 1.4). We will also provide a summary of the 2017 Plan Gaps Analysis completed in 2023 and note similarities and differences relative to the issues identified in the 2017 Plan. Barr will facilitate a discussion among the

Managers to identify priority issues and resources to be addressed in subsequent Plan development efforts. Barr will memorialize the results of the workshop in a memorandum. This information will be considered in designing the online survey (see Section 1.7), engagement at public events (see Section 1.7), citizen advisory committee workshop (see Section 1.6), and the initial planning (public kickoff) meeting (see Section 1.9).

This workshop is intended to provide a preliminary identification of issues. The Managers will be asked to provide a more thorough review and prioritization of issues and resources following the initial planning meeting (see Section 1.9).

1.6 Citizen Advisory Committee (CAC) Workshop

The RWMWD maintains a citizen advisory committee (CAC). The CAC assists the Managers by providing input on District operations and planning, furthering public education and participation, and supporting event planning and implementation. During Phase 1, Barr will facilitate one meeting of the CAC specifically to identify and prioritize issues and resources to be addressed by the Plan. The meeting will follow a format similar to the RWMWD Staff workshop (see Section 1.4) and adjusted, as necessary, according to the number of participants and varying technical backgrounds. We will summarize the results of the CAC meeting in meeting minutes. We will use this information in planning for the public kickoff meeting(s) (see Section 1.9) and to inform future Plan development tasks.

We will continue to consult with the CAC throughout Plan development to get unique perspectives on Plan content. Additional meetings with the CAC are included in other Plan development tasks (Phase 3) and may address the following:

- Designing and implementing public education and outreach activities
- Targeting and prioritizing cost-share program activities
- Defining future roles for an ongoing CAC

1.7 Online Survey

Barr will work with RWMWD staff to develop an online survey to obtain information from residents, property owners, business owners, and other individuals who live, work, or recreate in the watershed. A survey is useful for collecting information from many people with minimal labor. Hosting the survey online allows greater access. We recommend that the survey be brief (e.g., between four and eight questions) to encourage participation and allow some or all of the survey questions to be asked during potential future face-to-face interactions with residents and other partners (see Section 1.7). We will develop survey questions with consideration of input from the initial Manager issue identification workshop and prior stakeholder engagement activities. The survey will be linked to a QR code to be easily accessed from mobile devices.

We will use information obtained through the survey to further inform the identification and prioritization of issues in the Plan and to inform education, outreach, and implementation strategies. The survey will be linked from the RWMWD website. We assume RWMWD staff will coordinate with cities and other partners to advertise and promote the survey leveraging existing communication tools (e.g., newsletters, websites, and social media).

1.8 Engagement at Partner and/or Community Events

Community events within the watershed present ready-made opportunities for RWMWD staff, Managers, or representatives (e.g., CAC, Barr staff) to engage with a broad cross-section of people. Examples include:

- Farmers markets
- Art fairs
- WaterFest

We will work with RWMWD staff to identify community events that RWMWD representatives should attend to share information about the District and Plan update process and to solicit input from event attendees (via survey QR code or asking questions based on the online survey). We will prepare a poster/board to accompany representatives to events. We assume that most events will be attended by RWMWD staff, Managers, or CAC members and that Barr staff will serve in a support role. We will summarize information collected at these events as part of a partner engagement summary memo.

1.9 Initial Planning (Public Kickoff) Meeting

Per Minnesota Rules 8410.0045 Subp. 5, the RWMWD must host an “initial planning” (i.e., public kickoff) meeting presided over by the Managers to receive, review, and discuss input on the Plan update. Written notification must be made to the plan review authorities and known partners; the initial planning meeting must be legally noticed and comply with open meeting legal requirements.

Barr staff will coordinate with RWMWD staff and Managers to host the initial planning meeting after the full or substantial completion of the other initial partner engagement activities so that these events may provide input for this meeting. Barr staff will work with RWMWD staff to identify a meeting date, secure a meeting location, publicly notice the meeting, and advertise the meeting to residents and partner entities, and other relevant groups. The goals of the initial planning meeting are to share information gathered thus far and to receive additional input on priority watershed issues.

We recommend that the initial planning meeting follow an “open house” format. In this format, Barr staff and RWMWD representatives will host an open house where attendees can spend as much or as little time as desired learning about the RWMWD, Plan update process, and partner-identified watershed issues from a series of posters and maps. Barr staff and/or RWMWD representatives will host tables or spaces dedicated to specific issues (e.g., water quality, flooding) and engage attendees regarding these topics. A greeter will welcome attendees and explain the public meeting format; the greeter will also ask attendees to vote (with stickers) on the most important issues for RWMWD to address before their leave.

1.10 Partner Engagement Summary and Manager Issue Prioritization Workshop

Target audience: RWMWD staff, Managers

Schedule: TBD

Following the initial planning meeting, Barr staff will prepare a memo summarizing the results of all partner engagement activities to date. Barr staff will meet with RWMWD project staff to develop recommendations regarding Plan priorities; these recommendations will be included in a memo to the Managers. Barr staff will facilitate a workshop with the Managers to consider, cumulatively, partner input and define priorities for the 2027 Plan. The Managers may revise priorities throughout the Plan update process, as needed. However, establishing defined priorities early in the Plan update process is important for focusing future project steps.

2 Phase 2 – Complex Issue Pre-Work

Development of the 2027 Plan is an opportunity for the RWMWD to perform a comprehensive examination of the District's role with respect to emerging and evolving issues. The 2017 Plan Gaps Analysis completed in 2023 identified some of these potential issues:

- Chloride pollution
- Polyflouro-alkyl substances (PFAs)
- Infiltration restrictions and increased reliance on non-infiltration BMPs
- Climate resiliency (including Flood Risk Reduction and Ecosystem Restoration)
- Increasing operations and BMP maintenance needs
- Goal measurability
- Project Prioritization
- Diversity, equity, and inclusion

Because of the complexity and/or novelty of these issues (relative to District programming), we recommend beginning to address these topics through targeted data review, research on how others are addressing these issues, and discussions with RWMWD staff, Managers, and partners early in the planning process. Because there is a wide range in the depth of analyses and amount of work that could be incorporated into this phase, the budget is presented as a range.

2.1 Plan Technical Advisory Committee (TAC) Workshops

We recommend that the District convene and consult with a Plan Technical Advisory Committee (TAC) at various points during Plan development to receive technically oriented feedback on the Plan update. We recommend that the Plan TAC include city staff, Washington and Ramsey County staff, WCD staff, and participants from plan review agencies (e.g., MDNR, MPCA, BWSR, Metropolitan Council). The TAC may include individuals from other groups identified by the Managers (e.g., lake associations).

During Plan development, we will work with RWMWD staff will coordinate and facilitate up to three Plan TAC meetings at the following recommended stages of Plan development:

- Discussion of complex issues early in Plan development
- Establishing and reviewing measurable goals
- Identifying and reviewing implementation strategies

We recommend that the first Plan TAC meeting be held in-person (or hybrid) to facilitate discussion. Future Plan TAC meetings may be held virtually to promote greater participation. Input from the TAC will be summarized and provided to RWMWD staff and Managers as needed throughout Plan development.

3 Phase 3: Draft Plan Development

During phase 3, Barr staff will work with RWMWD staff to draft Plan sections, incorporating information collected during Phase 1 and Phase 2. Phase 3 will conclude with the development of a complete draft Plan that is ready to submit for formal review (Phase 4). During Phase 3, we generally recommend the following process for developing, reviewing, and revising draft plan content prior to compiling a full draft of Plan.

Barr staff - develop draft content

RWMWD Staff - review and revise draft content

Plan TAC - provide feedback on content presented by Barr/RWMWD staff

RWMWD Managers - provide feedback to RWMWD staff and/or Barr staff, approve content

3.1 Update the Watershed Resource Inventory

We will work with RWMWD staff to update the watershed-wide land and water resource inventory (Section 1 of the 2017 Plan). In this section, we will summarize resource data and provide the knowledge base upon which the issues, goals, strategies, and implementation activities are built. This section serves as a reference for audiences of varying technical backgrounds, including city and District staff.

Topics addressed in this section include, but are not limited to: topography and drainage, land use, soils, geology, groundwater, surface waters, water quality, flooding, wetlands, natural areas, population and demographics, and others deemed significant by the Commission.

We will update the text, tables, and figures (maps) to present the most current data. We will reference existing data summaries and sources (e.g., annual monitoring reports, data hosted at the BCWMC website) to strike an appropriate balance of detail and brevity while seeking to avoid a Plan that is soon outdated.

3.2 Characterize Issues and Develop Measurable Goals

We will draft issue statements with supporting tables, figures, and narratives to characterize the priority issues identified by the Managers (see Section 1.10). As part of this effort, we will work with RWMWD staff to update District waterbody classifications relative to issues, as necessary.

We will work with RWMWD staff, the Plan TAC, and the Managers to develop and refine measurable goals to address priority issues. We will correlate draft goals with specific issues and/or resources to better allow for measurement of Plan progress. The goals in the 2017 Plan include six very high level goals supported by multiple “signs of success”. With the 2015 revision to MN Rules 8410, BWSR increased the emphasis on quantitative, measurable goals. We understand that the objective measurability of goals may vary according to the particular issue. We will update the signs of success to include objective measures, where appropriate, balancing specificity with flexibility.

Establishing realistic goals is an iterative process completed in coordination with developing a targeted implementation schedule – that is, understanding the actions the District can perform during the life of the

Plan will inform how much progress towards goals may be expected. We anticipate this task will include a Plan TAC meeting to receive partner feedback on draft goals (see Section 2.1).

3.3 Create a targeted implementation program

We will cooperate with RWMWD staff to update Plan text describing the District programs and operations (Section 4 of the 2017 Plan) to reflect current and planned operations. We will consider the need for revised or additional programs. We will leverage existing District work (e.g., retrofit project prioritization study) to develop an implementation program including activities to be completed during the 10-year period. We will cross-reference activities to specific issues and goals to facilitate progress assessment.

