RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

February 2025
Board Packet

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Agenda

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RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

Regular Board Meeting Agenda

Wednesday, February 5, 2025

6:30 PM

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

1. Call to Order – 6:30 PM
2. **Approval of Agenda *(pg. 3)***
3. Recognition of Outgoing Board Member – Matt Kramer *(pg. 7)*
4. **Consent Agenda: To all be approved with one motion unless removed from the consent agenda for discussion.**
    A. Approval of Regular Meeting Minutes January 8, 2025 *(pg. 9)*
    B. Treasurer's Report and Bill List *(pg. 15)*
    C. Stewardship Grant Program
        i. 25-02 CS Gable *(pg. 28)*
        ii. 25-03 CS Gilchrist *(pg. 30)*
        iii. 25-05 CS Terry *(pg. 32)*
    D. Beltline Mississippi River Branch Repairs – Change Order No. 2 *(pg. 34)*
    E. District Liability Insurance Coverage Waiver *(pg. 39)*
5. Visitor Comments (limited to 4 minutes each)
6. Permit Program
    A. Applications
        i. 25-03 Keller Golfview Parking Improvements, Maplewood *(pg. 42)*
    B. Permit Program Monthly Memorandum *(pg. 46)*
7. Stewardship Grant Program
    A. Applications – None
    B. Budget Status Update *(pg. 50)*
8. Action Items - NONE
9. Attorney Report
10. Board Discussion Topics
11. New Reports and/or Presentations
    A. 2024 Enhanced Street Sweeping Program Summary *(pg. 52)*
    B. Kohlman Lake Alum Treatment Project Update Memo *(pg. 59)*
    C. New Technology Topic Memo: Aeration *(pg. 62)*
    D. Phalen and Keller Lake Level Forecast Integration Scope Summary *(pg. 72)*
12. Administrator's Report *(pg. 76)*
    A. Meetings Attended
    B. Upcoming Meetings and Dates
    C. Staff Anniversaries
    D. Board Action Log

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E. District DEIA Planning Process
F. Minnesota Watersheds Legislative Event Discussion

13. Project and Program Status Reports *(pg. 87)*

Project Feasibility Studies

A. Manufactured Homes Resilience Evaluation
B. Street Sweeping
C. Flood Risk Reduction Feasibility Study: Roseville Central Park

Watershed Management Plan Update

D. Watershed Management Plan Update: Phase 1- Stakeholder Engagement

Research Projects

E. New-Technology Mini Case Studies
F. Wakefield Lake Aeration Feasibility Study

Project Operations

G. Lake-Level Station Maintenance and Rain Gauge Installation

Capital Improvements

H. Roosevelt Homes
I. Targeted Retrofit Projects 2025
J. Stewardship Grant Program
K. Fish Creek Tributary Improvements
L. Cottage Place Wetland Regeneration
M. County Road C Culvert Replacement
N. Kohlman Creek Storage and Detention
O. Kohlman Lake Alum Treatment
P. Lake Wabasso Outlet Replacement

CIP Project Repair and Maintenance

Q. Routine CIP Inspection and Unplanned Maintenance Identification
R. 2025 CIP Maintenance and Repairs
S. Beltline and Battle Creek Storm Sewer Five-Year Inspection and Beltline Detailed Survey
T. Beltline Mississippi Branch Outfall Replacement Project

Program Updates

U. Natural Resources Program
V. Communications and Engagement Program

14. Manager Comments and Next Month's Meeting
15. **Adjourn**

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

NOTICE OF BOARD MEETING
Wednesday, February 5th, 2025
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/84946563927

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 **849 465 63927**. The meeting password is **743772**. If you have any questions, please contact Tina Carstens at tina.carstens@rwmwd.org.

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Outgoing Board Memeber

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Certificate of Appreciation

Presented to

Matt Kramer

in recognition and grateful appreciation for
3 years of dedication, leadership, and service
to the Ramsey-Washington Metro Watershed District.

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

February 5, 2025

Val Eisele, President

Tina Carstens, Administrator

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Consent Agenda

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RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

Ramsey-Washington Metro Watershed District
Minutes of Regular Board Meeting
January 8, 2024

The Regular Meeting of January 8, 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/ab8JQEAWvQo. Video time stamps are 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:

Staff:
Tina Carstens, District Administrator
Paige Ahlborg, Assistant Administrator
Nicole Maras, Regulatory Program Manager
Eric Korte, Monitoring Program Manager
Paul Erdmann, Natural Resources Program Manager
Mary Fitzgerald, Regulatory Specialist
Kendra Kloth, Regulatory Technician

Consultants:
Tracey Galowitz, Attorney for District
Brandon Barnes, Barr Engineering

Visitors:
Robbie Latta, Civil Site Group
Glen Olson, CAC

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

2. APPROVAL OF AGENDA (0:14)

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

Motion carried unanimously.

3. CONSENT AGENDA (0:29)
A. Approval of Minutes from December 11, 2024
B. Treasurer's Report and Bill List
C. Permit Program
   i. 25-01 Aragon Apartments, St. Paul
   ii. 25-02 County Road D-Greenbrier Street to County Road D Circle

Manager Gernes asked for more information on the subsurface infiltration design for permit 25-01 Aragon Apartments, St. Paul.
Robbie Latta provided details of the planned design for the subsurface infiltration basin.

DRAFT

President Eisele asked for clarification on the wording 'The applicant is proposing to exceed the linear cost cap for stormwater treatment at the rate applicable to the time of the application, and overall rate requirements for the project are met.' in the application for permit 25-02 County Road D-Greenbrier Street to County Road D Circle.

Nicole Maras explained that the permit had originally been applied for and had a round of review in July of 2023. Nicole stated that comments were provided at that time, noting that the project was well into the design phase. Nicole stated that there had been a delay since the staff last heard from Ramsey County in regard to this project. Nicole explained that when revisions were brought back for review, old calculations had been used. Nicole explained that five months after the permit had been applied for the linear cost cap had been increased. Nicole stated that the phrasing acknowledges that the project had been budgeted for and was into the design phase prior to the linear cost cap increase and that this project would not be required to meet the increased linear cost cap.

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

Motion carried unanimously.

4. VISITOR COMMENTS (08:21)
No comments.

5. PERMIT PROGRAM (08:29)
A. Applications – None

B. Permit Program Monthly Memorandum
No comments.

C. 2024 Program Summary Presentation and Discussion
Nicole Maras provided an overview of the 2024 permit program summary. Nicole stated that the previous year's numbers were also included in the memorandum to provide context and identify trends. Nicole went on to review the summary, highlighting the sharp increase in permit applications and completed construction site inspections. Nicole provided more details of the permit program summary, noting an observable increase in the percentage of non-compliant inspections. Nicole stated that the non-compliance in inspections reflected a trend of poor maintenance, with more violations for lack of self-inspection. Nicole provided details of the rules for self-inspection. Nicole stated that there had also been an increase in staff completed inspections noting that it had been the most inspections completed in a field season. Nicole provided general updates on other aspects of the program, including the linear cost cap increase and stormwater impact fund as well as adding an additional permanent staff member.

Manager Gernes questioned if the increase in projects was the cause for the higher numbers or if there had been more efficiency in managing projects due to the additional staff.

Nicole Maras explained that the number of sites stayed relatively similar to previous years but the increase in staff helped in increasing the numbers of inspections completed per site. Nicole stated that there were external factors at play that contribute to such a large amount of activity over previous years.

President Eisele questioned if most violations start off as a verbal warning and questioned if the numbers in the summary showed verbal warnings that had been repaired.

Nicole Maras explained that normal maintenance items will be included on inspections reports as under review. Nicole stated that verbal warnings most often occur when issues are seen in passing, not during an inspection. Nicole stated that verbal warnings can also come from received complaints.

DRAFT

President Eisele stated that he appreciated the quality of inspections that were occurring.

i. Closed Permit BMP Discussion

Nicole Maras provided an introduction to the Regulatory Team Closed Permit BMP Maintenance Program presentation. Nicole stated that the presentation was brought about after questions regarding closed permit BMP inspections, maintenance agreements and similar topics had arisen at the October 2024 meeting. Nicole stated that the presentation will provide a road map of where the program is at now, what barriers are seen for closed permit BMP inspections as well as the future direction the program.

Mary Fitzgerald began the presentation by providing details of the current closed permit BMP program. Mary explained what a closed permit BMP is and provided a timeline for BMP inspections. Mary noted that some of the sites go back to the 1990s, with over 2,022 closed BMP sites to be inspected. Mary continued on to review the closed BMP inspections trends from 2020 to 2024.

Kendra Kloth continued the presentation discussing some of the barriers to completing the BMP inspections and having effective communication with entities that maintain the BMPs. Kendra explained that some of the barriers included prioritization of active construction over closed permit inspections. Kendra explained that this was due to active monitoring needed for active construction. Kendra went on to discuss other constraints which include staff time and communication breakdown with entities required to maintain facilities.

Mary Fitzgerald went on to discuss the constraints of closed BMP inspecting, noting that it would be difficult to inspect all the closed BMPs on an annual basis. Mary stated that one goal would be to consistently reach out with reminders to permit holders whose permit had closed in the last several years with consistent reminders of what needs to be done.

Nicole Maras went on to provide details of maintenance agreements, noting that they are required for all private developments. Nicole noted that the maintenance agreements allow staff to enter a property to inspect the infrastructure as well as complete required maintenance work that had not been done with the ability to bill the property owner for the work. Nicole continued on to discuss operation and maintenance plans, noting that they are required during the permit review process and are developed by the engineer designing the facilities. Nicole stated that the operation and maintenance plans are a site-specific document. Nicole provided more details on the role operation and maintenance plans play in inspections as well as informing property owners of maintenance requirements. Nicole provided more details of the maintenance agreements, noting that they are signed and notarized with the intent that it is recorded against the property. Nicole stated that there has been a discussion about requiring proof of the recording.

Manager Wang requested more information on the requirement to prove recording and asked what security that would give that isn't currently had.

Nicole Maras provided more details on what proof of recording would accomplish as well as some of the constraints of implementing proof of recording.

Manager Kramer stated that the amount of time it can take to process those types of recordings with cities or counties may also be a constraint.

Tracey Galowitz provided details on the property recordings, noting that it is important if an owner in the future would be obligated to complete the maintenance. Tracey provided more details on the importance of recording the agreement.

Tina Carstens stated that there was a high percentage of functioning BMPs, noting that there had not been any egregious noncompliance reported. Tina stated that if staff did need to go to a landowner with a maintenance requirement the agreement would make it possible for staff to access the site as well as perform maintenance if needed.

DRAFT

Manager Kramer stated that he felt that requiring proof of recording solves a problem that didn't need to be solved. Manager Kramer noted that all the legal remedies to do what is needed when it comes to property owners who use public funds whether there is proof of recording or not.

Tracy Galowitz stated that recording the agreement against the property makes it known to everyone who owns that property what is required. Tracey provided more details on the recording process and why it may be important to do so.

Nicole Maras stated that recording before a permit is issued would be challenging but it may be something that could be completed before escrow funds are returned. Nicole provided information on what other watershed districts require for recording.

President Eisele agreed that if it could be done in a way that does not slow down the permit process it would be worth figuring it out.

Mary Fitzgerald went on to discuss the BMP inspection program noting that RWMWD is a leader in closed permit BMP inspections. Mary provided details of BMP presentations that had been given at different workshops and conferences and noted discussions had with metro regulators.

Kendra Kloth continued the presentation by discussing future program goals. Kendra stated that the goals included a robust closed permit BMP system. Kendra reviewed the future goals for enforcement frequency, accountability of owners, annual inspection submittals and coordination with cities. Kendra provided details on how staff intend to achieve the goals outlined in the presentation.

Manager Gernes questioned if it would make sense to have below-ground BMP inspections occur more frequently than the suggested 5-7 years.

Nicole Maras stated that more frequent inspections were something that could be investigated. Nicole stated that the reasoning for the less frequent below-ground BMP inspections was partially due to having recently completed inspections for all below-ground BMPs showing a high percentage of functioning at the time of the inspections. Nicole stated that engineering assistants were also involved in the below-ground BMP inspections, noting there would be a different scheduling coordination and budget than there would be with the above-ground BMP inspections.

President Eisele stated he was appreciative of the discussion and information provided in the presentation.

6. STEWARDSHIP GRANT PROGRAM (1:19:43)

A. Applications – None.

B. Budget Status Update

Paige Ahlborg provided an overview of the stewardship grant budget.

7. ACTION ITEMS - NONE

8. ATTORNEY REPORT (1:20:26)

Tracey Galowitz provided details of the work the attorney's office completed over the last month. This included reviewing contract documents from Fitzgerald Excavating, memorandums of understanding that discussed working with cities on their pond clean outs as well as access agreements for the Fish Creek project. Tracey also provided an update on the Fish Creek easements.

9. BOARD DISCUSION TOPICS (1:21:28)

President Eisele provided an update on gathering and compiling Manager notes from the Minnesota Watershed Conference and discussed the upcoming Minnesota Watersheds Legislative event.

Tina Carstens provided details of the upcoming Minnesota Watershed Legislative event.

Manager Wang suggested having CAC members and MN Water Stewards attend the second day of the event.

10. NEW REPORTS AND/OR PRESENTATIONS (1:26:46)

A. RWMWD Stormwater Model Update Scope Summary

President Eisele questioned if there are other key areas that may need to be prioritized or if the three locations mentioned in the scope summary had been chosen for a particular reason.

Brandon Barnes provided details on the locations included in the scope summary and explained why those locations were chosen.

11. ADMINISTRATOR'S REPORT (1:32:16)

A. Meetings Attended

No comments

B. Upcoming Meetings and Dates

No comments.

C. Staff Anniversaries

No comments.

D. Board Action Log

No comments.

E. Minnesota Watersheds Updates

No comments.

12. PROJECT AND PROGRAM STATUS REPORTS (1:33:36)

Project Feasibility Studies

A. Street Sweeping
B. Watershed Approach to Retrofit Projects
C. Ames Lake Area Flood Risk Reduction Planning
D. Maplewood Mall 2024 Assessment

Watershed Management Plan Update

E. Stakeholder Engagement
F. Watershed Management Plan Update Scoping

Project Operations

G. Lake Phalen/Keller Creek and Twin Lake Operations Support and Communications
H. Lake-Level Station Maintenance and Rain Gauge Installation

President Eisele asked if it made sense to share how the data collected is used with residents. President Eisele stated that showing the importance of data collection and how that data is used in decision-making could help with people's understanding of the equipment they see.

Capital Improvements

I. Woodbury Target Store Stormwater Retrofits
J. Roosevelt Homes
K. Targeted Retrofit Projects 2024
L. Stewardship Grant Program
M. Pioneer Park Stormwater Reuse

DRAFT

N. Fish Creek Tributary Improvements
O. Cottage Place Wetland Restoration

Manager Wang questioned if there had been a lot of residence feedback due to the drastic changes after tree removal.

Paige Ahlborg stated that a lot of feedback had been received initially. Paige explained that overall, people had been supportive. After another mailing and an update to the website acknowledging the change while reminding people of the intent and purpose of the work being done, the number of calls had decreased.

P. County Road C Culvert Replacement
Q. Kohlman Creek Flood Risk Reduction Projects Final Design
R. Kohlman Lake Alum Treatment

CIP Project Repair and Maintenance

S. Routine CIP Inspection and Unplanned Maintenance Identification
T. 2025 CIP Maintenance and Repairs
U. Beltline and Battle Creek Storm Sewer Five-Year Inspections and Beltline Detailed Survey
V. Beltline Mississippi Branch Outfall Replacement Project

Program Updates

W. Natural Resources Program
X. Communications and Engagement Program
Y. Citizen Advisory Committee

13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (1:49:58)

President Eisele reiterated the importance of attending the Legislative event.

14. ADJOURN

Motion: Manager Wang moved, Manager Gernes seconded, to adjourn the meeting at 8:22 p.m. Motion carried unanimously.

DRAFT

RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2025
1/31/2025

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	-	-	-	4,000.00	0.00%
	Sub-Total: Managers/Committees:		**$14,000.00**	**$0.00**	**-**	**-**	**$14,000.00**	**0.00%**
Employees	Staff Salary/Taxes/Benefits	4010	2,100,000.00	-	182,241.79	182,241.79	1,917,758.21	8.68%
	Employee Expenses	4020	10,000.00	-	22.78	22.78	9,977.22	0.23%
	District Training & Education	4350	75,000.00	-	11,234.40	11,234.40	63,765.60	14.98%
	Sub-Total: Employees:		**$2,185,000.00**	**$0.00**	**193,498.97**	**193,498.97**	**$1,991,501.03**	**8.86%**
Administration/	Data Base/GIS Maintenance	4170	25,000.00	-	3.36	3.36	24,996.64	0.01%
Office	Telephone	4310	2,000.00	-	232.38	232.38	1,767.62	11.62%
	Office Supplies	4320	7,000.00	-	-	-	7,000.00	0.00%
	Postage/Delivery	4330	2,000.00	-	-	-	2,000.00	0.00%
	Printing/Copying	4335	5,000.00	-	434.85	434.85	4,565.15	8.70%
	Dues & Publications	4338	20,000.00	-	14,858.00	14,858.00	5,142.00	74.29%
	Janitorial/Trash Service	4341	30,000.00	-	357.02	357.02	29,642.98	1.19%
	Utilities	4342	20,000.00	-	1,012.00	1,012.00	18,988.00	5.06%
	Building Maintenance	4343	80,000.00	-	2,403.21	2,403.21	77,596.79	3.00%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	70,000.00	-	-	-	70,000.00	0.00%
	Office Equipment	4703	50,000.00	-	-	-	50,000.00	0.00%
	District Vehicles/Maintenance	4810-40	60,000.00	-	144.89	144.89	59,855.11	0.24%
	Metro INET	4325	110,000.00	-	8,658.40	8,658.40	101,341.60	7.87%
	Sub-Total: Administration/Office:		**$486,000.00**	**-**	**28,104.11**	**28,104.11**	**$457,895.89**	**5.78%**
Consultants/	Auditor/Accounting	4110	80,000.00	-	702.15	702.15	79,297.85	0.88%
Outside Services	Engineering-Administration	4121	122,000.00	-	5,346.00	5,346.00	116,654.00	4.38%
	Engineering-Permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-Review	4123	80,000.00	-	3,352.00	3,352.00	76,648.00	4.19%
	Engineering-Permit Application Review	4124	70,000.00	-	6,914.00	6,914.00	63,086.00	9.88%
	Project Feasibility Studies	4129	400,000.00	-	2,379.50	2,379.50	397,620.50	0.59%
	Attorney-Permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-General	4131	40,000.00	-	1,344.00	1,344.00	38,656.00	3.36%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		**$847,000.00**	**$0.00**	**20,037.65**	**20,037.65**	**$826,962.35**	**2.37%**
Programs	WMP/Lakes/TMDLs/Grants	4661	378,500.00	-	1,726.50	1,726.50	376,773.50	0.46%
	Natural Resources Program	4670	161,000.00	-	58.88	58.88	160,941.12	0.04%
	Water Monitoring Program	4520-30	513,000.00	-	2,225.17	2,225.17	510,774.83	0.43%
	Outside Program Support	4683	42,000.00	-	10,000.00	10,000.00	32,000.00	23.81%
	Research Projects	4695	125,000.00	-	4,383.00	4,383.00	120,617.00	3.51%
	Project Operations	4650	150,000.00	-	2,753.17	2,753.17	147,246.83	1.84%
	Communication/Outreach/Events	4371	166,000.00	-	1,540.63	1,540.63	164,459.37	0.93%
	Health and Safety Program	4697	7,000.00	-	-	-	7,000.00	0.00%
	Sub-Total: Programs:		**$1,542,500.00**	**$0.00**	**22,687.35**	**22,687.35**	**$1,519,812.65**	**1.47%**
GENERAL FUND TOTAL			**$5,074,500.00**	**$0.00**	**264,328.08**	**264,328.08**	**4,810,171.92**	5.21%
CIP's	Project Repair & Maintenance	516	2,180,000.00	-	50,365.62	50,365.62	2,129,634.38	2.31%
	Targeted Retrofit Projects	518	1,185,000.00	-	27,638.60	27,638.60	1,157,361.40	2.33%
	Flood Risk Reduction Fund	520	1,255,000.00	-	12,073.73	12,073.73	1,242,926.27	0.96%
	Debt Services-Beltline/Maplewood Mall	526	410,459.00		281,252.55	281,252.55	129,206.45	68.52%
	Stewardship Grant Fund	529	1,250,000.00	-	175.00	175.00	1,249,825.00	0.01%
	Fish Creek Tributary Improvements	537	1,400,000.00	-	82.50	82.50	1,399,917.50	0.01%
	Wetland Restoration Projects	540	350,000.00	-	-	-	350,000.00	0.00%
CIP BUDGET TOTAL			**$8,030,459.00**	**-**	**371,588.00**	**371,588.00**	**$7,658,871.00**	4.63%
TOTAL BUDGET			**$13,104,959.00**	**$0.00**	**635,916.08**	**635,916.08**	**$12,469,042.92**	**4.85%**