The implementation program will include proposed years of implementation, planning level cost estimates, and potential partners. We will participate in a Plan TAC workshop to present and receive feedback on the draft implementation program (see Section 2.1).

BWSR requires that the implementation program be targeted and prioritized. We will target activities according to the priority issues and resources identified during Plan development. We will work with RWMWD staff and Managers to develop and apply a framework to prioritize implementation activities with consideration for priority issues, funding, and other factors.

We assume that updates to the Plan implementation program will not include revisions to District Rules and that changes to District Rules will be performed outside of the Plan update effort.

3.4 Update the Subwatershed Management Plans

Section 2 of the 2017 Plan includes 25 subwatershed management plans detailing subwatershed-specific information about land use, water quality, flooding, ecological concerns, groundwater issues, and planned activities. We will work with RWMWD staff to understand how these sections are used and identify possible revisions that can increase functionality. We will update the subwatershed management plans to reflect current data, conditions, and District programming. We assume the revisions will emphasize distilling and presenting the most critical information, cross-referencing non-essential information, and increasing document accessibility through use of graphics/tables/figures to replace text.

3.5 Compile the Complete Draft Plan

Barr staff will create a complete draft of the Plan document in digital format. This task will include compiling content drafted in other tasks as well as developing new content (e.g. “Introduction”). We will work with RWMWD staff to revise the complete draft before distributing the draft Plan for unofficial internal review. We recommend that this review include commissioners and member city, partner staff, and BWSR.

We will work with RWMWD staff to review the comments received during internal review and revise the draft Plan, as appropriate. We will present the revised, draft Plan to the Managers and seek approval to submit the draft Plan for official 60-day review (See Section 4.1).

3.6 Create a Plan Summary Document (Strategic Overview)

The 2017 Plan includes a Strategic Overview – a 28-page, standalone document that summarizes the Plan. We will update the Strategic Overview based on the updated 2027 Plan. We will develop this document in a design software (e.g., InDesign) and incorporate graphics, tables, and figures to present information in ways that are visually stimulating and accessible to audiences of varying technical

backgrounds. We will create electronic versions of the document formatted for online hosting as well as printing.

4 Phase 4 – Formal Review, Approval, and Adoption

During phase 4, we will work with RWMWD staff to guide the draft Plan through the formal review process as outlined in MN Statutes 103B.

4.1 Formal 60-day Review and Response to Comments

We will prepare a distribution letter and distribute the 60-day review draft Plan electronically to all Plan review authorities as required per MN Statutes 103B. We recommend that the District post the 60-day review draft Plan on its website for public review and comment. We will compile and organize comments received during the review period and prepare draft responses to comments. We will work with RWMWD staff to revise the responses to comments. We will present the draft response to comments to the Managers for approval. Preparing responses to comments may require follow-up discussions with individual plan review authorities, as needed.

4.2 Distribute Responses to Comments and Hold a Public Hearing

Per MN Rules 8410, the District must hold a public hearing after responding to comments. The hearing must be held no sooner than 14 days after the 60-day review period ends and at least 10 days after distributing the response to comments. Typically, few people attend this event and the public hearing is just a formality. We suggest holding the public hearing as part of a regularly scheduled District meeting. RWMWD staff will publicly notice the hearing consistent with rule and statute requirements. At the public hearing, RWMWD staff will give an overview of the draft Plan, a summary of the major comments on the Plan, and proposed responses/revisions. Barr staff will support the public hearing, as requested.

4.3 Revise and Submit Plan for Final (90-day) Review

Following the public hearing, we will work with RWMWD staff to revise the Plan according to the response to comments, additional direction from Managers, and in response to comments heard at the public hearing (see Sections 4.0 and 4.2). We will provide the revised draft Plan to the Managers and seek approval to submit the Plan to BWSR for final review and approval. BWSR has 90 days to complete its final review and take action on the Plan. Prior to BWSR Board action on/approval of the Plan, a BWSR subcommittee meets to make its recommendation for approval/disapproval of the plan. We will support the RWMWD Administrator in presenting the Plan at the BWSR subcommittee meeting.

4.4 Obtain Plan Approval from BWSR and Adopt the Plan

After receiving recommendation for approval from the BWSR regional subcommittee, we assume the BWSR Board will approve the RWMWD 2017 Plan. Following BWSR Board approval, RWMWD staff will request that the Managers approve a resolution to adopt the Plan at a regular District meeting. We will make any final revisions needed (revisions at this point are assumed to be very minor) and compile the final Plan and summary document as electronic PDFs.

RWMWD staff will host the final Plan on the District website. We will prepare a transmittal memo and distribution list and distribute the final Plan via weblink. We will prepare one printed copy for BWSR (as required). We will provide additional printed copies upon request for an additional cost outside of this scope. We will provide the District with all source data in digital format (e.g., MS Word files, tables, and GIS data).

5 Schedule and Budget

Table 1 summarizes our estimated schedule and budget. The estimated budget includes a range for Phase 2 based on uncertainty regarding how the District will choose to address the issues listed in Section 2. Alterations to the proposed partner engagement activities described in Section 1 will also impact the estimated budget.

Table 1 Estimated Project Schedule and Cost

Phase	Task	Task Description	Approximate Schedule	Estimated Cost (Task)	Estimated Cost (Phase)
1	1.1	Develop Partner Engagement Plan	Jul-Aug 2024	\$3,000	\$47,000
	1.2	Plan Update Notification	Sep-Nov 2024	\$2,000	
	1.3	City/Partner Staff Surveys	Sep-Nov 2024	\$3,000	
	1.4	RWMWD Staff Issue Workshop	Oct-Nov 2024	\$5,000	
	1.5	Manager Preliminary Issue Workshop	Nov-Dec 2024	\$3,000	
	1.6	Citizen Advisory Committee Workshop	Dec 2024	\$3,000	
	1.7	Online Survey	Jan-Apr 2025	\$5,000	
	1.8	Engagement at Community Events	Apr-Jun 2025	\$5,000	
	1.9	Initial Planning (Public Kickoff Meeting)	May 2025	\$12,000	
	1.10	Engagement Summary and Manager Issue Prioritization Workshop	Jun-Jul 2025	\$6,000	
2	--	Complex Issue Pre-Work (including meeting with Plan TAC)	Oct 2024-May 2025	\$15,000 to \$30,000	\$15,000 to \$30,000
3	3.1	Update Watershed Resource Inventory	Feb-May 2025	\$12,000	\$130,000
	3.2	Characterize Issues and Develop Measurable Goals	Aug 2025-Jan 2026	\$25,000	
	3.3	Create Targeted Implementation Program	Jan-May 2026	\$18,000	
	3.4	Update Subwatershed Management Plans	Feb-May 2026	\$50,000	
	3.5	Compile Complete Draft Plan	May-Jul 2026	\$10,000	
	3.6	Create Plan Summary Document	May-Jul 2026	\$15,000	
4	4.1	Formal 60-day Review and Response to Comments	Jul-Oct 2026	\$8,000	\$30,000
	4.2	Distribute Responses and Public Hearing	Oct-Nov 2026	\$2,000	
	4.3	Revise and Submit Plan for 90-day Review	Dec 2026-Feb 2027	\$15,000	
	4.4	Obtain BWSR Approval and Adopt Plan	Feb-Mar 2027	\$3,000	
Total			Jul 2024-Mar 2027	\$220,000 to \$235,000	

Administrator's Report

MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: June Administrator's Report
DATE: June 21, 2024

A. Meetings Attended

Saturday, June 1	ALL DAY	WaterFest
Tuesday, June 4	8:30 AM	MAWA Executive Committee
	11:00 AM	Employee Right to Know Training
Wednesday, June 5	6:30 PM	Board Meeting
Thursday, June 6	9:00 AM	Water Resources Conference Planning
Friday, June 14	8:30 AM	Woodbury Target Store Project Meeting
Monday, June 17	9:00 AM	Employee CPR/AED/First Aid Training
	1:30 PM	Meeting with Barr and Kurilla Contracting
Tuesday, June 18	1:00 PM	South District Resiliency Study Review
	2:30 PM	Maintenance Program Review
Thursday, June 20	9:00 AM	Program Manager Team Meeting

B. Upcoming Meetings and Dates

Metro Watersheds Meeting	July 16, 2024
August Board Meeting	August 7, 2024
September Board Meeting	September 4, 2024
CAC Meeting	September 24, 2024
October Board Meeting	October 2, 2024
Metro Watersheds Meeting	October 15, 2024
CAC Meeting	October 22, 2024
November Board Meeting	November 6, 2024
Watersheds Excellence Awards	November TBD
Minnesota Watersheds Annual Conference	December 4-6, 2024
CAC Meeting	December 3, 2024
December Board Meeting	December 11, 2024

C. Staff Anniversaries

The following staff have work anniversaries with the watershed in the month of July. This month it is just my anniversary. I am grateful for the years of work here at the District and the support of the board and staff.

July 15	Tina Carstens	22 years
---------	---------------	----------

D. Board Action Log and Updates

The board action log is attached. I review this list each month and add anything suggested in the previous meeting.

E. Minnesota Watersheds Updates

For the monthly newsletters go here: <https://www.mnwatersheds.com/news-letters>

The summer tour was held on June 25-26. We can use this opportunity to discuss the tour, how it went and any feedback received.

F. 2025 Budget Planning

Attached is a memo for board discussion regarding our 2025 budget process.

MEMORANDUM

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: 2025 Budget Discussions
DATE: June 21, 2024

It is that time of year again where we start to discuss the budget for the following year. I have reviewed the current year's budget and spending and asked staff and Barr Engineering to give me input on the anticipated work plan and budget issues for 2025. I will take the input from the board at our July meeting along with the staff input to develop the preliminary budget table and narrative that will come back to you at the August board meeting.