Current Fund Balances:

Fund:	Unaudited Beginning Fund Balance @ 12/31/24	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @12/31/25
101 - General Fund	$2,730,482.96	-	6,705.72	264,328.08	264,328.08	2,472,860.60
516 - Project Repair & Maintenance	576,674.31	-	5,661.22	50,365.62	50,365.62	531,969.91
518 - Targeted Retrofit Projects	233,168.97	-	614.10	27,638.60	27,638.60	206,144.47
520 - Flood Risk Reduction Fund	5,404,388.67	-	754.16	12,073.73	12,073.73	5,393,069.10
526 - Debt Services-Beltline/Maplewood Mall	280,033.02	-	263.92	281,252.55	281,252.55	(955.61)
529 - Stewardship Grant Fund	(16,813.76)	-	808.03	175.00	175.00	(16,180.73)
536 - Stormwater Impact Fund	504,106.16	-	-	-	-	504,106.16
537 - Fish Creek Tributary Improvements	489,424.67	-	511.75	82.50	82.50	489,853.92
540 - Wetland Restoration Projects	577,223.15	-	215.47	-	-	577,438.62
580 - Contingency Fund	1,215,487.00	-	-	-	-	1,215,487.00
Total District Fund Balance	**$11,994,175.15**	**$0.00**	**$ 15,534.37**	**$ 635,916.08**	**$635,916.08**	**$11,373,793.44**

RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2024
12/31/2024-UPDATED 1/30/2025

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	-	224.58	224.58	$7,000.00	3.21%
	Manager Expenses	4360	3,000.00	-	-	-	3,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	4,000.00	-	672.87	1,571.17	2,428.83	39.28%
	Sub-Total: Managers/Committees:		**$14,000.00**	**$0.00**	**897.45**	**1,795.75**	**$12,428.83**	**12.83%**
Employees	Staff Salary/Taxes/Benefits	4010	2,000,000.00	-	148,653.51	1,893,598.84	106,401.16	94.68%
	Employee Expenses	4020	10,000.00	-	389.23	5,930.53	4,069.47	59.31%
	District Training & Education	4350	75,000.00	-	4,571.65	78,281.86	(3,281.86)	104.38%
	Sub-Total: Employees:		**$2,085,000.00**	**$0.00**	**153,614.39**	**1,977,811.23**	**$107,188.77**	**94.86%**
Administration/ Office	Data Base/GIS Maintenance	4170	20,000.00	-	171.36	7,235.04	12,764.96	36.18%
	Office Equipment Maintenance	4305	2,000.00	-	-	-	2,000.00	0.00%
	Telephone	4310	2,000.00	-	59.38	2,382.49	(382.49)	119.12%
	Office Supplies	4320	7,000.00	-	393.04	5,203.83	1,796.17	74.34%
	Postage/Delivery	4330	2,000.00	-	111.78	1,360.43	639.57	68.02%
	Printing/Copying	4335	5,000.00	-	449.83	4,667.22	332.78	93.34%
	Dues & Publications	4338	17,000.00	-	-	14,181.00	2,819.00	83.42%
	Janitorial/Trash Service	4341	15,000.00	-	-	15,214.71	(214.71)	101.43%
	Utilities	4342	20,000.00	-	341.87	13,792.02	6,207.98	68.96%
	Building Maintenance	4343	100,000.00	-	27,937.35	68,239.93	31,760.07	68.24%
	Miscellaneous	4390	5,000.00	-	-	352.20	4,647.80	7.04%
	Insurance	4480	65,000.00	-	-	57,840.00	7,160.00	88.98%
	Office Equipment	4703	80,000.00	-	-	18,093.95	61,906.05	22.62%
	District Vehicles/Maintenance	4810-40	60,000.00	-	656.16	8,622.44	51,377.56	14.37%
	Metro INET	4325	100,000.00	-	93.32	100,310.29	(310.29)	100.31%
	Sub-Total: Administration/Office:		**$540,000.00**	**-**	**30,214.09**	**317,495.55**	**$182,504.45**	**58.80%**
Consultants/ Outside Services	Auditor/Accounting	4110	80,000.00	-	9,441.10	79,542.50	457.50	99.43%
	Engineering-Administration	4121	122,000.00	-	8,348.50	92,447.86	29,552.14	75.78%
	Engineering-Permit I&E	4122	10,000.00	-	27.00	8,576.56	1,423.44	85.77%
	Engineering-Review	4123	75,000.00	-	7,297.00	64,855.19	10,144.81	86.47%
	Engineering-Permit Application Review	4124	65,000.00	-	4,192.50	68,348.00	(3,348.00)	105.15%
	Project Feasibility Studies	4129	260,000.00	-	22,697.76	129,210.43	130,789.57	49.70%
	Attorney-Permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-General	4131	40,000.00	-	1,732.50	28,910.30	11,089.70	72.28%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		**$697,000.00**	**$0.00**	**53,736.36**	**471,890.84**	**$225,109.16**	**67.70%**
Programs	WMP/Lakes/TMDLs/Grants	4661	154,500.00	-	2,618.00	25,669.50	128,830.50	16.61%
	Natural Resources Program	4670	120,000.00	-	6,267.81	88,957.67	31,042.33	74.13%
	Water Monitoring Program	4520-30	285,000.00	-	12,129.73	410,470.47	(125,470.47)	144.02%
	Outside Program Support	4683	57,000.00	-	1,631.25	56,824.09	175.91	99.69%
	Research Projects	4695	150,000.00	-	160.00	103,618.00	46,382.00	69.08%
	Project Operations	4650	150,000.00	-	3,367.63	157,444.26	(7,444.26)	104.96%
	Communication/Outreach/Events	4371	166,000.00	-	5,375.04	152,512.96	13,487.04	91.88%
	Health and Safety Program	4697	4,000.00	-	159.95	6,976.93	(2,976.93)	174.42%
	Sub-Total: Programs:		**$1,086,500.00**	**$0.00**	**31,709.41**	**1,002,473.88**	**$84,026.12**	**92.27%**
GENERAL FUND TOTAL			**$4,382,500.00**	**$0.00**	**349,719.29**	**3,851,014.84**	**611,257.33**	**87.87%**
CIP's	Project Repair & Maintenance	516	2,125,000.00	-	340,523.28	1,705,913.22	419,086.78	80.28%
	Targeted Retrofit Projects	518	1,950,000.00	-	372,535.31	892,579.18	1,057,420.82	45.77%
	Flood Risk Reduction Fund	520	5,400,000.00	-	13,149.39	217,779.32	5,182,220.68	4.03%
	Debt Services-Beltline/Maplewood Mall	526	394,963.00		550.00	393,507.80	1,455.20	99.63%
	Stewardship Grant Fund	529	1,250,000.00	-	157,748.69	963,626.96	286,373.04	77.09%
	Fish Creek Tributary Improvements	537	1,375,000.00	-	36,407.50	94,169.85	1,280,830.15	6.85%
	Wetland Restoration Projects	540	700,000.00	-	6,051.65	114,874.35	585,125.65	16.41%
CIP BUDGET TOTAL			**$13,194,963.00**	**-**	**926,965.82**	**4,382,450.68**	**$8,812,512.32**	**33.21%**
TOTAL BUDGET			**$17,577,463.00**	**$0.00**	**1,276,685.11**	**8,233,465.52**	**$9,343,997.48**	**46.84%**

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 @12/31/24
101 - General Fund	$2,714,628.00	-	3,866,868.66	349,719.29	3,851,014.84	2,730,482.96
516 - Project Repair & Maintenance	1,124,951.37	-	1,157,636.16	340,523.28	1,705,913.22	576,674.31
518 - Targeted Retrofit Projects	560,649.86	-	565,098.29	372,535.31	892,579.18	233,168.97
520 - Flood Risk Reduction Fund	4,784,436.00	-	837,731.99	13,149.39	217,779.32	5,404,388.67
526 - Debt Services-Beltline/Maplewood Mall	435,851.00	-	237,689.82	550.00	393,507.80	280,033.02
529 - Stewardship Grant Fund	201,659.15	-	745,154.05	157,748.69	963,626.96	(16,813.76)
536 - Stormwater Impact Fund	1,381,018.00	-	84,053.00	-	960,964.84	504,106.16
537 - Fish Creek Tributary Improvements	121,092.62	-	462,501.90	36,407.50	94,169.85	489,424.67
540 - Wetland Restoration Projects	498,036.00	-	194,061.50	6,051.65	114,874.35	577,223.15
580 - Contingency Fund	1,215,487.00	-	-	-	-	1,215,487.00
Total District Fund Balance	**$13,037,809.00**	**$0.00**	**$8,150,795.37**	**$1,276,685.11**	**$9,194,430.36**	**$11,994,175.15**

Ramsey Washington Metro Watershed Dist.

Check Register

For the Period From January 1, 2025 to January 31, 2025

Date	Check #	Payee ID	Payee	Invoice #	Description		Amount
01/03/25	EFT	hea002	HealthPartners	Feb-25	Employee Benefits		$13,602.96
01/01/25	EFT	met008	MetLife-Group Benefits	Jan-25	Employee Benefits		1,753.91
01/15/25	EFT	usb002	U.S. Bank	January 2024 Statement	Various		7,611.25
01/27/25	EFT	hom001	Home Depot	Jan-25	Natural Resource Program		58.88
01/27/25	EFT	nsp001	Xcel Energy	Jan-25	Project Operations-Flood Damage Reduction		30.03
10/29/24	75001V	loe001	Jacob Loewen	2024 23-07 MTN	Stewardship Grant Program		(200.00)
01/02/25	75144V	bau001	Paul Bauer	21-01 MTN	Stewardship Grant Program		(390.71)
08/26/24	74839V	far003	Farnsworth Aerospace Lower Pre-K-4	May 15 - May 23, 2024	Communications/Outreach/Events		(309.82)
01/15/25	75219	aws001	AWS Service Center	S1335957-010125-2025	Janitorial/Trash/Plowing/Sweeping		357.02
01/15/25	75220	bau001	Lee Bauer	21-01 MTN	Stewardship Grant Program		390.71
01/15/25	75221	cit013	City of St. Paul	IN61328	Project Feasibility Studies		10,152.76
01/15/25	75222	dav003	Davey Resource Group, Inc.	9000089948	Construction Improvements/Project Maint & Rep		1,860.02
01/15/25	75223	ele002	Electro Watchman, Inc.	434916-2025	Building/Site Maintenance		885.05
01/15/25	75224	far003	Farnsworth Aerospace Lower Pre-K-4	May 15 to May 23, 2024	Communications/Outreach/Events		309.82
01/15/25	75225	fle001	Flemings Auto Service	116410	Vehicle Maintenance		57.38
01/15/25	75226	ger006	Mark Gernes	2024 Expenses	Manager Per Diems		224.58
01/15/25	75227	inn002	Innovative Office Solutions LLC	IN4741017	Building/Site Maintenance		277.76
01/15/25	75228	lea002	League of Minnesota Cities	419465	Dues/Publications		2,358.00
01/15/25	75229	loe001	Jacob Loewen	23-07 MTN	Stewardship Grant Program		200.00
01/15/25	75230	met012	Metro-INET	2363	Telephone		8,735.00
01/15/25	75231	ncp001	NCPERS Group Life Ins.	January 1,2025	Employee Benefits		16.00
01/15/25	75232	pre003	Premium Waters, Inc.	310535858	Utilities/Building Services Contracts		37.00
01/15/25	75233	ram016	Ramsey County	PRK-002466	Project Feasibility Studies		12,671.25
01/15/25	75234	red002	Redpath & Company, LLC.	150493036	Accounting		5,584.50
01/15/25	75235	red003	Red Wing Business Advantage Account	20250110043028	Employee Benefits		200.00
01/15/25	75236	usb005	US Bank Equipment Finance	545896672	Printing/Copier Lease		434.85
01/29/25	75237	ada002	Adam's Pest Control, Inc.	4043768	Building/Site Maintenance		100.40
01/29/25	75238	app003	Applewood Pointe Cooperative Shoreview	24-32 CS	Employee Expenses		1,350.00
01/29/25	75239	att002	AT & T Mobility - ROC	287256653401X01252025	Project Operations		163.34
01/29/25	75240	bar001	Barr Engineering	Dec 14 to Dec 31, 2024	Various		165,811.48
01/29/25	75241	bar013	Pye Barker	IV00317397	Building/Site Maintenance		512.00
01/29/25	75242	ben002	Benefit Extras, Inc.	1130311	Employee Benefits		945.00
01/29/25	75243	cad001	Zayo Group, LLC	21211052	Water Monitoring Program		203.37
01/29/25	75244	car003	Tina Carstens	Jan-Dec 2024	Employee Expenses; Employee Benefits		868.31
01/29/25	75245	cit011	City of Roseville	24-53 CS	Stewardship Grant Program		10,504.25
01/29/25	75246	fit002	Mary Fitzgerald	January 25, 2025	Employee Benefits		619.25
01/29/25	75247	fit003	Emily F. Kamin	Apr-00	Utilities/Building Services Contracts		525.00
01/29/25	75248	gal001	Galowitz Olson, PLLC	January 22, 2025	Attorney-Project Maintenance and Repair		4,141.50
01/29/25	75249	hbf001	HB Fuller	22-14 MTN	Stewardship Grant Program		1,000.00
01/29/25	75250	int001	Office of MN, IT Services	W24120534	Telephone		59.38
01/29/25	75251	jon004	Bob & Sandy Jones	21-19 MTN	Stewardship Grant Program		1,000.00
01/29/25	75252	klo002	Cooper Klotzbach	2024	Employee Expenses		46.03
01/29/25	75253	kor001	Eric Korte	Jan-25	Employee Benefits		205.59
01/29/25	75254	lea003	L. Tracy Leavenworth	17-1003; 17-1004	Communications/Outreach/Events		6,899.02
01/29/25	75255	mel001	Michelle L. Melser	Dec-24	Employee Expenses		103.58
01/29/25	75256	min007	Minger Construction Co., Inc.	Progress Payment #2-2024	Construction Improvements/Project Maint & Rep		248,781.25
01/29/25	75257	min010	MN Public Facilities Authority	Feb 20, 2025	Loan Repay/Debt Services-Beltline/Maplewood Mall		2,271.30
01/29/25	75258	nor011	Northland Securities, Inc.	INV-1241	Beltline & Battle Creek Tunnel Repair Debt Service		550.00
01/29/25	75259	pac001	Pace Analytical Services, Inc.	25100474022	Water Monitoring Program		2,866.80
01/29/25	75260	sai001	Saint Paul Media	02/01/2025	Communications/Outreach/Events		100.00
01/29/25	75261	str005	Strategic Diversity Initiatives	1980	Training & Education		9,500.00
01/29/25	75262	stu001	Studio Lola	2019993	Communications/Outreach/Events		1,235.63
01/29/25	75263	voy001	US Bank Voyager Fleet Sys.	8692934232504	Vehicle Fuel		192.06
01/29/25	75264	was002	Washington Conservation District	6814; 6855	Water Monitoring Program		4,792.83
	Total						**$532,255.57**
01/03/25	EFT	myp001	January 3rd Payroll	01/03/25	4110-101-000		84.25
01/17/25	EFT	myp001	January 17th Payroll	01/17/25	4110-101-000		79.85
01/31/25	EFT	myp001	January 31st Payroll	01/31/25	4110-101-000		84.25
01/03/25	Dir.Dep.	---	January 3rd Payroll	Payroll Expense-Net	4010-101-000		47,190.60
01/03/25	EFT	int002	January 3rd Federal Withholding	Internal Rev.Serv.	2001-101-000		25,072.46
01/03/25	EFT	mnd001	January 3rd State Withholding	MN Revenue	2003-101-000		4,587.05
01/03/25	EFT	per001	January 3rd PERA	PERA	2011-101-000		7,134.64
01/03/25	EFT	emp002	Employee Def. Comp. Contributions	Empower Retirement	2016-101-000		2,093.00
01/03/25	EFT	emp002	Employee IRA Contributions	Empower Retirement	2018-101-000		2,149.00
01/17/25	Dir.Dep.	---	January 17th Payroll	Payroll Expense-Net	4010-101-000		33,993.65
01/17/25	EFT	int002	January 17th Federal Withholding	Internal Rev.Serv.	2001-101-000		12,733.64
01/17/25	EFT	mnd001	January 17th State Withholding	MN Revenue	2003-101-000		2,151.11
01/17/25	EFT	per001	January 17th PERA	PERA	2011-101-000		7,620.38
01/17/25	EFT	emp002	Employee Def. Comp. Contributions	Empower Retirement	2016-101-000		2,093.00
01/17/25	EFT	emp002	Employee IRA Contributions	Empower Retirement	2018-101-000		2,149.00
01/31/25	Dir.Dep.	---	January 31st Payroll	Payroll Expense-Net	4010-101-000		47,195.60
01/31/25	EFT	int002	January 31st Federal Withholding	Internal Rev.Serv.	2001-101-000		25,078.40
01/31/25	EFT	mnd001	January 31st State Withholding	MN Revenue	2003-101-000		4,587.05
01/31/25	EFT	per001	January 31st PERA	PERA	2011-101-000		7,132.56
01/31/25	EFT	emp002	Employee Def. Comp. Contributions	Empower Retirement	2016-101-000		2,093.00
01/31/25	EFT	emp002	Employee IRA Contributions	Empower Retirement	2018-101-000		2,149.00
					Payroll/Benefits:		**$237,451.49**
	Total				**Accounts Payable/Payroll/Benefits:**		**$769,707.06**

Ramsey Washington Metro Watershed Dist.

Cash Disbursements Journal

For the Period From January 1, 2025 to January 31, 2025

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
12/12/24	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits	$13,602.96
12/01/24	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits	1,753.91
01/27/25	EFT	hom001	Home Depot	4670-101-000	Natural Resource Program	7,611.25
01/27/25	EFT	nsp001	Xcel Energy	4650-520-000	Project Operations-Flood Damage Reduction	58.88
01/15/25	EFT	usb002	U.S. Bank			30.03
				4371-101-000	Communications/Outreach/Events	56.77
				4320-101-000	Office Supplies	50.52
				4320-101-000	Office Supplies	9.97
				4320-101-000	Office Supplies	104.35
				4320-101-000	Office Supplies	6.46
				4320-101-000	Office Supplies	8.94
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses	96.40
				4670-101-000	Natural Resources Program	30.67
				4670-101-000	Natural Resources Program	1,500.00
				4670-101-000	Natural Resources Program	577.48
				4170-101-000	Data Base/GIS Maintenance	168.00
				4371-101-000	Communications/Outreach/Events	325.00
				4320-101-000	Office Supplies	124.63
				4320-101-000	Office Supplies	22.48
				4320-101-000	Office Supplies	29.10
				4350-101-000	Training & Education	155.11
				4320-101-000	Office Supplies	31.46
				4040-101-000	Employee Benefits	373.85
				4320-101-000	Office Supplies	27.99
				4320-101-000	Office Supplies	55.43
				4040-101-000	Employee Benefits	73.01
				4320-101-000	Office Supplies	3.29
				4040-101-000	Employee Benefits	28.93
				4350-101-000	Training & Education	250.00
				4040-101-000	Employee Benefits	291.85
				4371-101-000	Communications/Outreach/Events	45.00
				4371-101-000	Communications/Outreach/Events	60.00
				4350-101-000	Training & Education	500.00
				4350-101-000	Training & Education	65.00
				4650-101-000	Project Operations	84.42
				4350-101-000	Training & Education	140.00
				4350-101-000	Training & Education	360.00
				4530-101-000	Water Monitoring Program	128.30
				4343-101-000	Building and Site Maintenance	43.93
				4530-101-000	Water Monitoring Program	779.40
				4371-101-000	Communications/Outreach/Events	69.99
				4371-101-000	Communications/Outreach/Events	207.79
				4371-101-000	Communications/Outreach/Events	89.72
				4371-101-000	Communications/Outreach/Events	180.00
				4371-101-000	Communications/Outreach/Events	10.83

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From January 1, 2025 to January 31, 2025

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
				4371-101-000	Communications/Outreach/Events		27.40
				4371-101-000	Communications/Outreach/Events		5.47
				4670-101-000	Natural Resources Program		383.96
				4170-101-000	Data Base/GIS Maintenance		3.36
				4040-101-000	Employee Benefits		24.99
10/29/24	75001V	loe001	Jacob Loewen	4682-529-000	Stewardship Grant Program	(200.00)	
01/02/25	75144V	bau001	Paul Bauer	4682-529-000	Stewardship Grant Program	(390.71)	
08/26/24	74839V	far003	Farnsworth Aerospace Lower Pre-K-4	4371-101-000	Communications/Outreach/Events	(309.82)	
01/15/25	75219	aws001	AWS Service Center	4341-101-000	Janitorial/Trash/Plowing/Sweeping	357.02	
01/15/25	75220	bau001	Lee Bauer	4682-529-000	Stewardship Grant Program	390.71	
01/15/25	75221	cit013	City of St. Paul	4129-101-000	Project Feasibility Studies	10,152.76	
01/15/25	75222	dav003	Davey Resource Group, Inc.	4630-516-000	Construction Improvements/Project Maint & Rep	1,860.02	
01/15/25	75223	ele002	Electro Watchman, Inc.	4343-101-000	Building/Site Maintenance	885.05	
01/15/25	75224	far003	Farnsworth Aerospace Lower Pre-K-4	4371-101-000	Communications/Outreach/Events	309.82	
01/15/25	75225	fle001	Flemings Auto Service	4820-101-000	Vehicle Maintenance	57.38	
01/15/25	75226	ger006	Mark Gernes	4355-101-000	Manager Per Diems	224.58	
01/15/25	75227	inn002	Innovative Office Solutions LLC	4343-101-000	Building/Site Maintenance	277.76	
01/15/25	75228	lea002	League of Minnesota Cities	4338-101-000	Dues/Publications	2,358.00	
01/15/25	75229	loe001	Jacob Loewen	4682-529-000	Stewardship Grant Program	200.00	
01/15/25	75230	met012	Metro-INET			8,735.00	
				4310-101-000	Telephone		173.00
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses		8,562.00
01/15/25	75231	ncp001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits	16.00	
01/15/25	75232	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Services Contracts	37.00	
01/15/25	75233	ram016	Ramsey County			12,671.25	
				4129-101-000	Project Feasibility Studies		11,040.00
				4683-101-000	Outside Program Support		1,631.25
01/15/25	75234	red002	Redpath & Company, LLC.	4110-101-000	Accounting	5,584.50	
01/15/25	75235	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits	200.00	
01/15/25	75236	usb005	US Bank Equipment Finance	4335-101-000	Printing/Copier Lease	434.85	
01/29/25	75237	ada002	Adam's Pest Control, Inc.	4343-101-000	Building/Site Maintenance	100.40	
01/29/25	75238	app003	Applewood Pointe Cooperative Shoreview	4020-101-000	Employee Expenses	1,350.00	
01/29/25	75239	att002	AT & T Mobility - ROC			163.34	
				4650-101-000	Project Operations		81.67
				4650-101-000	Project Operations		81.67
01/29/25	75240	bar001	Barr Engineering			50,557.81	
				4121-101-000	Engineering Admin		789.50
				4123-101-000	Engineering Review		3,051.50
				4129-101-000	Project Feasability		331.50
				4520-101-000	WQM-Engineering		306.00
				4520-101-000	WQM-Engineering		1,609.50
				4124-101-000	Eng. Permit Review		1,582.50
				4661-101-000	SLMP/TMDL Studies		1,153.50
				4695-101-000	Research Projects		3,216.00
				4650-101-000	Project Operations		166.00

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
				4650-101-000	Project Operations		78.00
				4650-101-000	Project Operations		1,398.50
				4128-518-000	Engineering -Targeted Retrofit		3,340.00
				4128-518-000	Engineering -Targeted Retrofit		6,206.50
				4128-518-000	Engineering -Targeted Retrofit		662.00
				4682-529-000	Stewardship Grant Program		80.00
				4129-537-000	Driveway Fish Creek Tributary		454.50
				4128-540-000	Eng. Projects-Wetlands		2,568.15
				4128-520-000	Engineering -Flood Damage		118.50
				4128-520-000	Engineering -Flood Damage		2,448.50
				4128-518-000	Engineering -Targeted Retrofit		667.50
				4128-520-000	Engineering -Flood Damage		1,446.50
				4128-516-000	Eng. Projects-Maint & Repair		4,268.00
				4128-516-000	Eng. Projects-Maint & Repair		6,742.16
				4128-516-000	Eng. Projects-Maint & Repair		4,773.00
				4128-516-000	Eng. Projects-Maint & Repair		3,100.00
01/29/25	75240	bar001	Barr Engineering			115,253.67	
				4121-101-000	Engineering Admin		5,346.00
				4123-101-000	Engineering Review		3,352.00
				4129-101-000	Project Feasability		99.00
				4129-101-000	Project Feasability		2,082.50
				4129-101-000	Project Feasability		198.00
				4520-101-000	WQM-Engineering		198.00
				4520-101-000	WQM-Engineering		390.00
				4124-101-000	Eng. Permit Review		6,914.00
				4661-101-000	SLMP/TMDL Studies		1,726.50
				4695-101-000	Research Projects		4,383.00
				4650-101-000	Project Operations		2,581.50
				4650-101-000	Project Operations		90.00
				4128-518-000	Engineering -Targeted Retrofit		9,157.50
				4128-518-000	Engineering -Targeted Retrofit		13,098.50
				4682-529-000	Stewardship Grant Program		175.00
				4128-518-000	Engineering -Targeted Retrofit		90.00
				4129-537-000	Driveway Fish Creek Tributary		82.50
				4128-518-000	Engineering -Targeted Retrofit		1,196.10
				4128-520-000	Engineering -Flood Damage		462.00
				4128-520-000	Engineering -Flood Damage		7,829.70
				4128-520-000	Engineering -Flood Damage		3,752.00
				4128-518-000	Engineering -Targeted Retrofit		4,096.50
				4128-516-000	Eng. Projects-Maint & Repair		735.00
				4128-516-000	Eng. Projects-Maint & Repair		3,468.00
				4128-516-000	Eng. Projects-Maint & Repair		8,639.60
				4128-516-000	Eng. Projects-Maint & Repair		35,110.77
01/29/25	75241	bar013	Pye Barker	4343-101-000	Building/Site Maintenance	512.00	
01/29/25	75242	ben002	Benefit Extras, Inc.	4040-101-000	Employee Benefits	945.00	

Ramsey Washington Metro Watershed Dist.

Cash Disbursements Journal

For the Period From January 1, 2025 to January 31, 2025

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
01/29/25	75243	cad001	Zayo Group, LLC	4530-101-000	Water Monitoring Program	203.37	
01/29/25	75244	car003	Tina Carstens			868.31	
				4040-101-000	Employee Benefits		679.37
				4020-101-000	Employee Expenses		188.94
01/29/25	75245	cit011	City of Roseville	4682-529-000	Stewardship Grant Program	10,504.25	
01/29/25	75246	fit002	Mary Fitzgerald			619.25	
				4342-101-000	Utilities/Building Services Contracts		525.00
				4040-101-000	Employee Benefits		19.25
				4342-101-000	Utilities/Building Services Contracts		75.00
01/29/25	75247	fit003	Emily F. Kamin			525.00	
				4342-101-000	Utilities/Building Services Contracts		75.00
				4342-101-000	Utilities/Building Services Contracts		450.00
01/29/25	75248	gal001	Galowitz Olson, PLLC			4,141.50	
				4131-516-000	Attorney-Project Maintenance and Repair		742.50
				4131-537-000	Attorney-Fish Creek Tributary Improvements		2,055.00
				4131-101-000	Attorney-General		1,344.00
01/29/25	75249	hbf001	HB Fuller	4682-529-000	Stewardship Grant Program	1,000.00	
01/29/25	75250	int001	Office of MN, IT Services	4310-101-000	Telephone	59.38	
01/29/25	75251	jon004	Bob & Sandy Jones	4682-529-000	Stewardship Grant Program	1,000.00	
01/29/25	75252	klo002	Cooper Klotzbach	4020-101-000	Employee Expenses	46.03	
01/29/25	75253	kor001	Eric Korte	4040-101-000	Employee Benefits	205.59	
01/29/25	75254	lea003	L. Tracy Leavenworth	4371-101-000	Communications/Outreach/Events	6,899.02	
01/29/25	75255	mel001	Michelle L. Melser			103.58	
				4020-101-000	Employee Expenses		56.28
				4320-101-000	Office Supplies		24.52
				4020-101-000	Employee Expense		22.78
01/29/25	75256	min007	Minger Construction Co., Inc.	4630-516-000	Construction Improvements/Project Maintenance & Repair	248,781.25	
01/29/25	75257	min010	MN Public Facilities Authority	4700-526-000	Loan Repayment/Debt Services-Beltline/Maplewood Mall	2,271.30	
01/29/25	75258	nor011	Northland Securities, Inc.	4708-526-000	Beltline & Battle Creek Tunnel Repair Debt Service	550.00	
01/29/25	75259	pac001	Pace Analytical Services, Inc.			2,866.80	
				4530-101-000	Water Monitoring Program		1,433.80
				4530-101-000	Water Monitoring Program		1,433.00
01/29/25	75260	sai001	Saint Paul Media	4371-101-000	Communications/Outreach/Events	100.00	
01/29/25	75261	str005	Strategic Diversity Initiatives	4350-101-000	Training & Education	9,500.00	
01/29/25	75262	stu001	Studio Lola	4371-101-000	Communications/Outreach/Events	1,235.63	
01/29/25	75263	voy001	US Bank Voyager Fleet Sys.			192.06	
				4830-101-000	Vehicle Fuel		
				4830-101-000	Vehicle Fuel		
01/29/25	75264	was002	Washington Conservation District			4,792.83	
				4530-101-000	Water Monitoring Program		142.50
				4670-101-000	Natural Resources Program		1,281.00
				4683-101-000	Outside Program Support		3,369.33
	Total					**$532,255.57**	

Ramsey Washington Metro Watershed Dist.

Cash Disbursements Journal

For the Period From January 1, 2025 to January 31, 2025

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
01/03/25	EFT	myp001	January 3rd Payroll	4110-101-000	January 3rd Payroll	84.25
01/17/25	EFT	myp001	January 17th Payroll	4110-101-000	January 17th Payroll	79.85
01/31/25	EFT	myp001	January 31st Payroll	4110-101-000	January 31st Payroll	84.25
01/03/25	Dir.Dep.	---	January 3rd Payroll	4010-101-000	January 3rd Payroll	47,190.60
01/03/25	EFT	int002	January 3rd Federal Withholding	2001-101-000	January 3rd Federal Withholding	25,072.46
01/03/25	EFT	mnd001	January 3rd State Withholding	2003-101-000	January 3rd State Withholding	4,587.05
01/03/25	EFT	per001	January 3rd PERA	2011-101-000	January 3rd PERA	7,134.64
01/03/25	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	2,093.00
01/03/25	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	2,149.00
01/17/25	Dir.Dep.	---	January 17th Payroll	4010-101-000	January 17th Payroll	33,993.65
01/17/25	EFT	int002	January 17th Federal Withholding	2001-101-000	January 17th Federal Withholding	12,733.64
01/17/25	EFT	mnd001	January 17th State Withholding	2003-101-000	January 17th State Withholding	2,151.11
01/17/25	EFT	per001	January 17th PERA	2011-101-000	January 17th PERA	7,620.38
01/17/25	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	2,093.00
01/17/25	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	2,149.00
01/31/25	Dir.Dep.	---	January 31st Payroll	4010-101-000	January 31st Payroll	47,195.60
01/31/25	EFT	int002	January 31st Federal Withholding	2001-101-000	January 31st Federal Withholding	25,078.40
01/31/25	EFT	mnd001	January 31st State Withholding	2003-101-000	January 31st State Withholding	4,587.05
01/31/25	EFT	per001	January 31st PERA	2011-101-000	January 31st PERA	7,132.56
01/31/25	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	2,093.00
01/31/25	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	2,149.00
					Payroll/Benefits:	**$237,451.49**
	Total				**Accounts Payable/Payroll/Benefits:**	**$769,707.06**

BARR

Summary of Professional Engineering Services During the Period
December 14 through December 31, 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	$93,237.36	-$1,237.36	$789.50	4121-101	DW-13
RWMWD Health and Safety/ERTK Program (Training)	$2,000.00	$936.00	$1,064.00	$0.00	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	$4,280.50	$25,719.50	$0.00	4129-101	DW-13
Engineering Review						
Engineering Review	$75,000.00	$67,906.69	$7,093.31	$3,051.50	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	$65,233.66	-$20,233.66	$0.00	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	$14,093.15	-$4,093.15	$0.00	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	$13,592.00	$6,408.00	$331.50	4129-101	DW-6, DW-15
Retrofit Inventory	$60,000.00	$23,214.22	$36,785.78	$0.00	4129-101	DW-17, DW-20
Tanners, Battle Creek Lake, McKnight Basin outlet operation plan	$35,000.00	$4,167.00	$30,833.00	$0.00	4129-101	DW-9
Ames Lake Feasibility Study	$5,000.00	$1,387.00	$3,613.00	$0.00	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	$43,846.30	-$23,846.30	$0.00	4129-101	DW-5, DW-12
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	$576.00	$9,424.00	$0.00	4520-101	DW-2
Annual WQ Report Assistance	$20,000.00	$19,922.50	$77.50	$0.00	4520-101	DW-2
Special Project BMP Monitoring	$30,000.00	$17,945.11	$12,054.89	$306.00	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	$15,000.00	$12,045.84	$2,954.16	$1,609.50	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
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	$10,000.00	$8,576.56	$1,423.44	$0.00	4122-101	DW-7
Permit Application Review	$65,000.00	$69,930.50	-$4,930.50	$1,582.50	4124-101	DW-7
Watershed Management Plan Update						
Stakeholder Engagement	$20,000.00	$3,159.00	$16,841.00	$1,153.50	4661-101	DW-21
Gaps Analysis/WMP Update Scoping	$10,000.00	$7,836.50	$2,163.50	$0.00	4661-101	DW-13, DW-20
Lake Studies/TMDL Reports						
2024 Grant Applications	$20,000.00	$15,827.50	$4,172.50	$0.00	4661-101	DW-13
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	$15,783.50	-$783.50	$3,216.00	4695-101	DW-12
Kohlman Lake Aquatic Plant Management Effects Study	$20,000.00	$35,370.00	-$15,370.00	$0.00	4695-101	DW-12
Shallow Lake Aeration Study Finalization	$5,000.00	$3,480.50	$1,519.50	$0.00	4695-101	DW-12
Project Operations						
2024 Tanners Alum Facility Monitoring	$17,000.00	$18,421.30	-$1,421.30	$166.00	4650-101	TaL-3
Phalen/Keller and Twin Operations Support & Communications	$5,000.00	$5,438.50	-$438.50	$78.00	4650-101	DW-5, DW-13, DW-18
Lake Level Station Operation and Maintenance	$50,000.00	$60,868.24	-$10,868.24	$1,398.50	4650-101	DW-5, DW-18
Capital Improvements						
Woodbury Target	$193,200.00	$302,159.25	-$108,959.25	$0.00	4128-518	DW-6
Roosevelt Homes	$33,600.00	$63,126.70	-$29,526.70	$3,340.00	4128-518	DW-6, DW-9
Targeted Retrofit Projects 2024	$150,000.00	$79,036.41	$70,963.59	$6,206.50	4128-518	DW-6
Stewardship Grant Program	$75,000.00	$29,253.52	$45,746.48	$80.00	4682-529	DW-6
Owasso Basin Flood Risk Reduction	$200,000.00	$14,483.77	$185,516.23	$0.00	4128-520	GC-3
Pioneer Park Stormwater Reuse	$50,000.00	$37,140.33	$12,859.67	$662.00	4128-518	DW-6
Double Driveway and Fish Creek Tributary Improvements	$150,000.00	$134,624.80	$15,375.20	$454.50	4129-537	FC-2
Cottage Place Wetland	$113,800.00	$114,874.35	-$1,074.35	$2,568.15	4128-540	DW-6, DW-8, DW-14, LE-2, LE-3
County Road C culvert capacity	$50,000.00	$81,951.40	-$31,951.40	$118.50	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	$38,534.94	$111,465.06	$2,448.50	4128-520	DW-9, KC-2
Kohlman Lake Alum Treatment	$71,300.00	$7,820.90	$63,479.10	$667.50	4128-518	
Wabasso Outlet Replacement	$60,000.00	$3,524.84	$60,000.00	$1,446.50	4128-520	DW-5
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	$125,000.00	$154,746.36	-$29,746.36	$4,268.00	4128-516	DW-5
2024 CIP Maintenance and Repairs	$106,500.00	$76,320.87	$30,179.13	$0.00	4128-516	DW-5
2025 CIP Maintenance and Repairs	$270,360.00	$41,981.40	$228,378.60	$6,742.16	4128-516	DW-5
2025 Beltline and Battle Creek Inspections and Survey	$235,000.00	$12,525.50	$222,474.50	$4,773.00	4128-516	BELT-2
Beltline long-term fix near river outfall	$250,000.00	$207,871.42	$42,128.58	$3,100.00	4128-516	BELT-2