The information in this memo is to highlight the larger budget items and those that may be different than we have done in the past. Items not covered here are anticipated to remain at or near current budget levels.

At the July board meeting, I will review this memo and respond to any questions from the board. At the August meeting, I will present and review a draft budget table with a line-by-line description of the items. In September, I will present a revised budget based on our August discussions, and we will hold a public hearing on the preliminary budget. The preliminary budget and proposed levy with the reflected changes from our September meeting discussion will be sent to the county auditor by September 30, as required. This budget and levy can be modified anytime until our December meeting when we will need to approve our final budget and levy for 2025.

1. 2024 Work Program Analysis

My look at the current year budget and work plan shows that projects and programs are mostly proceeding as planned, and we should be completing most items by the end of the year that were intended to be completed. The exception to that is the water monitoring budget which is trending higher than budgeted due to the more frequent rain events this year which requires more sampling and lab expenses. I anticipate still being close in our budget for the year since much of that is front loaded in the spring and early summer but it may go over budget if the rain trends continue. I will keep the board up to speed on that

and also will be considering that information as we plan for next year.

2. Overall Budget Reserve Level

As was indicated in our 2023 audit summary, the district has kept the reserve at an acceptable level which is more than 50% of the year's general fund budget. As I am preparing the budget table I will carefully consider the reserve amount to be sure we are staying around there and we have adequate funds for cash flow and reserve purposes. Please also note that we do have a healthy contingency fund for our capital improvement funds that can be used when needed for bigger projects or items that come up during the year. Monitoring and evaluating the reserve level impacts the levy needs each year.

3. Staffing and Program Support

Salaries and Benefits - The draft budget will include salaries for existing staff and interns. Current salaries will be used in the budget with a calculated 5% overall increase and an estimated increase due to health insurance premium increases. I hope to have some projection information on insurance increases by the September meeting. In 2024, we increased the budget to account for staff salary increases due to the organizational chart changes and job promotions. A new salary survey is being completed this year which will also inform needs in this budget line item. With the reorganization and a staff retirement in the communications and outreach program, an additional hire will be needed as well as in the regulatory program although that may be able to be accomplished before the end of 2024.

Outside Program Support - There are several external programs that we have supported in the past to help supplement the work we are doing without having to add to our staff or overreach our existing staff. In the past, we have provided financial support to Watershed Partners, Blue Thumb, East Metro Education Collaboration, Cooperative Weed Management Program, and Ramsey County GIS Users Group. The entities that I have listed are all valuable programs that we get tangible benefits from. I will propose in the draft budget that we continue to support those programs as we have in the past.

4. Building Maintenance and Equipment

Every year as the building gets older, we evaluate the potential needs and related budget required. I anticipate keeping the budget item similar for 2025 to address needs as they arise. We are also evaluating our district vehicle needs as we add staff. We are purchasing a new vehicle this year and don't anticipate any replacement in 2025 but will need to think through vehicle and other larger storage needs between the two garages.

5. Natural Resources Program

There won't be any major needs in the NR program in 2025. I anticipate keeping the program budget similar to that of 2024. The work in the Keller Park area will continue for restoration work. We will continue to work in the Phalen and Owasso Chain of Lakes on carp management as we maintain a healthy fish population in those lakes. And as usual, the maintenance of our hundreds of acres of past restoration sites continues. Staff are still evaluating the shoreland assessment and management program and will bring more information to the board on activities and budget needs as the process continues.

6. BMP Stewardship Grant Program

We continue to be successful in our BMP grant program and have some great projects planned for 2024. We would anticipate a similar interest in the program for 2025 in regards to the usual grant program projects. A larger project with St. Paul Youth Services is progressing and may be implemented in 2025. More information will be gathered over the next several months regarding the street sweeping study and 2024 success in order to make a suggestion for the continued efforts in 2025. As discussed with the board previously, we may want to consider a higher amount of grant funds in order to do more street sweeping or assist our cities in purchasing more equipment and look at approving funds for a 2-3 year term.

7. Communications and Outreach Program

There will be some changes in staffing in this program and some significant work on programming and strategic planning. 2025 is the 50th Anniversary of Ramsey-Washington Metro Watershed District so there will be budget considerations as we consider how we promote and communicate and celebrate that anniversary. We will also be considering the watershed management plan outreach needs in 2025 that may require additional budget. This is all alongside our yearly program needs in signage and graphic design as well as website updates and other communications tools.

8. Water Monitoring Program

In 2025, we are proposing a significant monitoring effort on Battle Creek and Fish Creek that will inform both our water quality needs for the creeks as well as the flood risk reduction strategies upstream. This effort will require additional equipment and lab analysis costs that will be factored in. We will also have more usual monitoring equipment purchasing and maintenance needs in 2025. There is some older equipment that needs replacing as part of a rotation.

9. Permit and Inspection Program

No new budget needs have been identified for the permitting and inspection program. A review of the engineering budget needs as it relates to the regulatory program will be reviewed.

10. Watershed Management Plan Updates

The board will be reviewing a proposed scope summary for this update in the packet this month. That scope summary will included proposed engineering budget needs for 2025.

11. Research

The district will continue to fund research and seek opportunities to do more research to advance our work. The board will be reviewing a scope summary for the proposed feasibility study regarding the internal load management of Wakefield Lake. I anticipate that project to be funded through our research budget. We will also receive another request to support the Minnesota Stormwater Research Council (MSRC), which the board has supported for several years. Paige is now serving on the council review board and we continue to benefit from the research being completed.

12. Capital Improvements Planning and Projects

Flood Damage Reduction Fund – Over the last several years, the board has added money to the fund to prepare for future projects as feasibility studies were being completed. We have been successful with this planning to implementation model with projects completed and homes removed from the flood risk.

For 2025, we anticipate having projects in the Ames Lake area and are also waiting to hear if we received grant funds to supplement the district funds. We will also consider projects in the Kohlman Creek study for implementation in 2025. We will also be reviewing the Non Beltline Area Resiliency study for possible project implementation in 2025.

Keeping this fund healthy has shown valuable, as we have seen over several years of flood management. While we have implemented and completed much work, it is wise to continue to have the funds available to act swiftly as needs arise. This is also valuable to our city and county partners as they ask for assistance on these matters.

Targeted Retrofit Projects – With the implementation of our SVI mapping criteria and development of our WARP tool, future project sites will be tracked and assessed for implementation potential. Staff will utilize this tool summer of 2024 to identify projects in

priority subwatersheds and SVI areas for implementation in 2025. Projects anticipated for 2025 have not yet been identified but will be included in future budget information.

Wetland Restoration Projects – as discussed with the board recently regarding the district’s wetland programs and policies, wetland restoration opportunities can be found throughout the district and have been identified. The Cottage Place Wetland Restoration was planned several years ago but was not implemented at that time. It has now been awarded to a contractor but due to federal tree clearing restrictions, a majority of the work will not happen until 2025. These funds will carry over and staff will continue to evaluate potential sites for future wetland restoration projects. Staff will propose further funding for future projects at a future time.

Maintenance and Repair Project— we continue to find our CIP Maintenance and Repair budget adequate even with the additional items we address each year. We expect a similar level of need for our annual contract and will continue to offer our cities the ability to add their pond clean-out (or other Stormwater maintenance needs) projects to our contract. In 2025, we will need to budget additional funds to complete the 5 year formal inspection process for the Beltline storm sewer system including potentially doing some survey work to establish both horizontal and vertical information for the tunnel.

Board of Managers 2024 Action Log

Wednesday, July 10, 2024

Item	Anticipated Action Date	Means of Action	Completed
Governance Manual	March 2024	RBA – Approval	March 2024
West Vadnais Lake Boundary Change	May 2024	Board discussion	May 2024
Shoreland Condition Assessment and Planning	May 2024	Presentation and Discussion.	May 2024
Addressing Internal Load in Lakes (aeration and alum)	Spring 2024	Board discussion	June 2024
Shoreland Assessment Next Steps	Summer 2024	Board Discussion	
Impervious Surface Reduction Planning	Summer/Fall 2024	Presentation and Discussion.	
Chloride Use Reduction/Low Salt Design/Calibration Techniques	Summer/Fall 2024	Presentation and Board Discussion	
PFOS Update	Fall 2024	Presentation and Board Discussion	
CAC 2025 Work Planning	Fall/Winter 2024	Board Discussion	

Project and Program Status Reports

Memorandum

To: Board of Managers and Staff
From: Tina Carstens, Brad Lindaman, and Erin Anderson Wenz
Subject: Project and Program Status Report – July 2024
Date: July 3, 2024

Note: The location, brief description, and current status of each project described below can be found on the [2024 RWMWD engineering services story map](#).

Project feasibility studies

A. Ames Lake area flood risk reduction planning study (Barr project manager: Matt Metzger; RWMWD project manager: Tina Carstens)

The purpose of this study is to complete a planning-level evaluation to identify potential modifications that reduce flood risk to homes and businesses near Ames Lake, supported by the City of Saint Paul. Work includes coordinating discussions with the city; reviewing potential pipe alignments, land acquisition costs, utility conflicts, and permitting issues; and completing the related design. This follow-up planning study was identified in the Beltline resiliency study.

The Housing and Redevelopment Authority (HRA) board is reviewing its property portfolio and developing a long-range plan for several properties, including those near Ames Lake. This month, the HRA provided RWMWD with an inventory of all HRA-owned parcels and requested input on whether any of the parcels would be valuable for achieving RWMWD goals. Barr and the RWMWD are reviewing the information and will provide feedback to the HRA on whether parcels could be useful in meeting flood risk reduction or water quality goals by either utilizing the entire parcel or incorporating stormwater treatment beyond current requirements. The HRA intends to consider information from public partners, including the RWMWD, and recommend a specific disposition for each property based on what it could be used for versus what its best use might be. The HRA is targeting fall 2024 to finalize its recommendations.