Barr declares under the penalties of Law that this Account, Claim, or Demand is just and that no part has been paid. **$50,557.81**

Bradley J. Lindaman, Vice President

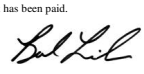
BARR

Summary of Professional Engineering Services During the Period
January 1 through January 17, 2025

	Total Engineering Budget (2025)	Total Fees to Date (2025)	Budget Balance (2025)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	$96,600.00	$5,346.00	$91,254.00	$5,346.00	**4121-101**	DW-13
RWMWD Health and Safety/ERTK Program (Training)	$2,000.00	$0.00	$2,000.00		**4697-101**	DW-13
Education Assistance	$20,000.00	$0.00	$20,000.00		**4129-101**	DW-11, DW-13
Targeted Retrofit Outreach, Assessment and Planning	$25,000.00	$0.00	$25,000.00			DW-6, DW-13, DW-20
Engineering Review						
Engineering Review	$78,750.00	$3,352.00	$75,398.00	$3,352.00	**4123-101**	DW-13
Project Feasibility Studies						
Manufactured Homes Resilience Evaluation	$20,000.00	$99.00	$19,901.00	$99.00	**4129-101**	GC-3
Phalen Village Improvements	$5,000.00	$0.00	$5,000.00		**4129-101**	DW-9
Evaluate compliance with South Metro Mississippi River TSS TMDL	$25,000.00	$0.00	$25,000.00		**4129-101**	MR-2
Street Sweeping	$20,000.00	$2,082.50	$17,917.50	$2,082.50	**4129-101**	DW-6, DW-15
Tanners, Battle Creek Lake, McKnight Basin outlet operation plan	$35,000.00	$0.00	$35,000.00		**4129-101**	DW-9
Interim Emergency Response Plans (Non-Beltline Areas)	$30,000.00	$0.00	$30,000.00		**4129-101**	DW-19
Flood Risk Reduction feasibility study - 4th street North and 4th Street Place N (N of ABI)	$75,000.00	$0.00	$75,000.00		**4129-101**	DW-9
Flood Risk Reduction feasibility study - Roseville Central Park	$50,000.00	$198.00	$49,802.00	$198.00	**4129-101**	DW-9
Stormwater Model Updates	$50,000.00	$0.00	$50,000.00		**4129-101**	DW-9
Studies Stemming From Creek Walks	$30,000.00	$0.00	$30,000.00		**4129-101**	DW-1
Shoreline Assessment Assistance	$20,000.00	$0.00	$20,000.00		**4129-101**	DW-8
Wetland Restoration Planning	$20,000.00	$0.00	$20,000.00		**4129-101**	DW-8
Contingency*	$20,000.00	$0.00	$20,000.00		**4129-101**	
GIS Maintenance						
GIS Maintenance	$5,000.00	$0.00	$5,000.00		**4170-101**	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	$10,000.00	$0.00	$10,000.00		**4520-101**	DW-2
Annual WQ Report Assistance	$20,000.00	$0.00	$20,000.00		**4520-101**	DW-2
Special Project BMP Monitoring	$30,000.00	$0.00	$30,000.00		**4520-101**	DW-12
Grass Lake Berm Wetland Monitoring	$5,000.00	$198.00	$4,802.00	$198.00	**4520-101**	DW-5, DW-8
Battle Creek and Fish Creek Monitoring	$20,000.00	$390.00	$19,610.00	$390.00	**4520-101**	DW-1, DW-2
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	$10,000.00	$0.00	$10,000.00		**4122-101**	DW-7
Permit Application Review	$70,000.00	$6,914.00	$63,086.00	$6,914.00	**4124-101**	DW-7
Watershed Management Plan Update						
Ecosystem Restoration Plan (or "Ecosystem Health Action Plan") Placeholder	$50,000.00	$0.00	$50,000.00		**4661-101**	DW-8, DW-14
WMP Update Phase 1- Stakeholder Engagement	$47,000.00	$4,885.50	$42,114.50	$1,726.50	**4661-101**	DW-13
WMP Update Phase 2- Complex Pre-Work	$30,000.00	$0.00	$30,000.00		**4661-101**	DW-13
WMP Update Phase 3- Draft Plan Development	$37,000.00	$0.00	$37,000.00		**4661-101**	DW-13
Lake Studies/TMDL Reports						
2025 Grant Applications	$20,000.00	$0.00	$20,000.00		**4661-101**	DW-13
Contingency for Lake Studies	$22,500.00	$0.00	$22,500.00		**4661-101**	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	$15,750.00	$4,383.00	$11,367.00	$4,383.00	**4695-101**	DW-12
Wakefield Lake Aeration Feasibility Study	$50,000.00	$0.00	$50,000.00		**4695-101**	
Project Operations						
2025 Tanners Alum Facility Monitoring	$17,850.00	$0.00	$17,850.00		**4650-101**	TaL-3
Phalen/Keller and Twin Operations Support & Communications	$5,000.00	$0.00	$5,000.00		**4650-101**	DW-5, DW-13, DW-18
Lake Level Station Operation and Maintenance	$50,000.00	$2,581.50	$47,418.50	$2,581.50	**4650-101**	DW-5, DW-18
Lake Level Station Forecast Integration	$55,000.00	$90.00	$54,910.00	$90.00	**4650-101**	DW-5, DW-18
Capital Improvements						
Roosevelt Homes Phase III	$15,000.00	$9,157.50	$5,842.50	$9,157.50	**4128-518**	DW-6, DW-9
Targeted Retrofit Projects 2025	$150,000.00	$13,098.50	$136,901.50	$13,098.50	**4128-518**	DW-6
Stewardship Grant Program	$75,000.00	$175.00	$74,825.00	$175.00	**4682-529**	DW-6
Pioneer Park Stormwater Reuse*	$10,000.00	$90.00	$9,910.00	$90.00	**4128-518**	DW-6
Double Driveway and Fish Creek Tributary Improvements	$235,000.00	$134,707.30	$100,292.70	$82.50	**4129-537**	FC-2
Cottage Place Wetland*	$30,000.00	$1,196.10	$28,803.90	$1,196.10	**4128-518**	DW-8, DW-14, LE-3
Ames Lake improvements	$250,000.00	$0.00	$250,000.00		**4128-520**	DW-9, BELT-1
County Road C Culvert Capacity*	$10,000.00	$462.00	$9,538.00	$462.00	**4128-520**	DW-9, KC-2
Kohlman Creek Improvements*	$90,000.00	$7,829.70	$82,170.30	$7,829.70	**4128-520**	DW-9, KC-2
Wabasso Outlet Replacement	$60,000.00	$7,276.84	$52,723.16	$3,752.00	**4128-520**	DW-5
Kohlman Lake Alum Treatment*	$71,300.00	$4,096.50	$67,203.50	$4,096.50	**4128-518**	KL-2
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	$125,000.00	$735.00	$124,265.00	$735.00	**4128-516**	DW-5
2025 CIP Maintenance and Repairs	$270,360.00	$45,449.40	$224,910.60	$3,468.00	**4128-516**	DW-5
Beltline long-term fix near river outfall	$260,000.00	$216,511.02	$43,488.98	$8,639.60	**4128-516**	BELT-2
Beltline 5-year inspection	$165,000.00	$47,636.27	$117,363.73	$35,110.77	**4128-516**	BELT-2
Survey of Beltline and Battle Creek Tunnels (alignment and vertical profiles)	$70,000.00	$0.00	$70,000.00		**4128-516**	BELT-2

***Fro these CIP projects, only the 2025 portion of the total budget is shown.**

Barr declares under the penalties of Law that this Account, Claim, or Demand is just and that no part has been paid. **$115,253.67**



Bradley J. Lindaman, Vice President

Beltline Mississippi River Branch Outfall Replacement Progress Payment 2

1.0	Total Completed Through This Period:	$296,250.00		
2.0	Total Completed Previously Completed:		$34,375.00	
3.0	Total Completed This Period:			$261,875.00
4.0	Amount Previously Retained:		$0.00	
5.0	Amount Retained This Period:			$13,093.75
6.0	Total Amount Retained:		$13,093.75	
7.0	Retainage Released Through This Period:			$0.00
8.0	Total Retainage Remaining:		$13,093.75	
9.0	Amounts Previously Paid:	$0.00		
10.0	Amount Due This Estimate:			$248,781.25

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

SUBMITTED BY:

Name: Josh Phleger Date: 12/31/2024

Title: Project Manager

Contractor: Minger Construction Companies, Inc.

Signature: Joshua M. Phleger Digitally signed by Joshua M. Phleger DN: C=US, E=joshp@mingerconst.com, O="Minger Construction Inc.", CN=Joshua M. Phleger Date: 2024.12.31 08:13:34-06'00'

RECOMMENDED BY:

Name: Joe Welna Date: 12/30/2024

Title: Project Manager

Engineer: Barr Engineering Co.

Signature:

APPROVED BY:

Name: Val Eisele Date:

Title: President

Owner: Ramsey-Washington Metro Watershed District

Signature:

Beltline Mississippi River Branch Outfall Replacement
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through December 31, 2024 for Progress Payment Number 2

						(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
1A	Mobilization - Permits, Bonds, Exploratory	LS	1	$7,725.00	$7,725.00	1.00	$7,725.00	1	$7,725.00	0.00	$0.00
1B	Mobilization - River Cofferdam	LS	1	$19,275.00	$19,275.00	1.00	$19,275.00	0	$0.00	1.00	$19,275.00
1C	Mobilization - Pipe and MH Shoring	LS	1	$20,000.00	$20,000.00	1.00	$20,000.00	0	$0.00	1.00	$20,000.00
1D	Mobilization - Clean Up	LS	1	$4,500.00	$4,500.00	0.00	$0.00	0	$0.00	0.00	$0.00
2	Construction Layout and Staking	LS	1	$5,000.00	$5,000.00	0.20	$1,000.00	0	$0.00	0.20	$1,000.00
3	Traffic Control	LS	1	$1,500.00	$1,500.00	0.50	$750.00	0	$0.00	0.50	$750.00
4	Sediment Control Log	LF	250	$5.00	$1,250.00	0.00	$0.00	0	$0.00	0.00	$0.00
5	Flotation Silt Curtain	LF	40	$20.00	$800.00	0.00	$0.00	0	$0.00	0.00	$0.00
6	Temporary Construction Entrance	EA	1	$2,500.00	$2,500.00	0.00	$0.00	0	$0.00	0.00	$0.00
7A	Dewatering and Control of Water - Deep Wells	LS	1	$150,000.00	$150,000.00	0.05	$7,500.00	0	$7,500.00	0.00	$0.00
7B	Dewatering and Control of Water - Storm Bulkhead & Bypass	LS	1	$63,000.00	$63,000.00	0.50	$31,500.00	0	$3,150.00	0.45	$28,350.00
7C	Dewatering and Control of Water - Cofferdam Dewatering	LS	1	$15,000.00	$15,000.00	0.00	$0.00	0	$0.00	0.00	$0.00
8A	Temporary Excavation Support - River Cofferdam	LS	1	$200,000.00	$200,000.00	0.65	$130,000.00	0	$10,000.00	0.60	$120,000.00
8B	Temporary Excavation Support - RCP Shoring	LS	1	$150,000.00	$150,000.00	0.25	$37,500.00	0	$0.00	0.25	$37,500.00
8C	Temporary Excavation Support - MH Shoring	LS	1	$100,000.00	$100,000.00	0.35	$35,000.00	0	$0.00	0.35	$35,000.00
9	Common Excavation (P)	CY	600	$25.00	$15,000.00	0.00	$0.00	0	$0.00	0.00	$0.00
10	Removal and Disposal of 9' Dia. Steel Pipe and Transition Section	LF	52	$75.00	$3,900.00	0.00	$0.00	0	$0.00	0.00	$0.00
11	Saw Cut Existing 9' Dia. RCP	LS	1	$5,500.00	$5,500.00	0.00	$0.00	0	$0.00	0.00	$0.00
12	Removal and Disposal of Storm Vault	LS	1	$9,000.00	$9,000.00	0.00	$0.00	0	$0.00	0.00	$0.00
13	Modify Existing Sheet Pile Wall	LS	1	$9,000.00	$9,000.00	0.00	$0.00	0	$0.00	0.00	$0.00
14	Crushed Stone Bedding	TON	60	$85.00	$5,100.00	0.00	$0.00	0	$0.00	0.00	$0.00
15	Construct Manhole Structure	LS	1	$120,000.00	$120,000.00	0.00	$0.00	0	$0.00	0.00	$0.00
16	9' Dia. Class III RCP	LF	51	$1,900.00	$96,900.00	0.00	$0.00	0	$0.00	0.00	$0.00
17	Connect Existing 9' Dia. RCP to Manhole Structure	LS	1	$10,000.00	$10,000.00	0.00	$0.00	0	$0.00	0.00	$0.00
18	Connect 9' Dia. RCP to Manhole Structure	LS	1	$10,000.00	$10,000.00	0.00	$0.00	0	$0.00	0.00	$0.00
19	RCP Collar and Sheet Pile Wall Interface	LS	1	$17,500.00	$17,500.00	0.00	$0.00	0	$0.00	0.00	$0.00
20	Lean Concrete Backfill	CY	110	$475.00	$52,250.00	0.00	$0.00	0	$0.00	0.00	$0.00
21	Timber Bumper	LF	20	$225.00	$4,500.00	0.00	$0.00	0	$0.00	0.00	$0.00
22	Common Backfill (P)	CY	230	$20.00	$4,600.00	0.00	$0.00	0	$0.00	0.00	$0.00
23	Class 5 Aggregate	TON	70	$70.00	$4,900.00	0.00	$0.00	0	$0.00	0.00	$0.00
24	Common Excavation, Stockpile and Dispose of Regulated Material (P)	TON	528	$60.00	$31,680.00	0.00	$0.00	0	$0.00	0.00	$0.00
				Contract Base Extensions =	$1,140,380.00		$290,250.00		$28,375.00		$261,875.00
Change Order 1											
C.O.1.A	Additional Site Investigation	LS	1	$6,000.00	$6,000.00	1	$6,000.00	1	$6,000.00	0.00	$0.00
	Access Hatch Replacement	LS	1	$6,900.00	$6,900.00	0	$0.00	0	$0.00	0.00	$0.00
				Change Order Extensions =	$12,900.00		$6,000.00		$6,000.00		$0.00
				Contract Grand Total =	**$1,153,280.00**		**$296,250.00**		**$34,375.00**		**$261,875.00**

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

January 22, 2025
File No: 9M

	Balance
General Account	$1,344.00
FISH CREEK PROJECT	$350.00
CIP	$742.50
Fish Creek Tributary Project	$1,705.00
	$4,141.50

Payment can be made over the phone, by check, or online at www.galowitzolson.com/make-a-payment.

Stewardship Grant Application Summary

Project Name: Gable **Application Number:** 25-02 CS

Board Meeting Date: 2/5/2024

Applicant Name: Sara Gable

Residential ☑ **Commercial/Government** ☐

Project Overview:

This project is located off East Shore Drive and Larpenteur Ave E in the City of Saint Paul. The applicant is proposing to install three rain gardens.

The rain gardens are eligible for 75% coverage up to a total of $15,000.

BMP type(s):

Rain Garden(3)

Grant Request:

$8,850.00

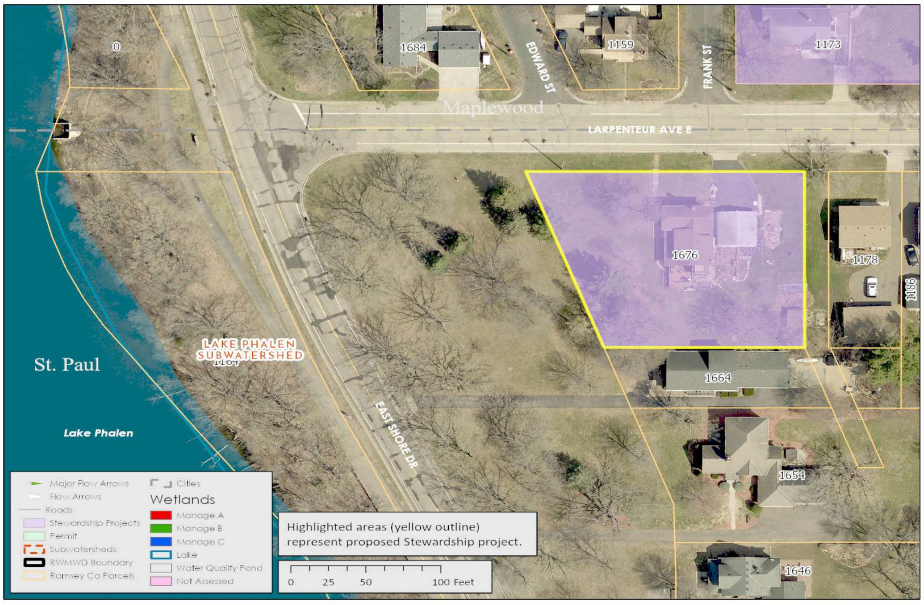
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Lake Phalen

Location Maps:



25-02 CS-A

83'-6"

LARPENTEUR AVE E.

19'

13'

12'

24'

10'

47'

58'-6"

36'

PROPOSED CONTOUR CHANGE

DRIVEWAY

888

INSTALL 4"-8" ROCK AT DRAINTILE OUTLET [7 SF]

22 LF 4" SOILD DRAINTILE [TOTAL]

INSTALL DOWNSPOUT-CATCH BASIN-PIPE INLET [NDS PRO 9X9 OR SIMILAR]

1676 EAST SHORE DRIVE

GARAGE

101'

46'

EXISTING DOWNSPOUT [TYP]

EXISTING FIRE PIT

39'

890

12'

13'

9'

DECK

10'

12'

10'

17'

52'

28 LF 4" SOILD DRAINTILE [TOTAL]

45 DEGREE 4" SOILD DRAINTILE ANGLE

39'

892

PROPERTY LINE

EXISTING SEATING AREA

PROPOSED NATIVE PLANTING AREA D [1,850 SF] INSTALL NATIVE PLANTS PER PLANTING PLAN [L200], SEED WITH TALLGRASS SAVANNA (OR SIMILAR) SEED MIX.