In March, HRA leadership expressed support for moving forward with a grant application. While completing a comprehensive review of its portfolio, the HRA has indicated that it anticipates providing direction in mid-2024 on whether it would support the proposed flood risk mitigation project on the parcel(s) it owns near Ames Lake. The RWMWD is still waiting for direction. Following receipt of feedback from the city and HRA, a feasibility report will be prepared documenting considered concepts, stakeholder feedback, cost estimates, permitting requirements, and recommendations for future system modifications. The draft report is anticipated to be available for the RWMWD to review this fall, depending on when HRA feedback is received. An MPCA Implementation Grant for Stormwater Resilience application was submitted for the project, which, if

funded, would offset RWMWD funding. Final design and construction are dependent on input from the HRA but are anticipated to take place in 2025 or later. Notification of whether the project receives MPCA grant funding is scheduled for July 2024.

B. Phalen Village flood risk reduction (Barr project manager: Brandon Barnes; RWMWD project manager: Paige Ahlborg)

The purpose of this study is to evaluate modifications to reduce flood risk near Phalen Village north of Lake Phalen by lowering flood levels to remove structures from the 100-year floodplain. The feasibility study was completed in 2022. In 2024, the RWMWD is working with the City of Maplewood to incorporate modifications to the storm sewer system into the city's 2024 street improvement project. This is a follow-up planning study identified in the Beltline resiliency study.

This month, Barr prepared the wetland delineation report and joint permit application. The wetland delineation is for the new outlet proposed from the wetland north of East Shore Drive that was recommended in the RWMWD feasibility study. After the initial wetland delineation was complete, the City of Maplewood received additional questions from the residential property owner regarding the city's project. The property owner requested to meet with the city prior to granting further access. The city is coordinating with residential property owners. After the city receives property owner approval to access the property, the wetland boundary will be field verified. Construction of storm sewer modifications will occur this summer as part of the City of Maplewood's street improvement project.

C. Resiliency study for non-Beltline tributary areas (pre-planning study and evaluation of existing data) (Barr project managers: Jay Hawley, Lulu Fang; RWMWD project manager: Tina Carstens)

The purpose of this project is to evaluate potential system-scale modifications to reduce flood risk within the portion of the RWMWD that was not evaluated as part of the Beltline resiliency study. This portion of the watershed includes the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds. The evaluation will identify modifications to the drainage system that could reduce flood risk to habitable structures within the 100-year floodplain of district-managed water bodies—including actively managing outlet control structures on Tanners Lake, Battle Creek Lake, and Carver Lake. This evaluation will allow the RWMWD to identify potential flood risk mitigation strategies that address the portion of the district that is not tributary to the Beltline.

This month, Barr finalized the project report after discussing it with the RWMWD and will present project findings at the July 10 board meeting.

The project report can be found on the website: [South District \(Non-Beltline\) Flood Risk Resiliency Study](#)

D. Owasso Basin area/North Star Estates improvements (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost of flood risk reduction strategies in the Owasso Basin/North Star Estates area by removing habitable structures from the floodplain. Stakeholder outreach with the City of Little Canada is important to this effort. This study is a continuation of the Owasso Basin bypass study, which laid out several phases of implementation and areas of further study.

Previously, the RWMWD received feedback from Saint Paul Regional Water Services and North Star Estates property management that they are not interested in partnering on drainage modifications to their respective properties. The City of Little Canada is supportive of the proposed modifications; however, replacing just the culvert provides only an incremental reduction in flood risk.

Barr and the RWMWD have informed the City of Little Canada and North Star Estates property management of the area's flood risk and specific flood-prone structures. We prepared a summary of recent projects, studies, and future modifications that could be implemented to reduce flood risk. Following RWMWD review, the letter will be shared with the City of Little Canada, Saint Paul Regional Water Services, and North Star Estates. For now, the project is on hold, as two landowners are unsupportive. Barr and the RWMWD will continue to work with the city and landowners and, if new opportunities arise that have landowner support, will work with all stakeholders to identify feasible flood risk options.

E. Street sweeping (Barr project manager: Michael B. McKinney; RWMWD project manager: Paige Ahlborg)

The purpose of this study is to support the 2024 enhanced street-sweeping grant program.

This period, Barr and the RWMWD met with a City of Roseville intern whose position is funded with support from the street sweeping grant program. The meeting focused on means and methods of collecting, tracking, and testing swept material. Additionally, Barr and the RWMWD met with Maggie Karschnia from the University of Minnesota to share information about the RWMWD's street sweeping program for reference in the Minnesota Pollution Control Agency (MPCA) and University of Minnesota "Clean Sweep" educational series.

F. Maplewood Mall 2024 assessment (Barr project manager: Fred Rozumalski; RWMWD project Manager: Paige Ahlborg)

The purpose of this effort is to conduct a comprehensive assessment of Maplewood Mall, similar to the effort conducted in 2018. The assessment leverages an iPad field data application to collect information on the site's tree trenches, rain gardens, porous pavers, and educational features. The information collected as a part of this effort will be presented at the Minnesota Water Resources Conference and the Minnesota Watersheds Annual Conference, as well as during the Minnesota Watersheds Summer Tour in June. In addition, this effort will help define tree replacements in groves where trees are doing poorly (especially in the north and northwest tree groves) and to guide repairs for a garden that is no longer draining properly.

On May 23, the RWMWD and Barr collected information about the health of plantings and trees as well as the structural integrity of features across the parking lot. We recorded the information and photos in an iPad data collection app that can be used to create maps, which will be included in the assessment report completed later this year. Overall, the site has fared well over the last 15 years. Recommendations for repairs, as well as any necessary tree and planting replacements, will be included in the report.

G. Payne-Phalen Natural Resources Inventory (Barr project manager: Brendan Dougherty; RWMWD project manager: Paige Ahlborg)

The purpose of this effort is to identify and prioritize restoration opportunities for the preservation of existing green space, strengthening of ecological connectivity, and enhancement of wildlife and pollinator habitat for the Capitol Region Watershed District (CRWD) and RWMWD, Ramsey County, the City of Saint Paul, and Saint Paul's District Councils 4 and 5.

In September 2023, Barr conducted a natural resource inventory (NRI) at 43 sites within portions of Saint Paul's District Councils 4 and 5, on the east side of the city. The CRWD led the project in collaboration with the RWMWD, Payne-Phalen Community Council (Planning District 5), and Dayton's Bluff Community Council (Planning District 4). Barr documented current site conditions, summarized key issues and opportunities for improvement, and developed goals to help guide management for the natural resources identified within the project area. The final report is intended to serve as a foundation for further planning and investment within the project area to implement transformative natural resource protection and enhancement actions. A summary memo describing this effort is included below for the managers' review.

The project report can be found on the website: [Part 1](#) & [Part 2](#)

Technical Memorandum

To: RWMWD Board of Managers
From: Brendan Dougherty – Barr Engineering Co. (Barr)
Subject: Natural Resource Inventory and Enhancement Opportunities – Dayton's Bluff and Payne Phalen Community Council
Date: July 2, 2024
Project: 23/62-1487
c. Paige Ahlborg (RWMWD), Tina Carstens (RWMWD)

Introduction

This memorandum summarizes the natural resource inventory conducted by the Capitol Region Watershed District (CRWD), working with Ramsey-Washington Metro Watershed District (RWMWD), Payne Phalen Community Council (Planning District 5), and the Dayton's Bluff Community Council (Planning District 4) within portions of Saint Paul's district councils 4 and 5, on the east side of downtown Saint Paul. The purpose of the study is to guide watershed districts, the

City of Saint Paul (City), and community groups to characterize, prioritize, protect, and improve natural resources within the project area.

Barr and the project partners conducted a desktop NRI throughout the project area, and then completed field investigations at 43 sites throughout the project area. The inventory data and management strategies provided within the report is intended to help CRWD, RWMWD, and the City by:

- 1) Identifying natural resources within the project area
- 2) Quantifying the quality of existing plant communities
- 3) Identifying degraded areas and management issues
- 4) Identifying opportunities for natural resources protection and enhancement
- 5) Providing information that can be used to develop management priorities

The results of the field investigations and proposed approach for managing natural resources can be used as a tool by CRWD, RWMWD, and partners to prioritize and implement natural resource protection and enhancement efforts as opportunities arise.

Methods

As part of the desktop analysis, Barr developed a screening method to identify specific sites for detailed field investigations. Using the results of the initial screening and input from CRWD, RWMWD, and the project partners, Barr identified 43 sites for detailed field investigation.

Following the desktop analysis, in September 2023, Barr ecologist and professional landscape architects conducted field investigations to document the existing conditions at the 43 identified sites. While in the field, notes, photographs, plant community boundaries, and all relevant information were recorded on tablet computers using GIS mapping software. Investigators documented existing land cover, identified plant community types, characterized ecological quality, identified unique physical features (such as slope, aspect, erosion, standing water etc.), and inspected for evidence of past disturbance or ongoing management practices (if any).

Results

Following field investigations, Barr documented the current site conditions and summarized key issues, opportunities for improvement, and developed goals to help guide management for the natural resources identified within the project area. Primary challenges faced within the study area include habitat fragmentation due to urban development, invasive species and a lack of plant diversity, soil degradation, altered urban hydrology, urban heat island, and the evolving detrimental effects of climate change.

To focus resources and help implement natural resource management strategies across the project area a prioritization matrix was developed based on a set of twelve criteria. The prioritization categories were developed with project partners and incorporates both ecological and social factors that would likely influence the impact and success of natural resource management efforts.

Additionally, accompanying target plant community and restoration phasing maps were developed for each site to further help prioritize efforts as site managers identify project opportunities and begin work within each specific site.

Responsibility for implementation of any proposed opportunities would depend on land ownership and type of activity proposed. Opportunities identified for the highest priority sites are located within City of St. Paul Parkland and include Phalen Regional Park that is located within the RWMWD. Full implementation for recommendations at these priority sites could potentially be supported, funded, and ultimately achieved with collaboration from the watershed districts, District councils, Ramsey County, neighborhood organizations, and the residents within. Review and updates to the document is recommended every 5 years as new opportunities for funding or engagement may present themselves.