EXISTING TREE [TYP]

PROPOSED NATIVE PLANTING AREA A [1,831 SF]. INSTALL NATIVE PLANTS PER PLANTING PLAN [L200]. SEED WITH 2000 SF OF "SHORTGRASS ECHINACEA PRAIRIE SEED MIX" OR SIMILAR

PROPOSED RAINGARDEN A [142 SF] INSTALL 3"-THICK TWICE SHREDDED HARDWOOD MULCH. INSTALL NATIVE PLANTS PER PLANTING PLAN [L300].

FLAT RAINGARDEN BASIN; UNIFORM ELEVATION: 887.5' [6-INCH PONDING DEPTH BEFORE OVERFLOW; 6-INCH DEEP AMENDED SOILS]

4H:1V SIDE SLOPE [MATCH SURROUNDING GRADE]

PROPOSED NATIVE PLANTING AREA C [1,110 SF]. INSTALL NATIVE PLANTS PER PLANTING PLAN [L200]. SEED WITH 1000 SF OF "SHORTGRASS ECHINACEA PRAIRIE SEED MIX" OR SIMILAR

PROPOSED NATIVE PLANTING AREA B [636 SF]. INSTALL NATIVE PLANTS PER PLANTING PLAN [L200]. SEED WITH 500 SF OF "SHORTGRASS ECHINACEA PRAIRIE SEED MIX" OR SIMILAR.

PROPOSED RAINGARDEN B2 [192 SF] INSTALL 3"-THICK TWICE SHREDDED HARDWOOD MULCH. INSTALL NATIVE PLANTS PER PLANTING PLAN [L300].

FLAT RAINGARDEN BASIN; UNIFORM ELEVATION: 887.5' [6-INCH PONDING DEPTH BEFORE OVERFLOW; 6-INCH DEEP AMENDED SOILS]

4H:1V SIDE SLOPE [MATCH SURROUNDING GRADE]

ROCK SWALE CONNECTING RAINGARDENS 4"-8" ROCK [34 SF]

4H:1V SIDE SLOPE [MATCH SURROUNDING GRADE]

FLAT RAINGARDEN BASIN; UNIFORM ELEVATION: 888.50' [6-INCH PONDING DEPTH BEFORE OVERFLOW; 6-INCH DEEP AMENDED SOILS]

INSTALL 4"-8" ROCK AT DRAINTILE OUTLET [7 SF]

PROPOSED RAINGARDEN B1 [90 SF] INSTALL 3"-THICK TWICE SHREDDED HARDWOOD MULCH. INSTALL NATIVE PLANTS PER PLANTING PLAN [L300].

25-02 CS-B

25-02 CS-C

RAMSEY COUNTY

RAMSEY COUNTY SWCD
2015 VAN DYKE STREET
MAPLEWOOD, MN 55109
651-266-7280
www.ramseycounty.us

PROJECT:
GABLE RESIDENCE

LOCATION:
1676 EAST SHORE DRIVE
SAINT PAUL, MN 55106

WATERSHED DISTRICT:
RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

DESIGNER: NICK NEYLON
DATE: 8/12/2024
PAST REVISION:
PAST REVISION:
PAST REVISION:
PAST REVISION:
CHECKED BY: BTO
TAA:

NOTES:
-ELEVATIONS ARE APPROXIMATE
-CONTRACTOR AQUIRE NECESSARY PERMITS PRIOR TO START
-EXCAVATE WITH TRACKED EQUIPMENT ONLY
-SIZE AND SHAPE OF PROJECT MAY VARY, VERIFY CHANGES WITH RCSWCD STAFF PRIOR TO INSTALL
-ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1"=20'-0"

N

SITE PLAN

L100

Stewardship Grant Application Summary

Project Name: Gilchrist **Application Number:** 25-03 CS

Board Meeting Date: 2/5/2025

Applicant Name: Chris Gilchrist

Residential ☑ **Commercial/Government** ☐

Project Overview:

This project is located off Leann Drive in the City of Woodbury. The applicant is proposing to install a rain garden and native habitat restoration.

The rain garden and native habitat restoration are eligible for 75% and 50% coverage, respectively, up to a total of $15,000.

BMP type(s):

Native Habitat Restoration(1), Rain Garden(1)

Grant Request:

$11,500.00

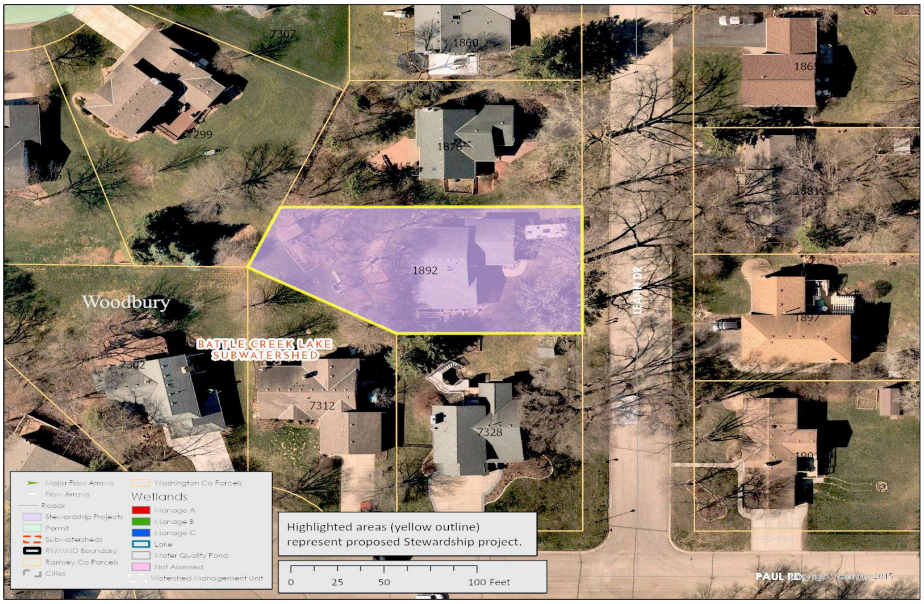
Recommendation:

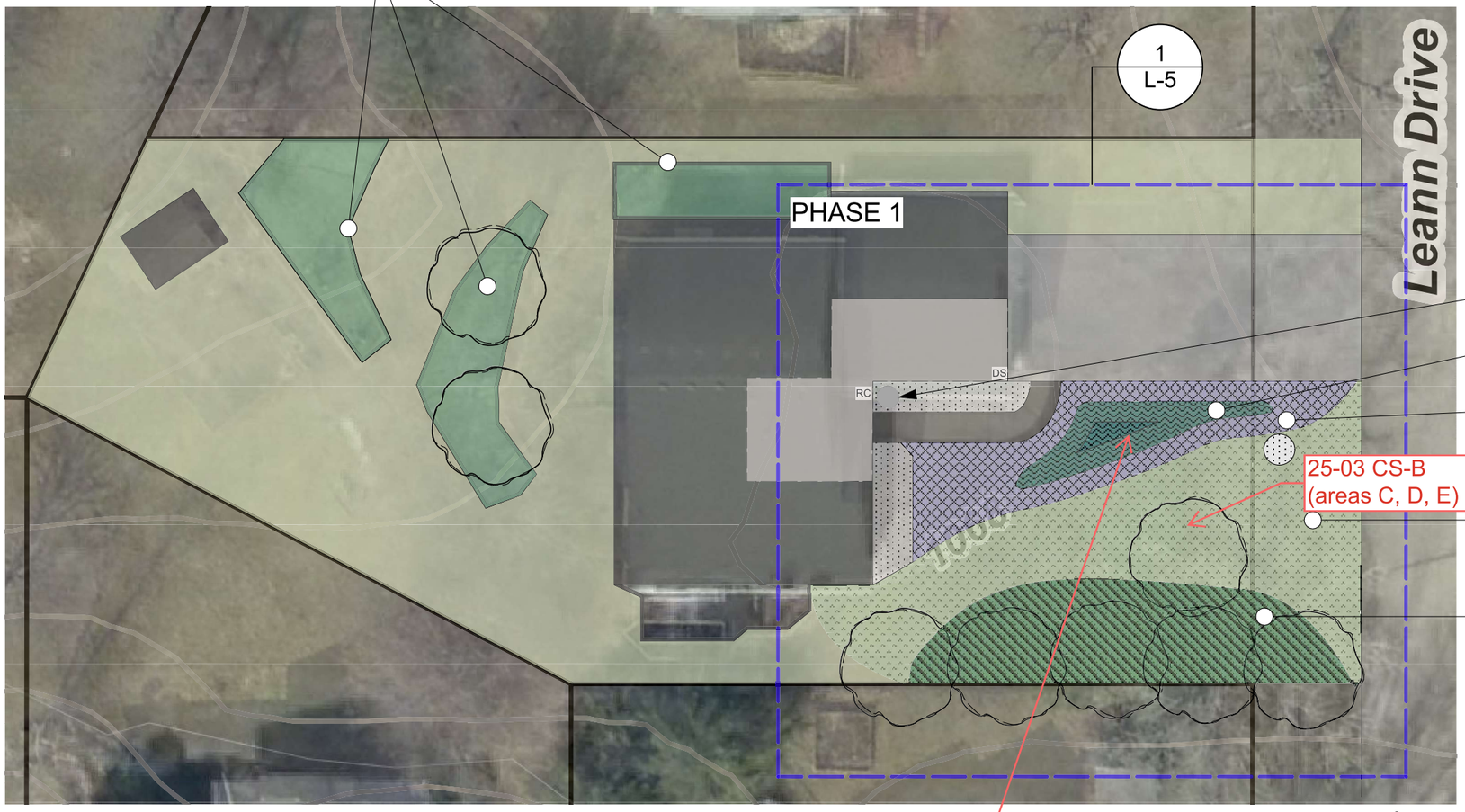
Staff recommends approval of this application.

Subwatershed:

Battle Creek Lake

Location Maps:





1 Concept Plan
Scale: 1" = 20'-0"

NOTES:
1. THIS DRAWING IS CONCEPTUAL IN NATURE AND FOR PLANNING PURPOSES. FIT GARDEN AREAS TO EXISTING CONDITIONS.
2. BASE INFORMATION INCLUDING EXISTING CONTOURS, LOCATION OF PROPERTY LINES, BUILDINGS, DRIVEWAYS AND WALLS HAVE BEEN REFERENCED FORM OTHERS.
3. PRIOR TO CONSTRUCTION, LOCATE ALL UNDERGROUND UTILITIES.

plan created by:
Washington Conservation District
455 Hayward Ave N
Oakdale, MN 55128
(651) 330-8220
www.mnwcd.org

created for:
RWMWD
Ramsey-Washington Metro Watershed District

Project Address
Gilchrist Residence
1892 Leann Drive, Woodbury, MN 55125

Project Manager
Lori Tella

Drawn LT
Reviewed
Revision

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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Lori Tella 7.30.24
Reg. No. 58219

Project Title
Native Planting Project

Sheet Title
CONCEPT PLAN

CAD File Name Gilchrist_Plan 7.30.24.vwx

Date
7/05/2024

L-2
of
1

Stewardship Grant Application Summary

Project Name: Terry **Application Number:** 25-05 CS

Board Meeting Date: 2/5/2025

Applicant Name: Robert Terry

Residential ☑ **Commercial/Government** ☐

Project Overview:

This project is located off Woodbridge Street in the City of Shoreview. The applicant is proposing to install a shoreline restoration. The shoreline restoration is adjacent to previous shoreline restorations completed as targeted retrofit projects.

The shoreline restoration is eligible for 100% coverage up to a total of $15,000.

BMP type(s):

Shoreline Restoration(1)

Grant Request:

$15,000.00

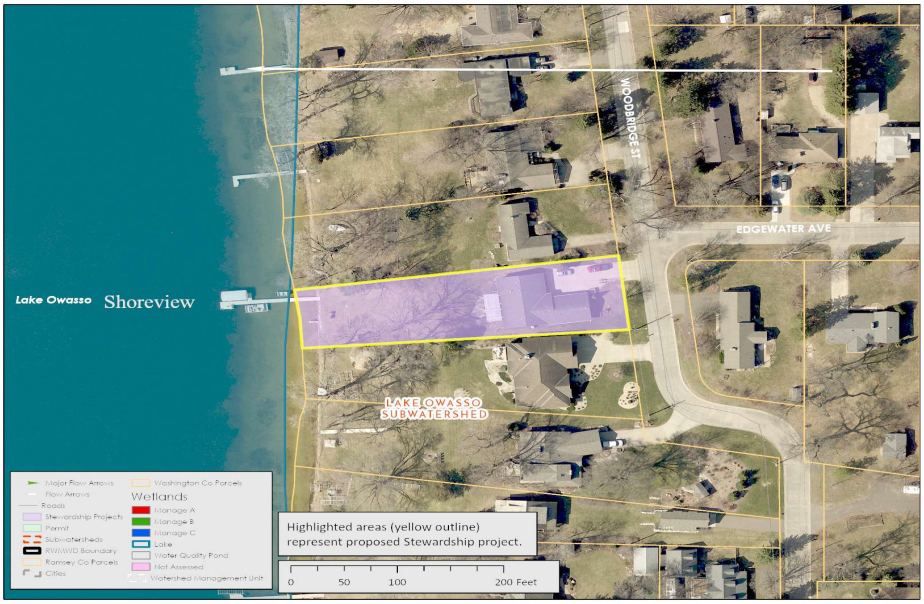
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Lake Owasso

Location Maps:



25-05 CS-A

LEGEND

- 887.10' ELEVATION (APPROXIMATE) (LAKE OWASSO ORDINARY HIGH WATER LEVEL)
- EXISTING SHORELINE LOCATION (APPROXIMATE)
- PARCEL BOUNDARY (APPROX.)
- EXCLUSION FENCE
- 2' CONTOUR ELEVATION
- REVEGETATION UNIT-1
- REVEGETATION UNIT-2
- REVEGETATION UNIT-3
- REVEGETATION UNIT-4

NOTES

1. PROJECT LAYOUTS & CRITICAL ELEVATIONS SHALL BE STAKED AND VERIFIED BY OWNER REPRESENTATIVE PRIOR TO START AND SHALL REMAIN STAKED THROUGHOUT PROJECT PERIOD.
   1.1 - OHW= 887.10'
2. HERBICIDE APPLICATIONS AND SITE PREPARATION SHALL OCCUR PER PROJECT SPECIFICATIONS. REMOVE ALL EXISTING VEGETATION WITHIN PROPOSED PLANTING/SEEDING AREAS.
3. DEAD TURF TO REMAIN FOR SOIL STABILIZATION. CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL FACILITIES IF REQUIRED; AS APPROVED BY OWNER REPRESENTATIVE.
4. ALL PLANTINGS INSTALLED BELOW WATER LINE, IN SOFT SOILS, OR IN AREAS SUBMERGED DUE TO WATER FLUCTUATIONS SHALL BE BIO-STAKED TO ANCHOR IN PLACE.
5. OWNER REPRESENTATIVE & CONTRACTOR SHALL MARK ANY/ALL UNIQUE ITEMS IN THE FIELD DURING SITE LAYOUT WALKTHROUGH
6. REVEGETATION UNIT-4 MATERIALS SHALL NOT BE INSTALLED BELOW B.F.E. 886.60'; OR AS APPROVED BY OWNER REPRESENTATIVE OR NOTED ON PLANS
7. REVEGETATION UNIT-1 MATERIALS SHALL NOT BE INSTALLED BELOW 887.50'; OR AS APPROVED BY OWNER RESPRESENTATIVE
8. CONTRACTOR & LANDOWNER TO COORDINATE MARKING OF PRIVATE UTILITIES AND/OR SPRINKLER SYSTEMS WHERE PRESENT.
9. EXISTING RIP RAP TO BE SAVED AND REUSED AS LAYER IN NEW RIP RAP. 6-24" NATURAL FIELD STONE TO BE USED TO TOP DRESS AND ADD RIP RAP ROCK AS NEEDED. RE-GRADE SHORELINE BANK AT 3H:1V SLOPE MAX.
10. TEN FOOT WIDE DOCK ACCESS AREA TO BE STABILIZED WITH TIERED BIO D-BLOCK INSTALLATION. SEE PLANS AND DETAILS.
11. STABILIZE ALL AREAS DISTURBED OUTSIDE OF PROJECT AREA WITH NATIVE FESCUE SEED MIX OR APPROVED EQUAL.

Bob Terry
3211 Woodbridge St.
Shoreview, MN 55126

Terry Residence
Shoreline

DATE	REVISIONS

DAVEY Resource Group
1196 7th St E, St. Paul, MN 55106 • 651-202-3062

DRAWN BY	
CHECKED	Checked
APPROVED	Approved
SCALE	AS NOTED

Date: 1/9/25

Sheet No.

Consent Agenda Action Item

Board Meeting Date: February 5, 2025 **Agenda Item No:** 4D

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 2 for the Beltline Mississippi River Branch Outfall Replacement Project

Background:

Change Order No. 2 for the Beltline Mississippi River Branch Outfall Replacement Project is attached. This change order includes adjustments to the plans to accommodate the actual location of the concrete deadmen and tie-rods. The increase in contract price is $60,000.

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:
Approve Change Order No. 2.

Financial Implications:
This change order will increase the contract price by $60,000.

Board Action Requested:
Approve Change Order No. 2.

CHANGE ORDER 2

DATE OF ISSUANCE: **January 28, 2025**
EFFECTIVE DATE: **February 5, 2025**

PROJECT: BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT PROJECT
OWNER: Ramsey-Washington Metro Watershed District (RWMWD)
CONTRACTOR: Minger Construction Co., Inc. (Minger)

NOTIFICATION NAME and ADDRESS:
Mr. Josh Phleger
620 Corporate Drive
Jordan, MN 55352

ENGINEER:
Barr Engineering Co. (Barr)
4300 MarketPointe Drive, Suite 200
Minneapolis, Minnesota 55435
Attn: Joe Welna, P.E.

You are directed to make the following changes in the Contract Documents

2-1. Excavation Support Modifications

Description: During the site investigations, Minger Construction Co. (Minger) determined that the concrete deadmen and tie-rods supporting the river wall were not accurately depicted in the record drawings provided by Saint Paul Port Authority (SPPA) and included in the Construction Drawings for reference by Barr Engineering Co.. Figure 1 below shows what the record drawings indicated and Figure 2 shows what was actually found during Minger's site investigation. The deadmen are shown in green and the tie rods are shown in red.

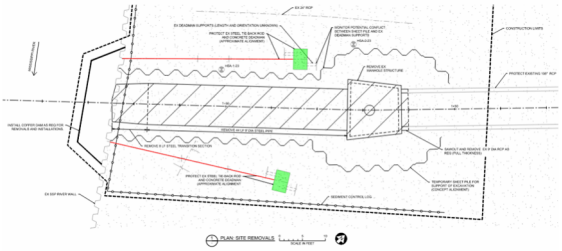


Figure 1 ***Assumed Deadmen and Tie Rod Configuration***

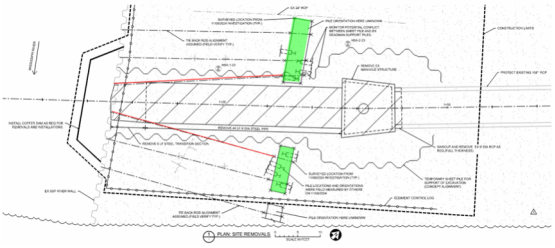


Figure 2 ***Actual Deadmen and Tie Rod Configuration***

The actual deadmen and tie rod configuration were much closer to the existing pipe that is planned for removal and replacement and makes the shoring and excavation sequence significantly more complicated

and congested. Photos showing the congestion and formwork modification in the excavation extents are provided in Figure 3.

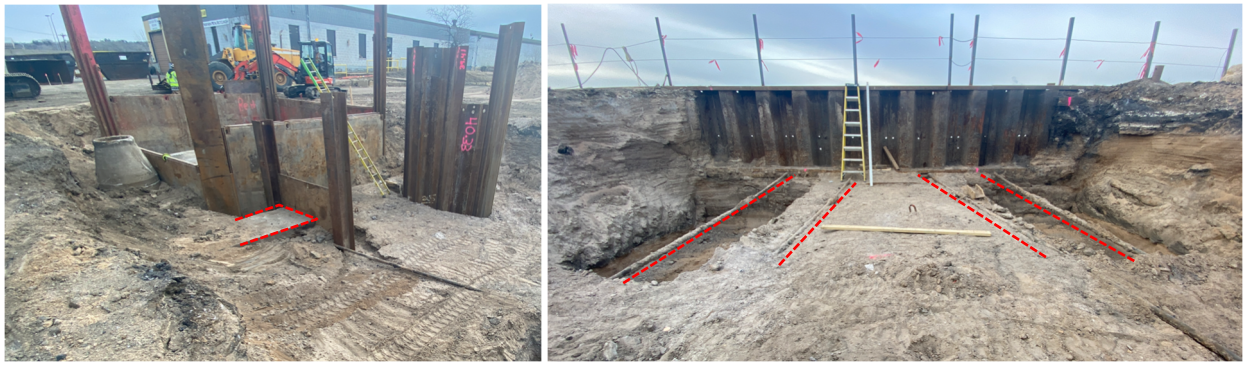


Figure 3 Congestion and Formwork Modifications

Reason for Change Order: Geometry of the tie rods and deadmen supporting the river wall are different than what was assumed during design and bidding. The resulting configuration results in a more complicated sequencing that takes additional time to execute.

Change in Contract Price: This change results in an increase to the contract price by $60,000 as set forth in Attachment 1.

Change in Contract Time: This work will not change the contract time.

Change in Contract Time: A change in contract time is not anticipated at this time but may be required based on investigation findings.

RECOMMENDED:	ACCEPTED:	APPROVED:
By	By	By
Date January 28, 2025	Date	Date
ENGINEER Barr Engineering Co.	CONTRACTOR Minger Construction Co., Inc.	OWNER Ramsey-Washington Metro Watershed District

Attachment 1

Minger Change Order Request

Minger Construction Co., Inc.

620 Corporate Drive
Jordan, MN 55352

PHONE: 952-368-9200 FAX: 952-368-9311

RCP Shoring Added Costs Due to Concrete Deadman & Tieback Locations

Date: 1/6/25

During site investigations Minger Construction Co. determined that the concrete deadman and associated tiebacks for the permanent sheeting wall along the river are closer to the existing beltline storm sewer than shown in the contract documents. Due to the proximity of the concrete deadman to the pipe specialty shoring will need to be installed to support the deadman in their current locations as these cannot be removed. Additionally, the two tiebacks closest to the pipe on each side will be in direct conflict with the sewer shoring and will need to be removed to install the new pipe. To maintain stability of the permanent sheeting wall with the tiebacks removed the soil behind the wall will need to be removed. The project team decided a sub cut behind the wall was the best way to unload the wall and expose the tiebacks near the work area for removal and proper placement of the sewer shoring. The subcut requires precise excavation and backfilling around and below the tiebacks to prevent any permanent damage to the tiebacks not be removed which is a slow process. Due to a subcut being needed Minger will need to utilize a crane to install the new RCP rather than a backhoe as originally anticipated. Due to these changes Minger is proposing the following additional costs:

- 4 days to excavate subcut around RCP Shoring and below tiebacks, remove (2) tiebacks, and backfill subcut once new work is completed ($27,000)
- 3 days to install and remove H pile specialty shoring around concrete deadman and piling ($20,000)
- Additional contractor design SOE engineering for subcut and specialty shoring ($7,000)
- Cost to mobilize and utilize crane to erect new RCP less costs for using backhoe ($6,000)

Total Proposal: $60,000

Consent Agenda Item

Board Meeting Date: February 5, 2025 **Agenda Item No:** 4E

Preparer: Tina Carstens, Administrator

Item Description: District Liability Insurance Coverage Waiver

Background:
As required by our annual insurance renewal application, we need to stipulate whether the District waives the tort liability limits set by the legislature for government agencies. The District has historically chosen not to waive the liability limits, which limits our exposure to liability claims to the legislative limit of $500,000 per individual or $1,500,000 in total. I have completed the form accordingly and attached it to this request for board action.

Applicable District Goal and Action Item:

Goal: Manage effectively: The District will operate in a manner that achieves its mission while adhering to its core principles.

Action Item: Follow all legal requirements applicable to watershed districts.

Staff Recommendation:
Approve the Liability Coverage Waiver Form indicating the District does not waive the monetary limits on municipal tort liability.

Financial Implications:
There are no budget implications for this action at this time.

Board Action Requested:
Approve the Liability Coverage Waiver Form indicating the District does not waive the monetary limits on municipal tort liability.

LEAGUE of MINNESOTA CITIES

LIABILITY COVERAGE WAIVER FORM

Members who obtain liability coverage through the League of Minnesota Cities Insurance Trust (LMCIT) must complete and return this form to LMCIT before their effective date of coverage. Email completed form to your city's underwriter, to pstech@lmc.org, or fax to 651.281.1298.

Members who obtain liability coverage from LMCIT must decide whether to waive the statutory tort liability limits to the extent of the coverage purchased. *The decision to waive or not waive the statutory tort limits must be made annually by the member's governing body, in consultation with its attorney if necessary.* The decision has the following effects:

- *If the member does not waive the statutory tort limits*, an individual claimant could recover no more than $500,000 on any claim to which the statutory tort limits apply. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would be limited to $1,500,000. These statutory tort limits would apply regardless of whether the member purchases the optional LMCIT excess liability coverage.

- *If the member waives the statutory tort limits and does not purchase excess liability coverage*, a single claimant could recover up to $2,000,000 for a single occurrence (under the waive option, the tort cap liability limits are only waived to the extent of the member's liability coverage limits, and the LMCIT per occurrence limit is $2,000,000). The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to $2,000,000, regardless of the number of claimants.

- *If the member waives the statutory tort limits and purchases excess liability coverage*, a single claimant could potentially recover an amount up to the limit of the coverage purchased. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to the amount of coverage purchased, regardless of the number of claimants.

Claims to which the statutory municipal tort limits do not apply are not affected by this decision.

LMCIT Member Name: Ramsey-Washington Metro Watershed District

Check one:

☒ The member **DOES NOT WAIVE** the monetary limits on municipal tort liability established by Minn. Stat. § 466.04.

☐ The member **WAIVES** the monetary limits on municipal tort liability established by Minn. Stat. § 466.04, to the extent of the limits of the liability coverage obtained from LMCIT.

Date of member's governing body meeting: February 5, 2025

Signature: Tina Carstens

Position: Administrator

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Permit Program

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Permit Application Coversheet

Date February 05, 2025

Project Name Keller Golfview Parking Improvements Project Number 25-03

Applicant Name Benjamin Karp, Ramsey County Parks & Recreation

Type of Development Parking Lot

Property Description

This project is located at Keller Regional Park, east of Highway 61 near Keller Creek in the City of Maplewood. The applicant is proposing to improve parking availability, access, and lighting near the park's popular tuj lub courts. The total disturbed site area is 1.23 acres. Permeable asphalt is proposed to meet stormwater treatment requirements. A 100-ft average vegetated buffer is proposed to be maintained along Keller Creek.

Watershed District Policies or Standards Involved:

- ☐ *Wetlands*
- ☑ *Erosion and Sediment Control*
- ☑ *Stormwater Management*
- ☐ *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.

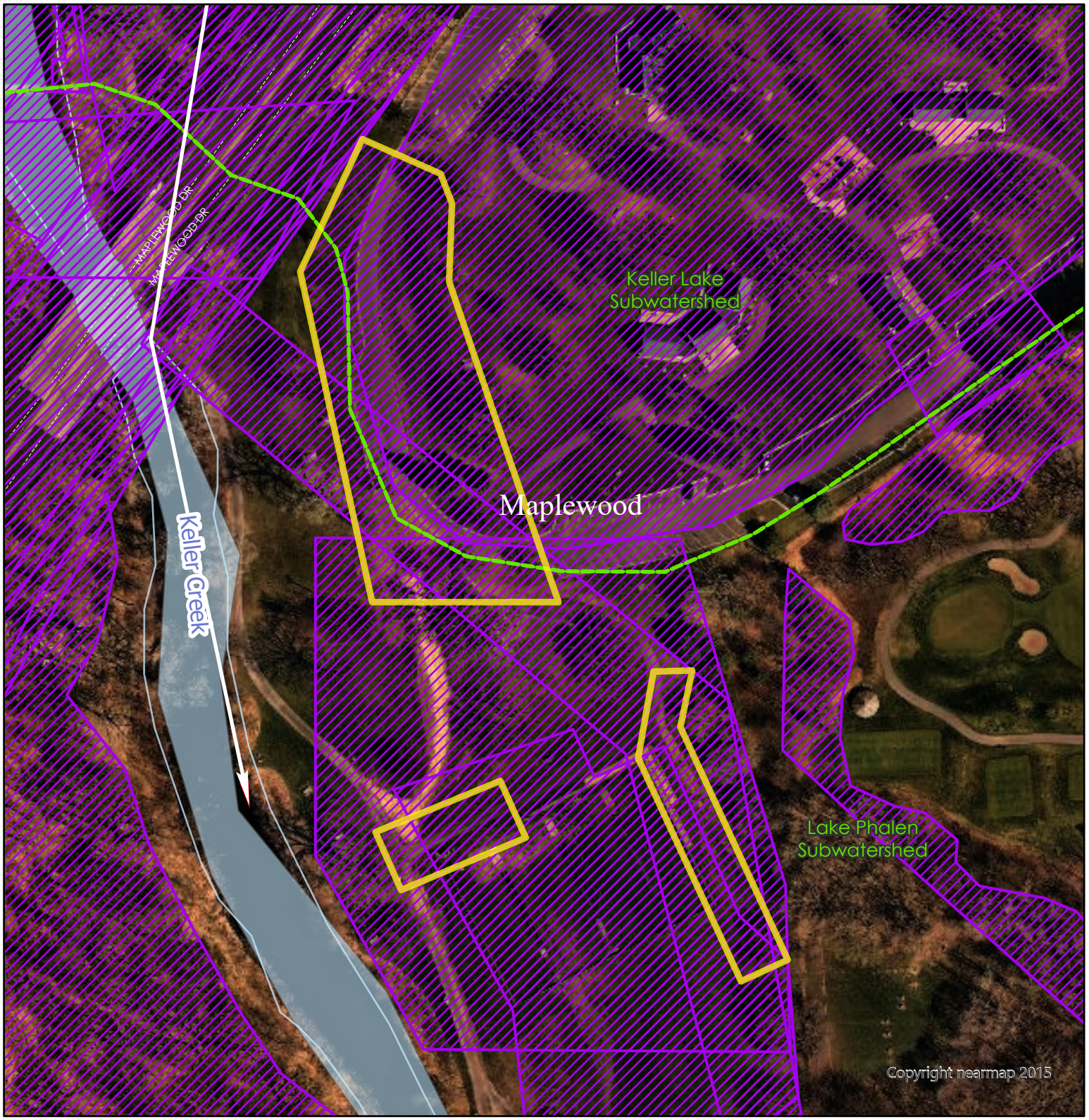
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- ☑ Project Location Map
- ☑ Project Grading Plan

#25-03 Keller Golfview Parking Improvements



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

- Flow Arrows
- Flow_Arrows (Major)
- Roads
- Permits
- Cities
- Subwatersheds
- Lakes
- RWMWD Boundary

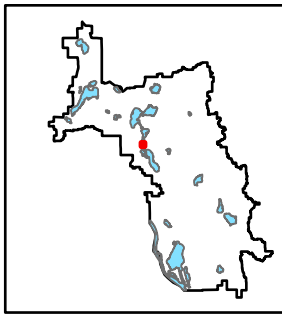
Shaded area is outside RWMWD

Highlighted Areas
Represent Active Permit

Miles
0 0.02 0.04

US Feet
0 100 200

N

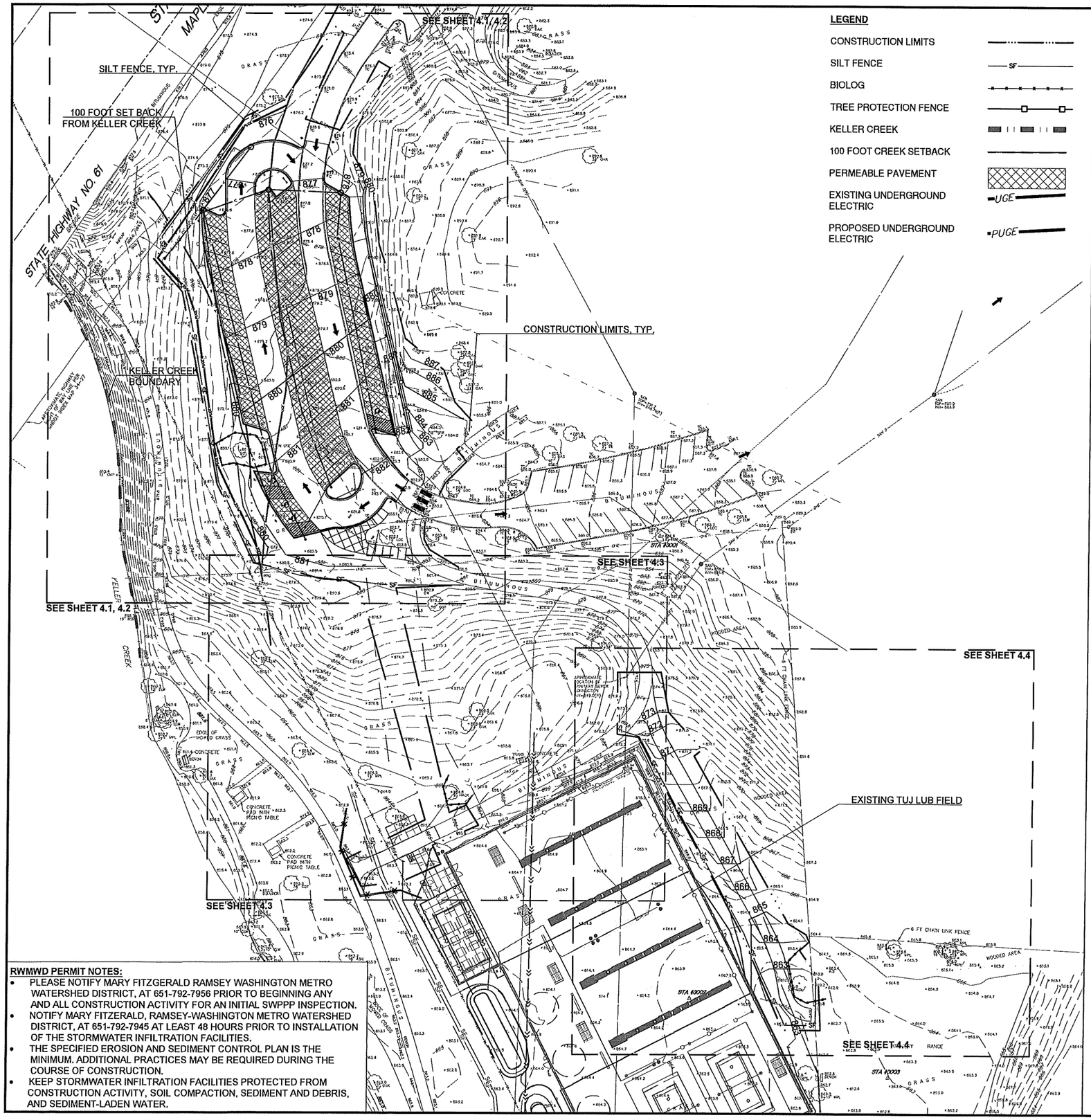


25-03

Special Provisions

1. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).

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



LEGEND

- CONSTRUCTION LIMITS
- SILT FENCE — SF —
- BIOLOG
- TREE PROTECTION FENCE
- KELLER CREEK
- 100 FOOT CREEK SETBACK
- PERMEABLE PAVEMENT
- EXISTING UNDERGROUND ELECTRIC — UGE —
- PROPOSED UNDERGROUND ELECTRIC — PUGE —

GENERAL GRADING PLAN NOTES:

CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC CONDITIONS PRIOR TO CONSTRUCTION START. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS. ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER or OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

CONTRACTOR SHALL CONTACT "GOPHER STATE ONE CALL" FOR ALL UTILITY LOCATIONS (651-454-0002) 48 HR. PRIOR TO EXCAVATION/CONSTRUCTION.

CONTRACTOR TO VERIFY HORIZONTAL LOCATION AND ELEVATION WHERE A CONNECTION TO EXISTING PAVEMENT, STRUCTURE OR SITE FEATURE IS TO BE MADE.

CONTRACTOR TO WORK OUT OF TREE DRIP ZONE EXCEPT IN AREAS DESIGNATED BY LANDSCAPE ARCHITECT.

CRITICAL LAYOUT DIMENSIONS: THE OWNER OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REVISE THE PROJECT LAYOUT TO AVOID UNFORESEEN CONSTRAINTS SUCH AS MATURE TREES, UNFORESEEN SOIL CONSTRAINTS, ETC. THESE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES, TREES, SITE AMENITIES, ETC. FROM DAMAGE DURING CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTORS EXPENSE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATES. LOCATES SHALL BE MARKED IN THE FIELD FOR REVIEW BY THE OWNER OR OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL STAY WITHIN CONSTRUCTION LIMITS UNLESS APPROVED OTHERWISE BY THE OWNER OR OWNERS REPRESENTATIVE. THE WORK ZONE SHALL BE KEPT AS MINIMAL AS POSSIBLE DURING CONSTRUCTION. MOVEMENT AND PARKING OF EQUIPMENT SHALL STAY WITHIN WORK ZONE AND NOT CROSS AREAS OTHERWISE UNDISTURBED DURING EARTHWORK OPERATION.