H. Watershed approach to retrofit projects (WARP) (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

In 2022 and 2023, Barr reviewed the history of the retrofit program to help inform considerations for future projects. This “retrofit inventory” resulted in an updated database of over 17,000 properties and geographic information system (GIS) maps of built and considered projects. In 2024, Barr will work with the district to consider the intersections between the database and other district-wide initiatives and information to guide retrofit project selection more systematically.

This period, Barr reviewed the heat mapping of WARP parcels with district program managers to identify potential sites to visit this summer and evaluate potential projects on those sites. Next period, Barr and the RWMWD will perform site visits to identify potential candidates for either retrofit or stewardship grant projects and natural resources projects.

Project Operations

I. Lake-level station maintenance and rain gauge installation (Barr project manager: Chris Bonick; RWMWD project manager: Dave Vlasin)

The purpose of this project is to continuously measure and record lake levels and display real-time and historical data in graphs on the RWMWD website for the following lakes: Phalen, Snail, Owasso, Wabasso, West Vadnais, Battle Creek, Tanners, Spoon, and Twin. Typical operation and maintenance tasks for the lake level stations and associated webpage continue. A few station-specific updates are included below.

Tanners Lake station

The HSA bubbler system has been replaced with a Campbell Scientific radar sensor. During the first few years, we experienced repeated issues with operation of the bubbler system, mainly due to the long run of the river line (i.e., air line) into the lake and the heavy vegetation in the area of the sensor. The RWMWD and Barr determined that a radar sensor installed inside a stilling well on the

lake's shore would be a better option. The new radar sensor has been temporarily mounted on a post that stands in the lake. It will be moved once the stilling well has been constructed.

Twin Lake station

The Twin Lake station experiences frequent cellular signal issues. The RWMWD and Barr ordered a new directional antenna and external modem to hopefully correct this issue. Additionally, the GFCI outlet often trips so that the battery charger does not maintain the station battery. The RWMWD and Barr are currently troubleshooting this problem.

New rain gages (Phalen, Tanners, Owasso, West Vadnais, Spoon, Snail, and Twin)

The six new rain gages installed earlier this spring are functioning well and recording data. Currently, the rain data is being uploaded to the VDV (Vista Data Vision) web page viewable by the RWMWD and interested municipalities. The district is considering options for displaying the data on its website. One more rain gage will be installed at the Twin Lake station. Installation is scheduled for the first week of July.

Capital improvements

J. Woodbury Target store stormwater retrofits (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to create concept-level and final designs and construct stormwater BMPs for Woodbury's Valley Creek Target shopping complex.

Construction for the Woodbury Target project began in mid/late May and is still underway. The project has had setbacks due to frequent rain and other factors, forcing the RWMWD and Barr to make changes that will be discussed in greater detail at the July board meeting.

K. Roosevelt Homes (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to create construction documents for a multi-phase flood management and water quality improvement project at the Roosevelt Homes public housing area in Saint Paul.

Barr is working with the property owner and the City of Saint Paul to design the final phase that will help direct flow across the site into the two stormwater basins. This period, Barr observed site preparation and planting of the two stormwater basins. As we await owner feedback, we will continue to develop designs for construction in early 2025. An MPCA Implementation Grant for Stormwater Resilience application was submitted for the project, which, if funded, would offset RWMWD funding. Notification of whether the project will receive grant funds is anticipated in July 2024.

L. Targeted retrofit projects 2024 (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design BMP retrofits on previously identified commercial, school, and faith-based properties throughout the district, as well as to provide bid assistance and oversee construction.

This period, Barr prepared for a potential second phase of work at St. Pascal Baylon Catholic Church. In addition, we developed a literature review to respond to retrofit site partners about tree sizes and the benefits of planting smaller trees. Field assessments were conducted using the WARP tool to start identifying potential targeted retrofit projects for 2024.

M. Stewardship grant program (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to 1) provide BMP design and review services to cost-share applicants throughout the RWMWD on an as-needed basis and 2) support development of the stewardship grant program.

Demolition at Woodland Hills Church (24-16 CS) started on June 17. On June 18, Barr fielded questions and concerns from the construction contractor; the contractor unearthed multiple layers of the bituminous parking lot that had been historically constructed on top of one another. This situation impacts the cost of removals, hauling, and disposal, with significant cost implications for the church. Barr is working with the RWMWD, owner, and contractor to determine a path forward. A memo is included in the Stewardship Grant Program section for consideration.

N. Pioneer Park stormwater reuse (Barr project manager: Jennifer Koehler; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to complete the final design, plans, and specifications for a stormwater reuse system in Pioneer Park that will reduce the use of groundwater for irrigation and phosphorus loads to downstream water bodies.

To date, Peterson has completed the following work: dewatering; lowering of the channel below the existing pedestrian bridge between the north and south basin; installation of the wooden skimmer, intake structure, and grading; preparation of the subgrade; electrical conduit installation; restoration of specific areas, and pipe modifications in the pavilion building. Limited work has been completed in the last month. Pay application 1 has been reviewed and approved. Upcoming work will include connections to the existing irrigation system, concrete pad reinforcement and pouring, and final stabilization of the site. We are still waiting for several submittals from Peterson Companies that have been requested several times. Per a final timeline from WaterTronics, delivery of the pump and treatment system is not expected until late August, and Peterson Companies will return then to install, connect, and bring the reuse system into operation.

O. Fish Creek tributary improvements (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)

The purpose of this project is to design and implement vegetation improvements around Double Driveway Pond, as well as stream stabilization improvements in the Fish Creek tributary upstream.

During this period, Barr worked with the appraiser to provide information needed to perform the land assessment. We resumed the design process to finalize plans and technical specifications, and we will keep the board up to date on developments and schedule changes.

P. Cottage Place Wetland restoration (Barr project manager: Brendan Dougherty; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design and restore a degraded wetland on City of Shoreview property located near the Cottage Place cul-de-sac. The project will involve the creation of plans, bidding, and construction administration to provide additional stormwater treatment and restore wildlife habitat within the project area.

During this period, Barr coordinated construction contracting with Dimke Excavating following its successful bid award. After receiving the formal notice-to-proceed document, we will schedule a preconstruction meeting with the contractor. On-site invasive species management may occur this summer, but major construction operations will not start until after November 15 to avoid potential impacts to bats and birds.

Q. County Road C culvert (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design and construct a box culvert where Kohlman Creek crosses under County Road C (owned by Ramsey County) in Maplewood. The culvert was identified as a flood risk reduction improvement project in the Kohlman Creek flood risk reduction feasibility study.

Barr opened bids on June 3 for the culvert replacement project. Bituminous Roadways' bid was presented to the board of managers at the June 5 board meeting, and the board approved it. Barr has begun reviewing project submittals from Bituminous Roadways. Additionally, an on-site pre-construction meeting was held on June 26 for Bituminous Roadways and public/private utility companies to discuss the project. Currently, the box culvert procurement lead time is approximately 2.5 months, with an estimated earliest delivery date of September 16, 2024. Barr will continue to work with Bituminous Roadways on this schedule change and will keep Ramsey County informed.

R. Kohlman Creek flood risk reduction projects: final design (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design multiple flood risk reduction improvement projects that were previously identified in the Kohlman Creek flood risk reduction feasibility study. The improvement projects include PCU Pond berm grading, 13th Avenue storm sewer improvements, and berm grading and outlet installation in backyards of homes along County Road C.

This period, Barr coordinated with Ramsey County Parks to evaluate the raising of an access road to prevent the 100-year flood from impacting structures south of County Road C. We provided a concept design and existing survey information to Ramsey County Parks and discussed the proposed concept with parks staff. Ramsey County identified that the access road is actually within City of

Maplewood right of way. Barr also continued evaluating how changes to the flow duration curve along the creek could affect the existing cross section. Results of the evaluation will be used to determine what modifications, if any, are needed along Kohlman Creek. Design of modifications to reduce flood risk along Kohlman Creek will continue through 2024. The tentative schedule is to solicit bids during winter 2024-2025 and construct in summer 2025.

CIP project repair and maintenance

S. Routine CIP inspection and unplanned maintenance identification (Barr project manager: Gareth Becker; RWMWD project manager: Dave Vlasin)

The purpose of this effort is to maintain the RWMWD's existing capital improvement projects as they arise outside the normal annual maintenance project (below).

Recently, Barr and the RWMWD met to discuss ownership and maintenance responsibilities associated with all past district projects for updates to the district's database and inspection lists. In addition, some minor maintenance was conducted on the Keller channel control structure.

T. 2024 CIP maintenance and repairs projects (Barr project managers: Gareth Becker; RWMWD project manager: Dave Vlasin)

The purpose of this effort is to maintain the RWMWD's existing capital improvement projects through this annual maintenance project.

To date, work is complete on all sites except Aldrich Arena. The county asked the contractor to postpone work on the Aldrich site during peak graduation season. This work is expected to be completed by receipt of this memo. The contractor has submitted a partial payment application again this month, with final payment anticipated next month. We assume no change to the overall schedule of this year's construction project. The contractor expects that all remaining (punch list) work will be finished prior to the final completion date.

U. Beltline Mississippi Branch outfall replacement project (Barr project managers: Joe Welna and Nathan Campeau; RWMWD project manager: Dave Vlasin)

The purpose of this project is to replace the final approximately 70 feet of the Beltline Interceptor adjacent to the Mississippi River that failed in July 2023.