SPOT GRADES & DRAINAGE REQUIREMENTS: ALL SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADE UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL REVIEW GRADING WITH THE LA-ENG.. PRIOR TO EARTHWORK TO ENSURE PROPER DRAINAGE. THE INTENT OF ALL PROPOSED SPOT GRADES AND GRADING IS TO MATCH EXISTING GRADES ADJACENT TO NEW CONSTRUCTION TO ENSURE PROPER DRAINAGE AND BLENDING OF NEW GRADES WITH EXISTING ONES. MAX.. SLOPES SHALL NOT BE GREATER THAN 4:1 UNLESS OTHERWISE NOTED ON THE PLAN.

SUB CUT REQUIREMENTS: GRADES AS SHOWN ARE TO FINISH GRADE. CONTRACTOR SHALL SUB CUT IN ACCORDANCE WITH PAVEMENT AND FIELD SECTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SURVEYING RELATING TO LAYOUT & SITE GRADING. THE CONTRACTOR SHALL FIELD VERIFY ALL GRADES WITH THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES OR VARIATION FROM PLAN.

TOPSOIL STRIPPING, STOCKPILING AND RE-SPREADING REQUIREMENTS: TOPSOIL SHALL BE STRIPPED FROM ALL DISTURBED AREAS FROM COMMON EXCAVATION AND SHALL BE SALVAGED AND STOCKPILED. THE LANDSCAPE ARCHITECT SHALL DETERMINE PLACEMENT OF THE STOCKPILE PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL STRIP, STOCKPILE & RE-SPREAD SUFFICIENT TOPSOIL TO PROVIDE A MINIMUM 4 INCH DEPTH (COMPACTED) TO ALL DISTURBED AREAS TO BE SEEDED, UNLESS OTHERWISE NOTED. ALL DISTURBED AREAS TO RECEIVED SEED/TURF ESTABLISHMENT AND ADD SOIL AMENDMENTS FOR OPTIMUM PLANT GROWTH. TOPSOIL SHALL BE IN A RELATIVELY DRY STATE WHEN PLACED. FINE GRADE TOPSOIL TO ELIMINATE ROUGH OR LOW SPOTS. MANUALLY SPREAD TOPSOIL CLOSE TO TREES, PLANTS, AND PAVEMENT TO PREVENT DAMAGE.

SOIL NOT SUITABLE TO BE USED ON SITE OR UNDER STRUCTURAL SITE ELEMENTS, BUT ACCEPTABLE FOR GENERAL LANDSCAPE FILL MAY BE PERMANENTLY DISPOSED OF ON RAMSEY COUNTY PARKS PROPERTY IN KELLER REGIONAL PARK AS DIRECTED BY OWNER. SOILS DISPOSED AT THAT LOCATION MUST MEET THE REQUIREMENTS OF THE SWPPP FOR STOCKPILE OR PERMANENT STABILIZATION.

IMPORTED TOPSOIL SHALL BE PLACED IN AREAS WITH INADEQUATE TOPSOIL AS DETERMINED IN THE FIELD BY OWNER'S REPRESENTATIVE. CLEAN TOPSOIL IMPORT SHALL CONFORM TO MNDOT 3877 TYPE A REQUIREMENTS

SILT AND TREE PROTECTIVE FENCE: CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SILT FENCE PER PLAN PRIOR TO CONSTRUCTION. SILT FENCE LOCATIONS SHALL BE REVIEWED PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL STORM DRAIN INLETS AND PERMEABLE PAVEMENTS IN THE PARK. THIS INCLUDES THE EXISTING PARKING LOT AREAS WHERE TRUCKS WILL BE HAULING. REFER TO SWPPP FOR SPECIFIC REQUIREMENTS.

CONTRACTOR SHALL ERECT AND MAINTAIN PROTECTIVE FENCING FOR EXISTING TREES THAT ARE TO REMAIN AND THAT ARE NEAR THE CONSTRUCTION ZONE. OWNER WILL WALK THE SITE WITH THE CONTRACTOR PRIOR TO ROUGH GRADING TO IDENTIFY TREES TO BE PROTECTED TREE PROTECTION INCLUDING PROTECTIVE FENCING SHALL BE CONSIDERED INCIDENTAL TO THE GRADING WORK AND SHOULD BE INCLUDED IN THE CONTRACTORS BID PRICE FOR THAT WORK REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

OTHER NOTES
N.I.C. = NOT IN CONTRACT

CONTRACTOR IS REQUIRED TO HAVE OWNER CONFIRM AND APPROVE FIELD BASE PIPING, SAND LAYER WITH GEOTEXTILE, STONE BASE, AND FINAL TOLERANCE OF FIELD. FINAL TOLERANCE WILL NEED TO MEET FIELDTUR'S REQUIREMENTS FOR LEVEL AND COMPACTION FOR ATHLETIC FIELDS.

KELLER CREEK100 YEAR FLOOD ELEVATION = 861.6
CONFIRMED BY RAMSEY WASHINGTON METRO WATERSHED DISTRICT

ASSUMED KELLER CREEK ORDINARY HIGH WATER LEVEL = 860.0 feet
(vertical datum NAVD88).
AS PROVIDED BY MN DNR

NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR
TO VERIFY ALL QUANTITIES FOR BIDDING

RWMWD PERMIT NOTES:

- PLEASE NOTIFY MARY FITZGERALD RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7956 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION.
- NOTIFY MARY FITZERALD, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7945 AT LEAST 48 HOURS PRIOR TO INSTALLATION OF THE STORMWATER INFILTRATION FACILITIES.
- THE SPECIFIED EROSION AND SEDIMENT CONTROL PLAN IS THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.
- KEEP STORMWATER INFILTRATION FACILITIES PROTECTED FROM CONSTRUCTION ACTIVITY, SOIL COMPACTION, SEDIMENT AND DEBRIS, AND SEDIMENT-LADEN WATER.

RAMSEY COUNTY
Parks & Recreation

CONTACT INFORMATION:
benjamin.karp@co.ramsey.mn.us
651.266.0371

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.

Registration:	Landscape Architect
State:	Minnesota
Number:	60516
Signature:	Benjamin M. Karp

NO.	DATE:	DESCRIPTION:
1	1-15-25	BID DOCUMENTS

DESIGN PHASE:

BID DOCUMENTS

TUJ LUB COURT PARKING EXPANSION PROJECT

RAMSEY COUNTY PARKS AND RECREATION DEPARTMENT
KELLER REGIONAL PARK

DATE:	JANUARY, 2025
DESIGNED BY:	BMK/BGB
DRAWN BY:	BMK/BGB
CHECKED BY:	BMK/BGB

TITLE

GRADING & DRAINAGE PLAN

BD 4.0

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

PERMIT PROGRAM MONTHLY MEMORANDUM

Date: February 5th, 2025

To: Board of Managers and Staff

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

During January 2025:

Number of Violations:	**5**
Install/Maintain Inlet Protection	1
Install/Maintain Construction Entrance	1
Install/Maintain Perimeter Control	1
Stabilize Exposed Soils	1
Install/Maintain Ditch Checks	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, preconstruction meeting, BMP cost-benefit analysis, GIS check-in, Leadership Essentials Certification coursework, BMP Maintenance Program updates, DEIA Workgroup monthly meeting, Watershed Equity Alliance monthly meeting, Minnesota Erosion Control Association (MECA) Conference – St. Cloud, U of M Environmental Career Fair

Single Lot Residential Permits Approved by Staff:

None

Permits Closed:

None

Project Updates:

#21-16 Metro Transit Gold Line BRT (Landfall, Maplewood, Oakdale, St. Paul, Woodbury)

Staff conducted a routine inspection of the Gold Line bus rapid transit project on January 6th. The project is nearing completion, and a large majority of the site is temporarily and permanently stabilized for winter conditions. There is a small amount of winter work occurring on the project, including safety fence installation and traffic control lighting. Once spring of 2025 comes around, staff's site priorities will be to look for permanent restoration of disturbed soils and to inspect all 34 permanent stormwater BMPs for proper functionality.

#24-48 Shoreview Villas I (Shoreview)

The Shoreview Villas project began late fall 2024 and has since completed mass grading, utilities and some road preparation. The site has repeatedly been compliant and seems to be putting erosion and sediment control at the top of their priority list. Staff conducted a routine inspection on January 8th and found the site to be inactive, with exposed soils stabilized. Staff did discover a small section of soil stabilization

missing near a riprapped outlet. The site quickly addressed this by adding more straw mulch to cover the soil.

#24-50 St. Paul Flandreau-Case Pond Improvements (St. Paul)

The city of St. Paul's water quality improvement and flood reduction project near Sackett Park has started up in the month of January. Staff have attended two pre-construction meetings, one initial erosion control walk-through, and one weekly site meeting thus far for the project. Our role is to ensure all site practices meet our permit rules throughout the duration of the project. During the initial erosion control walk-through on January 22nd, staff noted that a temporary diversion channel needed required soil stabilization of the last 200 lineal feet before its offsite discharge in order to be compliant with the permit. Staff also explained that the diversion channel would need to be monitored closely during warmer days to ensure only clean water discharges from the site. This site will be on a regular inspection schedule until the project is complete.

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Stewardship Grant Program

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Stewardship Grant Program Budget Status Update

February 5, 2025

		Last Month	This Month	Last Month	This Month
Homeowner	**Coverage**	**Number of Projects: 0**	**Number of Projects: 6**	**Funds Allocated**	**Funds Allocated**
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share $15,000 Max	0	3	$0	$2,850**
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share $15,000 Max	0	2	$0	$20,350*
MN Water Steward Project	100% Cost Share $15,000 Max	0	0	$0	$0
Shoreland Restoration	100% Cost Share $15,000 Max	0	1	$0	$15,000*

		Last Month	This Month	Last Month	This Month
Commercial, School, Government, Church, Associations, etc.	**Coverage**	**Number of Projects: 0**	**Number of Projects: 0**	**Funds Allocated**	**Funds Allocated**
Habitat Restoration	50% Cost Share $15,000 Max	0	0	$0	$0
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	0	0	$0	$0
Non-Priority Area Projects	75% Cost Share $50,000 Max	0	0	$0	$0
Public Art	50% Cost Share $15,000 Max/Project	0	0	$0	$0
Aquatic Veg Harvest/LVMP Development	50% Cost Share $15,000 Max	0	0	$0	$0
Enhanced Street Sweeping ($250,000 Reserved)	Varies Cost Share $100,000 Max	0	0	$0	$0

Maintenance	50% Cost Share $7,500 Max for 5 Years	83	67	$68,635	$56,935**
Consultant Fees				$0	$0
Total Allocated				**$68,635**	**$95,135**

**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	$68,635	$95,135
Total Available Funds	**$1,181,365**	**$1,154,865**

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New Reports/ Presentations

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Technical memorandum

To: Paige Ahlborg and Ashlee Ricci (Ramsey-Washington Metro Watershed District)
From: Michael McKinney and Erin Anderson Wenz (Barr Engineering Co.)
Subject: Summary of the 2024 enhanced street sweeping program
Date: January 24, 2025
Project: 23621200.23-002-003
c: Brad Lindaman (Barr Engineering Co.)

In 2022, the Ramsey-Washington Metro Watershed District (RWMWD) and Barr Engineering Co. completed a district-wide street sweeping prioritization project. The major goals of the study were to (a) evaluate existing street sweeping throughout the district, (b) evaluate and prioritize enhanced street sweeping efforts, and (c) evaluate grant funding strategies for enhanced street sweeping.

Information from the original 2022 study was used to inform development of an enhanced street sweeping pilot program in 2023. Based on the success of the pilot program, the RWMWD board of managers directed the district to expand grant funding for enhanced sweeping and to continue the enhanced street sweeping grant program in 2024. The following technical memorandum summarizes the 2024 enhanced street sweeping grant program, summarizes results from enhanced sweeping efforts conducted throughout the district, and provides recommendations related to implementation of the street sweeping grant program in future years.

1 2024 public works forum summary

Following completion of the 2023 pilot street sweeping grant program (Barr, 2024), the board approved the creation of a dedicated street sweeping grant program for 2024 with a budget of $250,000 to support enhanced street sweeping efforts within the district. The 2024 grant program was initially shared with member cities at a public works forum on January 25, 2024. In addition to advertising the program, the forum was leveraged to share results of the 2023 pilot program and solicit feedback from member cities on material weight collection and vehicle tracking technologies (e.g., automated vehicle locating (ALV)). Key takeaways from the forum include:

- **General interest:** Member cities were appreciative of the street sweeping grant program and looked forward to continued implementation. Many cities that participated in the 2023 pilot program were interested in submitting applications for the 2024 program.
- **Long-term support and equipment repair and acquisition:** Several member cities inquired about the possibility of longer-term support beyond the annual support provided through the grant program (e.g., funding for multiple years to allow for longer-term planning, such as hiring and equipment acquisition, and support related to repairing and/or acquiring equipment).
- **ALV:** Several cities that already using asset management programs and ALV, including Roseville and Woodbury, shared information on ALV implementation and highly recommended the technology.
- **Weight collection:** Cities shared ideas for measuring vehicle weights on street sweepers to estimate the weight of collected materials. Several cities receive this data at disposal locations, but operators suggested how to acquire weights on individual street sweepers for specific days by

utilizing vehicle weight pads (relatively cheap weight collection pads that vehicles can park on to obtain weights, both loaded and unloaded, to estimate the weight of collected material).

2 2024 street sweeping grant program approach and selected grantees

Following the approach from the 2023 pilot program, the RWMWD and Barr hosted meetings with the City of North Saint Paul (February 23, 2024) and the City of Saint Paul (June 12, 2024) to discuss existing sweeping efforts, the challenges of performing additional sweeping, and options for district support. North Saint Paul was initially interested but ultimately did not apply. (Note: North Saint Paul far exceeds the RWMWD's baseline recommendation for annual street sweeping (Barr, 2022)). Saint Paul showed interest in applying and requested mapping showing priority street sweeping areas within the city, which Barr developed and provided.

The RWMWD also had several conversations and email correspondences with member cities following the public forum meeting. The cities of Landfall, Oakdale, White Bear Lake, and Woodbury showed interest in continuing to participate in the grant program; all four cities were awarded grant funding during the 2023 pilot program. The City of Roseville requested funding to hire an intern to support the city's enhanced street sweeping initiatives, including conducting research and street sweeping material sampling. Table 1 provides a summary of the 2024 grant applications received and the amount of funding awarded.

Table 1 2024 grant funding request and award summary

Grant number	City	Grant funding request	Description of enhanced sweeping efforts supported by the grant
24-17 CS	Landfall	$6,375	Increase annual sweeping from two to five times per year
24-18 CS	Oakdale	$32,000	Add a sweeping in spring and summer and continuing two fall sweepings with a rental sweeper; offset costs with hauling and wear items such as brooms, dirt shoes, etc.
24-06 CS	Roseville	$3,000	Hire an intern to expand staff capacity, establish procedure, and verify field data
24-46 CS	Roseville	$3,216	Add more sampling and testing as part of the pilot-program document sampling procedure
24-55 CS	Saint Paul	$100,000	Perform 12 additional sweepings at $8,000 per day for one street sweeping crew
24-21 CS	White Bear Lake	$27,000	Add a sweeping in spring and summer and one or two additional sweepings in fall to be contracted directly between a contractor and the RWMWD
24-08 CS	Woodbury	$75,000	Add a sweeping monthly from May to September and two to three additional sweepings in fall

All grantees were required to submit invoices detailing the work and total cost to complete enhanced sweeping efforts. The RWMWD also requested that cities and contractors collect and report swept material weight to assist with the cost-benefit evaluation described in the following section.

Figure 1 shows the areas included in each city's informal grant-funding request and highlights portions not within the RWMWD legal boundary. The following section summarizes the implementation of the 2024 enhanced street sweeping grant program.

3 2024 enhanced street sweeping grant program summary

Throughout 2024, the RWMWD coordinated with city grantees to implement the enhanced sweeping efforts outlined in Table 1. The cities of Landfall, Oakdale, Saint Paul, and Woodbury conducted sweeping efforts in-house or through existing relationships with street sweeping contractors. The RWMWD helped White Bear Lake implement enhanced sweeping efforts, contracting directly with Reliakor Services, Inc., to conduct enhanced street sweeping.

Table 2 summarizes the awarded and utilized grant funding, and Table 3 summarizes total phosphorus (TP) and the cost-benefit ratios associated with enhanced street sweeping efforts. Table 2 shows that 55 percent of the $250,000 budget allocated for the 2024 program was utilized to support enhanced sweeping efforts in the district. The City of Saint Paul utilized far less funding than anticipated; enhanced sweeping efforts were performed citywide, and ultimately, Saint Paul only requested grant funding for portions of the city within the RWMWD hydrologic boundary.

Table 3 shows the TP recovery value associated with tons of collected swept material as determined using the MPCA Street Sweeping Phosphorus Credit Calculator (Hobbie et al., 2020). Table 3 supports findings that suggest street sweeping is a highly cost-effective non-structural best management practice (BMP) (Hobbie et al, 2020; EOR, 2022).

Table 2 2024 enhanced street sweeping grant program funding summary

City	Grant funding summary		
	Awarded to grantee	Utilized	Remaining
Landfall	$6,375	$1,520	$4,855
Oakdale	$32,000	$30,747	$1,253
Roseville	$3,000	$3,216	-$216
Roseville	$3,216	$1,200	$2,016
Saint Paul	$100,000	$10,153	$89,847
White Bear Lake	$27,000	$36,386	-$9,386
Woodbury	$75,000	$49,783	$25,217
TOTAL	**$246,591**	**$133,005**	**$113,586**

Table 3 2024 enhanced street sweeping grant program TP recovery and cost-benefit summary

City	Downstream water bodies in the RWMWD	Description of enhanced sweeping performed	Grant funding utilized	TP recovery summary		
				Material collected (tons) [1,2]	Estimated TP recovery (lbs)	TP recovery cost benefit ($/lb)
Landfall	Battle Creek Lake, Tanners Lake	One additional citywide street sweeping in July 2024 (contracted)	$1,520	-- [3]	-- [3]	-- [3]
Oakdale	Beaver Lake, Tanners Lake, Battle Creek Lake	One additional spring sweeping, one additional summer sweeping, and two additional fall sweepings supported by a rented sweeper	$30,747	368.8	243.2	$126
Roseville	Lake Owasso	Collection and water quality testing of three street sweeping samples collected in August 2024	$3,216	NA	NA	NA
		Hiring of an intern to assist with monitoring, tracking, and improvement of the city's street sweeping program	$1,200	NA	NA	NA
Saint Paul	Lake Phalen, Mississippi River, Battle Creek, Fish Creek	Four prioritized street sweeping activities in November, targeting leaf drop	$10,153	55.0	49.5	$205
White Bear Lake	Willow Creek, Kohlman Lake	One additional citywide sweeping in May, one in early October, and continuous sweeping in October and November during leaf drop (contracted)	$36,386	-- [3]	-- [3]	-- [3]
Woodbury	Battle Cree Lake, Battle Creek, Carver Lake, Fish Creek	One citywide sweeping in July, August, and September and three sweepings in October	$49,783	158.7	133.6	$373

1 TP recovery estimated from tons of material collected utilizing the MPCA Street Sweeping Phosphorus Credit Calculator (Hobbie et al., 2020)

2 Citywide material (tons) collected from each city within the RWMWD hydrologic boundary

3 Contractor did not submit collected material records associated with enhanced sweeping performed

Snail Lake
Grass Lake North
Grass Lake
West Vadnais Lake
Lake Wabasso
Twin Lake
Willow Creek
Gervais Creek
Kohlman Lake
Kohlman Creek
Lake Owasso
Gervais Creek south
Gervais Lake
Keller Lake
PCU pond
Lake Phalen
Beaver Lake
St. Paul Beltline
Tanners Lake
Battle Creek west
Battle Creek
Battle Creek Lake
Blufflands
Carver Lake
Fish Creek

White Bear Lake: additional citywide sweeping conducted in May, September, October, and November (contracted)

Oakdale: 2 additional Citywide sweeps in the fall using rental sweeper in addition to municipal sweepers

Roseville: street sweeping intern and collection and testing of street sweeping samples

Saint Paul: 4 prioritized street sweeping activities in November, targeting leaf drop

Landfall: 1 additional sweep in July (contracted)

Woodbury: 1 citywide sweeping in July, August, September. 3 Sweepings in October.