In early July 2023, a sinkhole was discovered over the Beltline Interceptor Mississippi Branch alignment, just upstream of the outfall into the Mississippi River. An inspection inside the tunnel revealed two holes in the sides of the large steel pipe section about 10 feet from the outfall to the Mississippi River and another tunnel area needing immediate attention. During the repair work, it was clear that a more extensive, long-term repair would be needed for approximately 70 feet of corroded steel tunnel. Barr completed hydraulic evaluation of several repair alternatives and construction feasibility as well as a cost estimate of the selected alternative, which includes full replacement of the steel pipe section.

In June, we completed final design and placed the project out to bid. We facilitated the bidding process and opened bids on June 28. In the attached memo, we recommend that the managers award the bid to the lowest responsible bidder. Construction and repair are planned for late fall and winter 2024-2025.

V. Natural Resources Update – Paul Erdmann

Phase 1 of the **Keller Shoreline Project** is complete. We are now moving into maintenance mode for this site. There is a proposed Phase 2 of this project, but due to high water levels and grant funding, the timeline for Phase 2 is to be determined. We do plan to plant several hundred native emergent plants (arrowhead, bulrush, rushes and more) along the shoreline in July or August.

Keller Shore Phase 1 By the Numbers

- **263** students engaged
- **3,968** number of plants planted (plus seed mix)
- **50** different species (more in seed mix)
- **442** NR Program labor hours
- **858.32 ft** Water Level April 29th (beginning of project)
- **859.16 ft** Water Level June 23, 2024 (highest level this summer, likely higher at one point but there was an equipment failure)



NR Crew upon completion of Keller Shore project

Carp Management In 2009, we started managing the common carp in our watershed, to improve water quality and aquatic habitat. This work started in the Phalen Chain. After successful carp management efforts there, in 2017 we started managing carp in the Owasso chain.

When carp management first began in Lake Owasso there were an estimated 15,000 carp, with a biomass of 200 lb./acre. Anything over 100 lb./acre is considered to be ecologically damaging- and this 100 lb./acre is our threshold and our goal, to keep the carp population below 100 lb./acre. Initial removal efforts were very successful. In 2017 and 2018, 3,400 carp were removed from Owasso and Wabasso.



Carp Solutions crew captures carp between Owasso and Wabasso

In the recent drought years, carp movement has been slow. For instance, Owasso was not draining to Wabasso last summer, so we didn't catch any carp there last year. Also, our previous management has been successful, and carp aren't showing up in the numbers they once did. That being said, at the end of last year, Owasso was still believed to be slightly above the goal of 100lbs/acre, our only lake thought to be above our threshold. I'm happy to report, with all of the rain we have had, carp are running again-

and we have removed 735 carp so far this year- and 635 of those have come from the Owasso Chain, most of them from Lake Owasso.

Maintenance, maintenance, maintenance The Keller Shoreline project pulled us away from managing our other sites during a critical time, April and May. We were able to conduct several prescribed burns this spring, which was critical with the mild winter, good conditions, and anticipated time away from early season management. However, in June we played catch up and performed days and days of vegetation maintenance at Lake Phalen, Snail Lake and Keller Regional Parks, Lake Owasso, Keller and Goodrich Golf Courses, Keller Creek, and some of our smaller sites. After years of drought, plants- both native and invasive, seem to have some pent-up energy and are growing very robustly. I am happy to report we are largely caught up on maintenance thanks to a diligent and hard-working crew.



Maintenance on a rainy day at Goodrich Golf Course

Minnesota Watersheds Summer Tour The NR team assisted with prep work for the Minnesota Watersheds Summer Tour. Pat and Joe talked about our 21 years of restoration efforts at Keller Golf Course during the lunch tour stop, and Paul spoke about our carp management program, stewardship grant program, and shoreline restoration at Lake Owasso County Park. Paul was joined by some of our project partners- Mike Goodnature and Gus Blumer, Ramsey County Parks, Tom Wesolowski, City of Shoreview, and Matt Metzger, Barr Engineering, who spoke about the stormwater BMPs, park renovations, and how a combination of fortunate timing, great and willing partners, and a little hard work can go a long ways in improving water quality and benefitting our local communities.



Above: Joe wows tour attendees at Keller Golf Course

Below: Project partners discuss stormwater BMPs and partnerships at Lake Owasso



W. Public Involvement and Education Program – Sage Passi

Teamwork Revitalizes Woodbury Elementary Rain Garden



(Left): Mulching by 4th and 5th Woodbury grade students: (Center and Right): Anna Barker, Judy Koster (Washington County Master Gardeners) and Stephanie Wang (RWMWD Water Steward and Board member) provide assistance for classes while Tracy Leavenworth demonstrates how to plant.

On May 29, RWMWD education staff Sage Passi and education consultant Tracy Leavenworth teamed up with Washington County Master Gardeners to work with 2 Woodbury Elementary classes (one 4th and one 5th grade class) to replant the northwest corner of one of the two large rain garden basins at the entrance road to their school (planted in 2017). Thank you to Master Gardeners, Judy Koster and Anna Barker and Stephanie Wang, RWMWD Water Steward who helped with prep and planting, Lori Maxfield, Community Stewardship Facilitator from Washington Conservation District who helped with pre-lessons, planning and planting and Phyllis Webster, RWMWD Water Steward for providing a truck and her labor when we worked together to pull out and haul a truckload of weeds to the compost site in St. Paul from the re-planted area of the rain garden. Lots of high fives and positive comments from all the people walking by on the trail next to the rain garden! This is a highly visible project!

Thank you to our WaterFest 2024 Education Volunteers!!!

Thank you to the volunteers who helped us for two days in the WaterFest set-up and ran our plant-give-away table! Once again, retired science teacher from Farnsworth Aerospace, Sherry Brooks (above right)

returned to the Lake Phalen pavilion to help us share the native plants grown by students in classrooms at L'Etoile du Nord, Weaver Elementary, St. Johns, Harmony Learning Center and American Indian Magnet. Thank you also to Water Steward, Bobbie Scott! We appreciate the L'Etoile du Nord students who carried the Watershed banner in the parade!

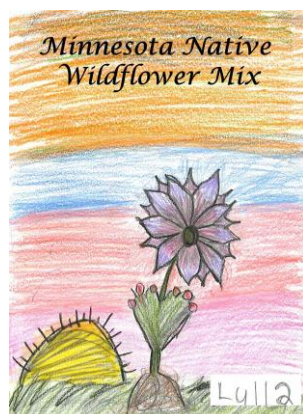


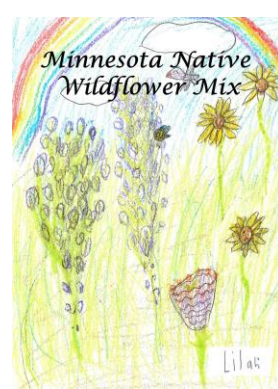
Kudos to the School Seed Packet Art Winners for WaterFest 2024



Photos above are of several of the 4th and 5th grade students from L'Etoile du Nord and Weaver Elementary whose art was chosen for the native seed packet art contest and their teachers, Henriette Bissoy (left and center) L'Etoile du Nord and Kathryn McCarrick (right) - Weaver.

Thank you to the students from American Indian Magnet School, Weaver Elementary and L'Etoile du Nord who created seed packet art designs for the native seed packets given away at WaterFest. The seeds will also be given out at these summer events (Urban Roots' Rivoli Bluff Bash (July 15), East Side Boys and Girls Club's National Night Out (August 4) and the Pollinator Festival at Lake Phalen (August 11) sponsored by Wakan Tipi. RWMWD will have a booth at each of these events. Below are the winning seed art designs for the seed packets.





Wilderness in the City Native Demonstration Project on Keller Island



A Minnesota Conservation Corps youth team helped with the weeding and planting on June 26 at Keller Island.

We are in the midst of completing the Wilderness in the City Pollinator Demonstration Garden on Keller Island in Maplewood next to the pavilion just south of Highway 36 and Arcade (Highway 61). This is a high visibility Ramsey County Park site in our district with many people coming to the island to hike, photograph, fish, bird watch, practice dance and martial arts and hold family and community picnics. This demonstration project is a collaborative effort with Wilderness in the City/Metro Blooms/Blue Thumb/RWMWD Education Program/Ramsey County Master Gardeners/Water Stewards and Lawns to Legumes.

On June 26 Sage Passi teamed up with Metro Blooms Lawns to Legumes and Special Projects Manager Alexandra Zerzan to engage Minnesota Conservation Corps high school youth from the Minnesota Valley National Wildlife Refuge and Metro Blooms-recruited community adult volunteers to plant native seedlings in the prepared beds. Before that, on May 15 we engaged two American Indian Magnet fifth grade classes, parent volunteers, Ramsey County Master Gardeners, Metro Blooms staff and volunteers and Water Stewards in planting several areas in the garden. We will continue to work with Ramsey County Parks staff to finalize aspects of this garden in front of the pavilion and insure that the signage for this site will be completed with the support of Wilderness in the City, Ramsey County Parks, Wakan Tipi and RWMWD. Signage will also be installed at the Battle Creek Wilderness in the City project in Battle Creek Regional Park in the large-scale garden planted by volunteers and classes in the spring and fall of 2023.

East Side Boys and Girls Garden on the state MAWD Tour on



Participants on the state MAWD tour visited the demonstration native garden and sculptures at the East Side Boys and Girls Club in St. Paul while touring adjacent flood control projects next to the Roosevelt Homes. A set of eleven photo signs depicting this three-year project were also on display in the garden and will be used at the National Night Out event there in August.

X. Communications and Outreach Program – Lauren Hazenson

This month, the Communications and Engagement Department was officially formed with three staff: Lauren Hazenson, Communications and Engagement Manager; Sage Passi, Engagement Specialist; and Carrie Magnuson, Communications Specialist. Job descriptions for each position are being finalized, and the team will be creating a departmental plan to set goals and objectives for work through 2026.

Current Projects

WaterFest Numbers and Audience Experience Survey



In past years of WaterFest, completed passports or wristband counts have served as the primary method to estimate audience numbers. As not all attendees complete a waiver or participate in the Passport Odyssey, the accuracy of these numbers was dependent on correctly determining the percentage of the overall audience who completed these activities. This year, we placed ROTC volunteers with counters at three locations where attendees typically enter the festival to get a close estimate. It is likely some attendees were not counted, but this method is commonly used at outdoor events to track audience numbers year to year.

- Counted WaterFest Attendees: 2,319
- Attendee surveys completed: 169 (7% of counted attendees)
- Surveyed attendees who were familiar with the event's message of surface water conservation: 81%



- Surveyed attendees who recognized RWMWD as the event host: 59%
- Surveyed attendees who committed to at least one water-friendly practice or to further education: 100%

The survey result charts and a copy of the survey is included as a supplement at the end of this report.

Farmer's Market and Event Outreach Update

Communications and Outreach staffed tables at the Vadnais Height Ice Cream Social, Aldrich Arena Farmers Market, Roseville Farmer's Market, and Hmongtown Marketplace in St. Paul. In-person engagement at these events allows staff to gauge interest in various programs, offer resources and education, and answer common resident questions. Our team will be at another four events and farmer's markets in July.

Minnesota Watersheds Summer Tour



Communications assisted with the Minnesota Watersheds Summer Tour by providing event photography for the tour and a photo booth station at dinner. Additionally, a video on the Keller Golf Course project was created for the lunch to outline the 20 year history of the partnership.

Social Media (Facebook, YouTube, Instagram)

Facebook

Reach: 1,685

Engagement (likes, shares, comments): 495

Followers: 1,730

Instagram

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report July 2024
Date: July 3, 2024

Page 18

Reach: 1,834
Engagement: 40
Audience: 938

Youtube

Views: 730
Watch time (hours): 20.7
Subscribers: 343
Viewers: 593

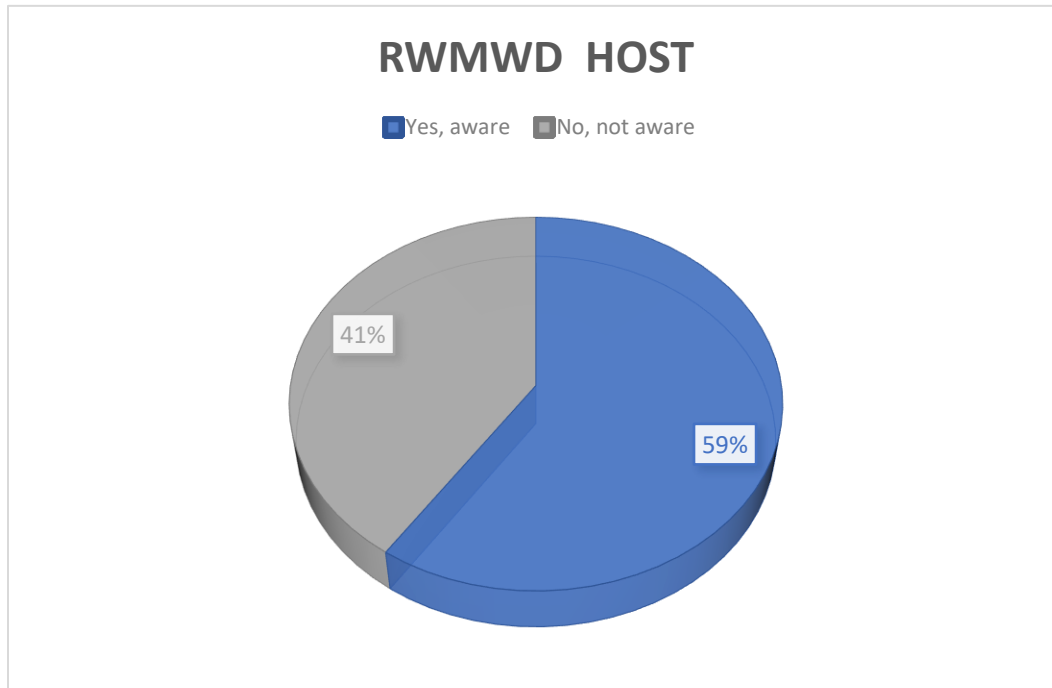
Resident Communications/Professional Development/ Public Meetings, Misc.

- Minnesota Association of Government Communicators fall conference planning committee (6/28)
- Minnesota Watersheds Summer Tour (6/26)
- CPR/First Aid training (6/17)
- CAC meeting (6/11)
- Employee Right to Know Training (6/4)

Report Supplement 1: WaterFest Survey Data

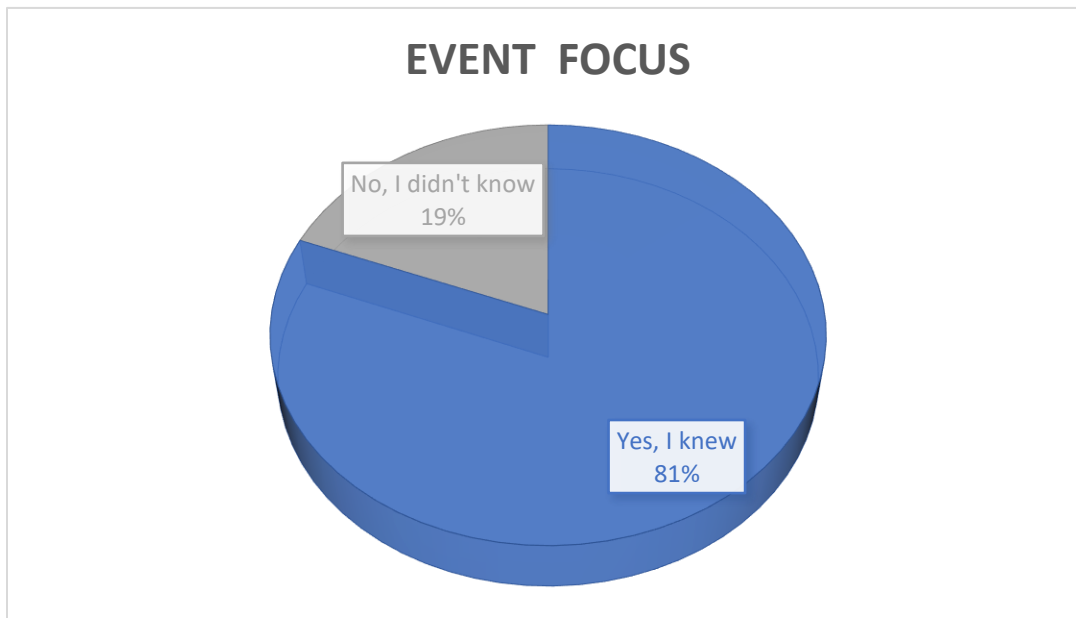
Question 1

Were you aware that Ramsey-Washington Metro Watershed District is the host of this event?



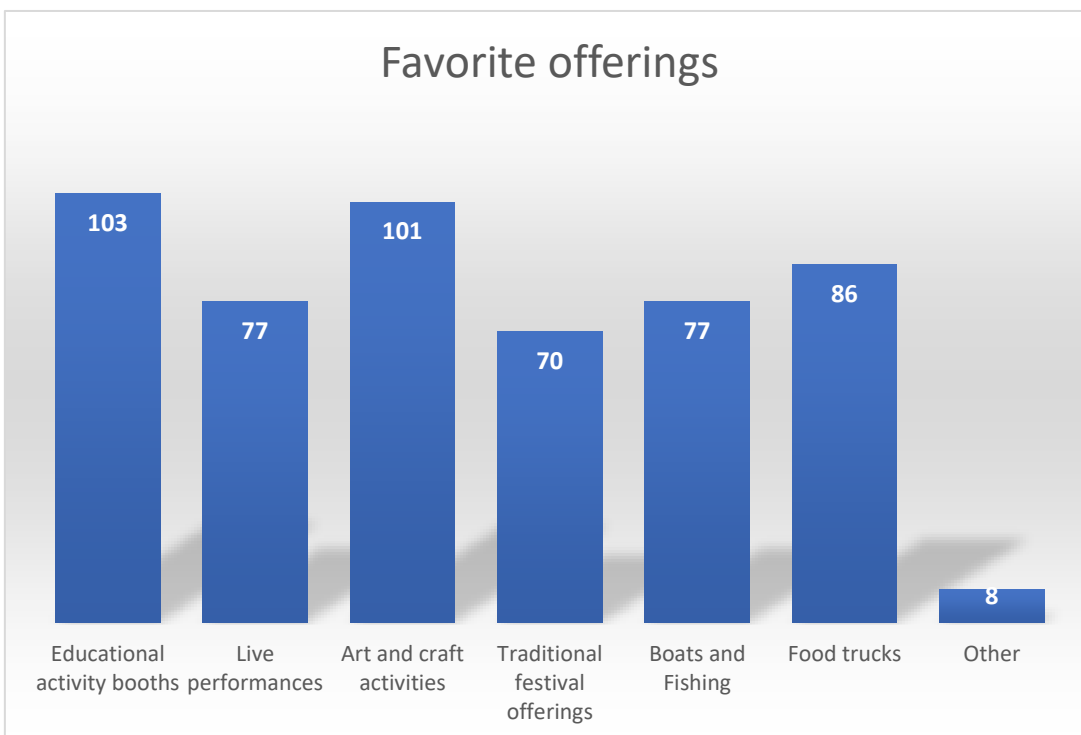
Question 2

Focus of event (include exact wording)



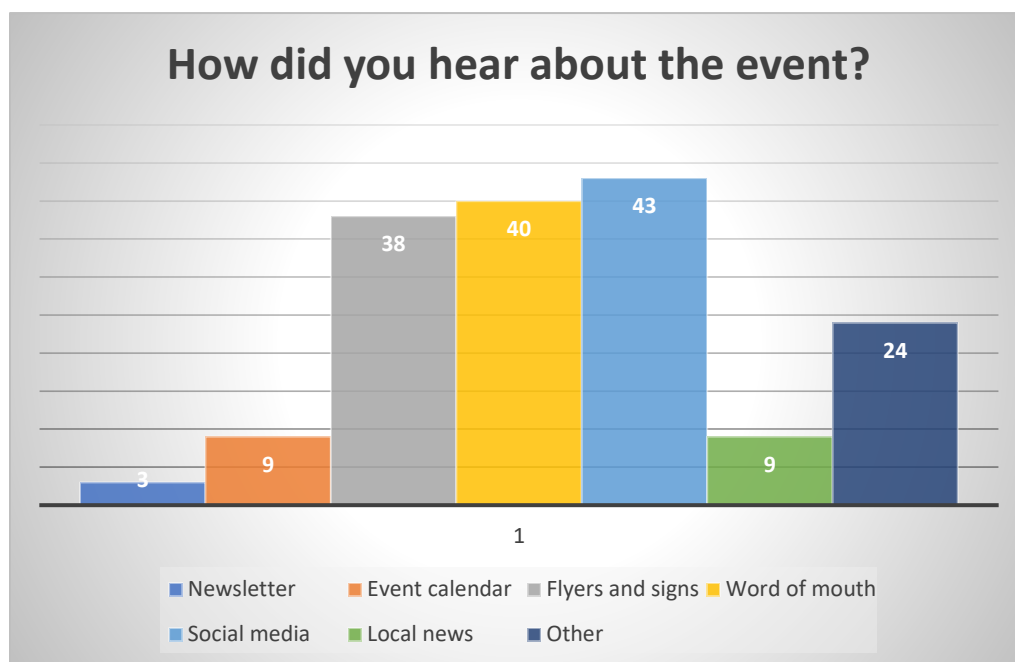
Question 3

What were your favorite parts of the event (select all that apply)



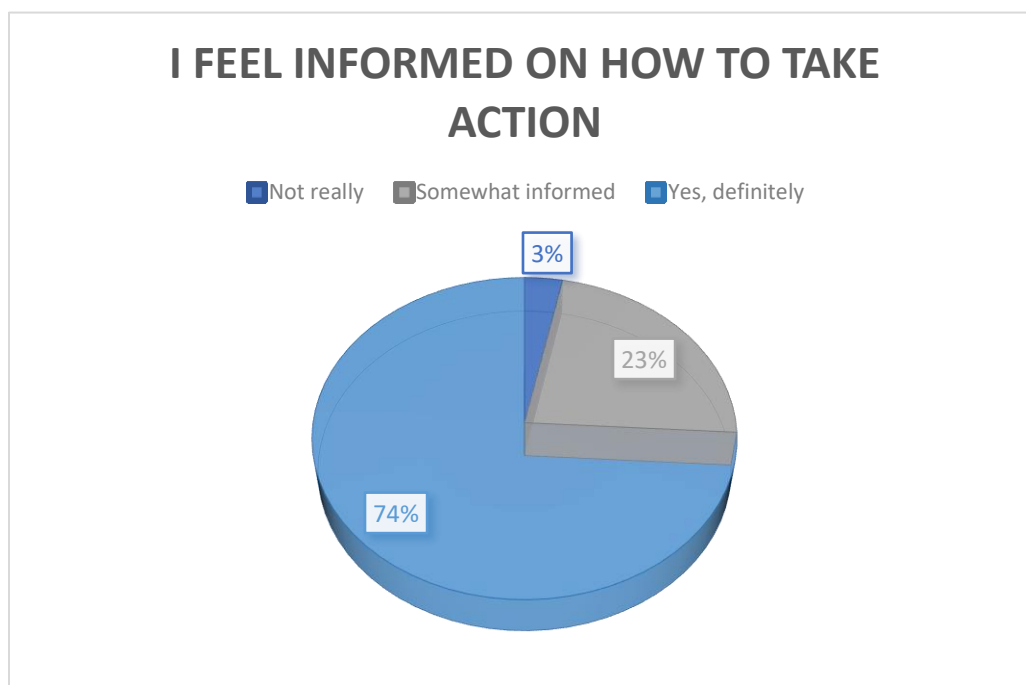
Question 4

How did you hear about the event?



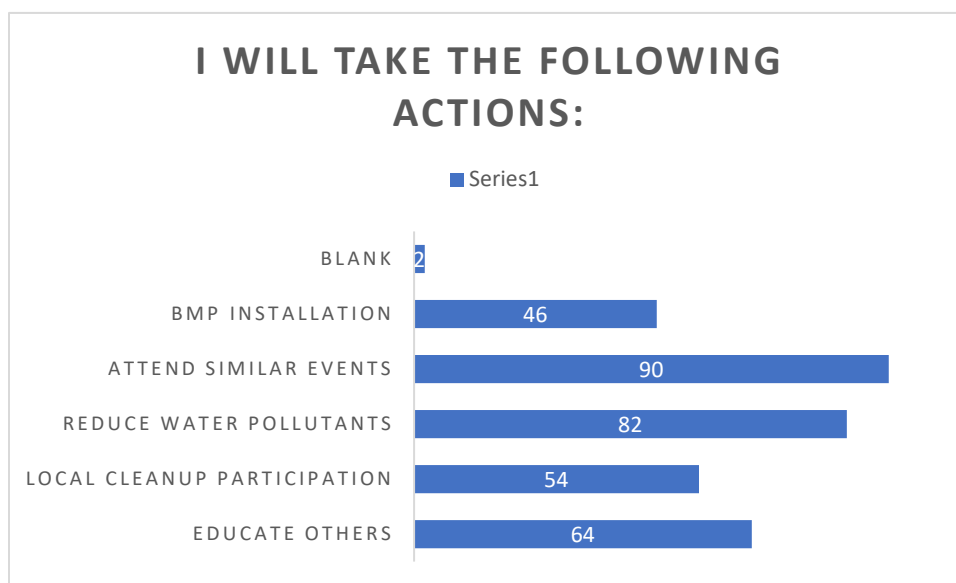
Question 5

Agree or disagree: I feel informed on how to take action to benefit lakes, streams, etc



Question 6

What actions are you likely to take after attending this event? (Note: most picked more than one option)



Report Supplement 2: WaterFest 2024 Survey

2024 WaterFest Feedback Survey

1. Were you aware that the Ramsey-Washington Metro Watershed District was the host of this event?

☐ Yes, I was aware

☐ No, I was not aware

2. Did you know that the event is focused on educating attendees about caring for lakes, ponds, and streams?

☐ Yes, I knew

☐ No, I didn't know

3. What aspects of the festival did you enjoy the most? Select all that apply

☐ Educational booths

☐ Live performances

☐ Art and craft activities

☐ Traditional festival features like the bounce houses, face painting, or giant bubble

☐ Food trucks

☐ Boat and fishing activities

☐ Other (please specify)

4. How did you learn about our event?

☐ Social media

☐ Electronic newsletter

☐ Word of mouth

☐ Event calendar or local news

☐ Flyers or signs

☐ Radio

☐ Other

5. After attending the event, do you feel more informed about how to take actions that benefit lakes, ponds, and streams?

☐ Yes, definitely

☐ Somewhat informed

☐ Not really

6. What actions are you likely to take after attending this event?

☐ Participate in local cleanup efforts

☐ Reduce the use of water pollutants

☐ Educate others about reducing water pollution

☐ Attend more events like this

☐ Get a rain garden, native plant garden, rain barrel, or permeable pavement on my property

What is your zipcode? _____

Y. Citizen Advisory Committee Update- Carrie Magnuson

The Citizen Advisory Committee met on June 11th, 2024 at 6:30 pm at the RWMWD office and Zoom

In attendance were 10 CAC members, 3 staff members, 1 BOM member (Ben Karp). The following initiatives were discussed and further developed

1. **WaterFest & Adopt-a-Drain (AAD) Expansion** –The CAC dedicated their table at WaterFest to a combination of AAD and Salt/Chloride education and best practices. A subcommittee worked on the display, and several CAC members volunteered to help host it at WaterFest on June 1st. The display utilized displays and games from MPCA and AAD (Hamline University).The stop was a passport site for the event, drawing a lot of visitors. CAC members felt like it went well and participants seemed really engaged. The group discussed areas of success as well as opportunities for growth.
2. **East Side stewardship & youth relationship building; Earth Day Cleanup:** The CAC hosted a litter cleanup on Thursday 4/25/24 at Ames Lake and at Sackett Park in St. Paul. Sackett Park is part of the East Side Boys and Girls Club property. 1 Board of Managers, 1 staff, and about 7 CAC members cleaned up at Ames Lake and East Side Boys & Girls Club. Koreena Moua, Program Director at the Boys & Girls Club recruited several youth to help in the cleanup. The son of the namesake for Sackett Park was also in attendance. 20+ bags of garbage were removed, along with furniture, shopping carts, and random large debris.
3. **Watershed Excellence Awards & Volunteer Recognition Dinner planning:** Lauren outlined ways the program would be changing slightly in 2024 including having a standardized nomination form, staff participation in narrowing nominees, and baseline criteria. CAC supported the changes. The Recognition Dinner date has been set for Thursday, November 21st. More details will come later in the year.
4. **Outreach & Engagement Volunteer Program –**
 - a. General volunteer opportunities: CAC will have an opportunity to volunteer at Hanlo's Pond with a buckthorn cutting event (October), and had a Keller Shore planting (May), both in conjunction with the RWMWD Natural Resources Team.

Future meetings:

- September 24th
- October 22th
- December 3rd

2024 Board Approved CAC Priorities/Projects:

- Outreach & engagement volunteer program (table at 1 event per quarter)
- Adopt-a-drain expansion
- Salt-use outreach/education
- East Side stewardship & youth relationship
- Rain garden and/or buckthorn cleanup project
- Team planting
- WaterFest logistics
- LEAP Program nominations & subcommittee
- Watershed Excellence Awards & Volunteer Recognition Dinner planning