Earthstar Geographics

Lakes and Waterbodies
RWMWD Legal Boundary
Major Watersheds
Enhanced Street Sweeping Locations (2024)
Municipal Boundary

N
0 1 2
Miles

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

RWMWD'S 2024 ENHANCED SWEEPING GRANT PROGRAM PARTICIPANTS
2024 Enhanced Street Sweeping Program

FIGURE 1

BARR

4 2024 summary of Roseville street sweeping sampling

The City of Roseville collected three representative samples of street sweeping material utilizing methodology from the Minnesota Stormwater Manual: Methods for sampling street sweeping material–standard operating procedures. All three samples were taken from swept material collected during street sweeping operations conducted on August 9, 2024. Key sampling results are included in Table 4 below.

Table 4 Summary of Roseville street sweeping sample data

Sample	Collection date	Non-fall versus fall	TP (mg/kg)	Moisture content
B1T1001-2011	8/9/2024	Non-fall	456	25.9%
B2T1012-2022	8/9/2024	Non-fall	515	33.1%
B3T1023-1033	8/9/2024	Non-fall	519	31.5%

The MPCA Street Sweeping Phosphorus Credit Calculator (Hobbie et al., 2020) utilizes moisture content and TP concentration (milligrams of TP per kilogram of material) to estimate TP recovery associated with the total weight of collected street sweeping material. If the user does not enter information for these parameters, the model assumes the default values for moisture content and TP concentration shown below in Table 5.

Table 5 Default parameters assumed in the MPCA Street Sweeping Phosphorus Credit Calculator

Season	TP (mg/kg)	Moisture content
Non-fall collection	414	27.8%
Fall leaf collection	857	90.5%

As seen by comparing Table 4 and Table 5, the Roseville samples match closely to the default “non-fall” collection values in the calculator. This result suggests that the default values may be representative of non-fall collection. As outlined in section 5, Barr recommends that the RWMWD continues to support municipal efforts to collect and test street sweeping samples to verify default assumptions for “fall” and “non-fall” collection in the calculator. Additional sampling will help determine the relative value of sampling (e.g., if non-fall sampling continues to closely match default calculator assumptions, cities may have less incentive to perform summer sampling; fall sampling may be recommended if it is determined to be more variable).

5 2025 street sweeping grant program recommendations

Results from the 2023 pilot program and the 2024 street sweeping grant program support research suggesting that street sweeping is a highly cost-effective non-structural BMP (Hobbie et al, 2020; EOR, 2022). Based on the success of two years of implementation, the board approved continuing the enhanced street sweeping grant program in 2025 with a budget of $250,000 (the same total budget as the 2024 program).

On January 9, 2025, the RWMWD and Barr met to discuss 2025 program goals and recommendations, which are outlined below:

- Promote enhanced street sweeping efforts in spring, summer, and fall to further evaluate seasonal benefits of street sweeping. The majority of enhanced street sweeping efforts in 2024 were conducted in summer and fall.
- Promote the collection and testing of material during spring, summer, and fall street sweeping efforts. In particular, fall sampling should be encouraged to verify and compare against default values for moisture content and TP assumed in the MPCA Street Sweeping Phosphorus Credit Calculator (Hobbie et al., 2020).
- Update the grant request for proposals to include and/or clarify the following:
    - Incorporate a deadline (date and time) for application submission to help expedite responses and improve organization and implementation of enhanced street sweeping efforts, particularly in the spring.
    - Require submission of the weight of collected material in order to receive grant funding.
    - Highlight that grant funding may be used to support material sampling and testing and link to resources on how to conduct sampling (e.g., Minnesota Stormwater Manual: Methods for sampling street sweeping material–standard operating procedures).
- Evaluate the impact of sweeping in high-priority sweeping areas (Barr, 2022). Compare street sweeping in high-priority areas to efforts in other areas to evaluate the relative value of focusing street sweeping on high-priority areas.
- Continue to support innovative uses of grant funding to promote enhanced street sweeping. For example:
    - Roseville's use of grant funding to support an internship and material testing
    - Enhanced street sweeping route tracking and/or comparison of collected material within higher- versus lower-priority sweeping areas (Barr, 2022)
    - Comparison of material collected by different sweeper types, combinations of sweepers, and/or tandem sweeping
    - Evaluation and testing of sweeping following spring seed drop
- Continue outreach efforts to member cities, particularly cities that have not yet participated in the program. Member cities already exceeding the RWMWD's baseline seasonal sweeping recommendations may be candidates to explore innovative uses of grant funding, such as those listed above.

Technical Memorandum

To: RWMWD Board of Managers
From: Tyler Olsen and Erin Anderson Wenz
Subject: Project Update – Kohlman Lake Alum Treatment
Date: January 28, 2025
Project: 23621546
c: RWMWD Staff

1 Project Background

The water quality of Kohlman Lake has declined significantly in recent years. During this time there has been intensive aquatic plant (macrophyte) management. Additionally, it has been almost 15 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.

Barr began investigating background information and collecting sediment cores from Kohlman Lake in 2024 to help design a new alum treatment for the lake. The following sections describe the data gathering and analysis completed to-date, preliminary conclusions from the analysis, and proposed next steps.

2 Work Completed To-Date

2.1 Sediment Data

Sediment cores were collected from Kohlman Lake in October 2024. The sediment data was processed in the lab and provided in December. We have reviewed the sediment data for the different phosphorus fractions that are used to calculate an alum dose. The sediment cores show that certain areas of the lake have high mobile phosphorus concentrations, which is phosphorus that can be released under anoxic (low oxygen) conditions. Other areas of the lake have high organic phosphorus concentrations. Organic phosphorus can eventually be mineralized and released into the water column, but the process is slower than anoxic phosphorus release. The sediment data that has been collected for the lake indicate that another alum treatment would be an appropriate approach to manage the lake's internal load of phosphorus.

2.2 Macrophyte Data

Barr reviewed the macrophyte data collected by Ramsey County throughout the growing season of 2024. The data shows that while there was no Eurasian Water Milfoil (EWM) present, there is still approximately 28% areal coverage of Curly-Leaf Pondweed (CLP), as shown in Figure 1. This is lower than the historic presence in the lake (>60% back in early 2000s) but is still at a level that should be actively managed. An alum treatment in Kohlman Lake is expected to significantly clear the water column, promoting the growth of macrophytes as more light can penetrate the water column to reach the lake's sediments. Without control of CLP, this invasive macrophyte is expected to proliferate further, contributing to lake phosphorus concentrations each summer as it dies back in June. For this reason, the presence of CLP, more than other lake macrophytes, is of concern as we considering a future alum treatment in the lake.

Without a Lake Vegetation Management Plan (LVMP), the Minnesota DNR (MnDNR) allows applicators to treat macrophytes with herbicides across a maximum of 15% of a lake's littoral area. The "littoral" area of a lake consists of the parts that are shallow enough to support the growth of rooted plants (macrophytes). Kohlman Lake's littoral area covers 100% of the lake's surface area. Based on the 2024 macrophyte data, we would need to selectively treat the areas with highest CLP density (on the north side of the lake, as shown in Figure 1) to keep treatment within 15% of Kohlman Lake's surface area. With an LVMP, we could do a broader treatment of CLP. The last LVMP for Kohlman expired around 2015, so a new LVMP would need to be developed. The residents have been treating the lake with herbicides almost every year to control all types of vegetation (both native and non-native species).

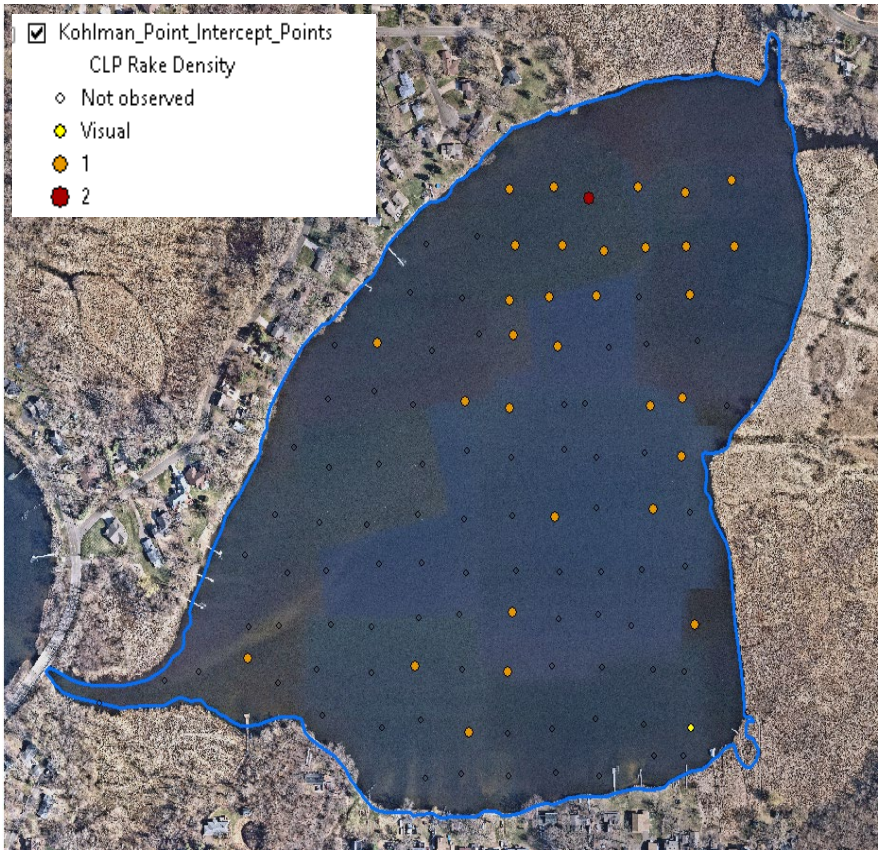


Figure 1. Kohlman Lake Point Intercept Survey Results, June 2024 – Curly-Leaf Pondweed Density

2.3 Preliminary Conclusions

Regardless of the extent of a potential herbicide treatment, CLP will need to be managed either ahead of or in conjunction with an alum treatment to prevent the invasive plant from rebounding significantly with increased water clarity.

Based on the sediment core results, the alum dose may need to be higher than originally estimated. Additionally, alum costs have risen dramatically in the past few years and, depending on the final dose, may be more expensive than the original budget estimate for 2025.

3 Next Steps and Schedule

Given the information above, we propose the following next steps to be taken in preparing for an alum treatment of Kohlman Lake:

1. Barr and RWMWD will arrange to meet with MnDNR staff to discuss CLP management in the lake, to get the DNR's input on a potential herbicide treatment of CLP, and discuss the preferred approach (15% treatment, more than 15% treatment with an accompanying LVMP, timing, etc.).

2. Barr will reach out to alum applicators to see if they have availability in their schedules to treat Kohlman yet this spring – we have heard that one of the main contractors in the Midwest has a very full schedule this year and may be hard pressed to fit Kohlman into the schedule. A fall treatment is an option, but there are drawbacks to doing fall alum treatments (heavy vegetation can interfere with alum settling and cold temperatures can limit alum effectiveness). Also, depending on discussions with the MnDNR, we may want to delay treatment to get CLP under control first.

3. In the meantime, Barr will continue to design the alum treatment (dose, potential treatment areas and timing) and prepare contract documents, assuming we can still do the application this spring. If the alum treatment moves forward this spring, we would seek approval from the Board at the March meeting (including a presentation of the estimated cost of the treatment) and bring qualified bidders back to the Board at the April meeting. Other watershed districts have used public bidding process for recent alum treatments given the increased costs; at this time, we anticipate RWMWD will need to publicly bid this project as well.

Technical Memorandum

To: Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers
From: Barr Engineering Company
Subject: New Technology Topics: Aeration
Date: January 29, 2025

1 Aeration Background

Aeration is the process of injecting air or pure oxygen into a lake to increase dissolved oxygen concentrations. Oxygen transfer occurs from gas to liquid either at the surface of the lake as the lake is mixed or transferred from bubbles moving through the water column. The transfer of oxygen can be maximized by using pure oxygen rather than air. Regardless of what technique is chosen for lake aeration, the goal is the same: increase dissolved oxygen in the lake.

Aeration has been used as a lake management tool for decades, implemented to improve lake water quality. While aeration is often sold as a “cure all” for lakes with water quality issues, aeration is most appropriately used in situations where increased oxygen concentrations in the water column will directly impact lake processes such as hypoxia (low dissolved oxygen at the bottom of the lake). Lake hypoxia can result in lakes sediments releasing problematic compounds such as phosphorus, iron, manganese, and sulfides. The release of these compounds can lead to water quality problems such as eutrophication (severe or toxic algae blooms), taste and odor issues (drinking water supply concerns), and sulfides, which can lead to foul odor among other negative ecological impacts.

Aeration is also commonly used to prevent summer and/or winter fish kill by providing refugia for fish and other organisms that depend on dissolved oxygen in the water column (Vermont Department of Environmental Conservation 2019) (Hudson and Kirschner 1997). In the winter, surface aeration is typically employed by cutting a hole in the ice and inserting a surface aeration device to pump air into the water column. Summer aeration typically targets a much larger area, spreading diffusers throughout a lake to pump air or oxygen into the water column to increase dissolved oxygen concentrations.

While aeration techniques can be highly effective, they are not without potential negative side effects if not implemented properly. For example, if an aeration system is designed to prevent internal phosphorus loading (sediment phosphorus release under anoxic conditions), it can, in some cases, the lake worse by mixing bottom water high in phosphorus concentrations to the surface water, resulting in severe algae blooms. Summer aeration can result in the same problem if it is designed to improve fish habitat without considerations for potential water quality impacts from mixing the lake.

Lake restoration techniques are often oversold by suggesting physical and biological modes of action that are unproven in the scientific literature. Therefore, prior to implementing any lake restoration technique including aeration, specific objectives should be identified prior to selecting the appropriate tool. First, the problem should be clearly identified to determine what restoration techniques are appropriate. For example, if the goal is to prevent internal phosphorus loading by preventing hypoxia (eliminating low oxygen [anoxic] water over the sediments), then aeration may be an effective tool. However, if the goal is to “kill algae,” chemical algaecides may be a better solution, as oxygen may have little or no effect.

This memorandum summarizes frequently asked questions about aeration and four technologies commonly used to aerate a lake.

2 Common Questions about Aeration

2.1 What are the different methods of aeration?

There are two primary methods of aeration. The first method is called forced air aeration, also referred to as whole lake aeration or artificial circulation, which refers to using the force of pumped atmospheric air to move water from the bottom of the lake to its surface. In this manner, water with depleted oxygen is brought to the surface, which interacts with air, incrementally increasing the dissolved oxygen concentration of the water (oxygen diffusion is limited by airspeed and the diffusion rate, which is quantified by the Henry's law constant) (Hudson and Kirschner 1997).

The second method is called oxygenation (or hypolimnetic oxygenation), which refers to pumping oxygen into the water body without intentionally disrupting stratification. Oxygenation works through the dissolution of the oxygen bubbles in the water column (Vermont Department of Environmental Conservation 2019).This implies that there needs to be time for the oxygen bubble to diffuse into the lake water before it rises to the surface. Approaches are being developed to improve oxygen transfer (Clarity Resources Group n.d.).

Section 3 of this memorandum describes four technologies/products that can be classified as either artificial circulation or oxygenation.

2.2 How often does an aeration system need to be run?

During the summer months, it is recommended to keep aeration systems constantly operating, given high sediment oxygen demand (Solitude Lake Management n.d.), (Minnesota Department of Natural Resources n.d.). Sediment oxygen demand is the rate at which dissolved oxygen is removed from the water column by the decomposition of organic matter within the sediment at the bottom of a water body. Operating the aeration system as early in the spring as possible and late into the fall can help to oxidize the sediments as much as possible during these months. With oxygenation, spring operation designed to create supersaturated conditions on the lake bottom will help to oxidize iron and manganese, and provide a buffer of oxidized compounds in the sediment that are then available during the summer months when oxygenation is less effective (Air Diffusion Systems n.d.).

An aeration system can be run in the winter months to prevent winter fish kill resulting from low oxygen concentrations under ice cover (Minnesota Department of Natural Resources n.d.). Also, as ice expands, sheets of ice can be pushed towards the shoreline, causing damage to structures on the shoreline. Aeration causes a thin ice area to be formed which allows for ice expansion without damaging structures (Minnesota Department of Natural Resources n.d.). A permit and various permit application materials are required for winter aeration due to hazards of thin ice (Minnesota Department of Natural Resources n.d.).

2.3 Are there other benefits to aeration besides increases in dissolved oxygen?

The objective of aeration is to increase dissolved oxygen throughout the water column either by promoting mixing and destratifying the lake (circulation), or directly pumping oxygen into the water body (oxygenation). As discussed before, increased oxygen concentration is beneficial for the fish and the ecosystem of a lake, and may help protect shoreline structures, but there are other potential benefits related to lake sediments.

A common goal of artificial circulation or oxygenation aeration systems is increased dissolved oxygen near the lake sediment. Under anoxic conditions, phosphorus is more soluble and can be released from the sediment (process called internal loading). Subsequently, phosphorus from sediments can be released to the water column and used to create an algal bloom (Hudson and Kirschner 1997). Published studies have demonstrated that a properly designed aeration system can achieve high levels of internal loading reduction in the 80% range (Grochowska and Gawronska 2004) (Grund, et al. 2022). However, there are several examples where artificial circulation has not reduced phosphorus or the frequency of phytoplankton blooms (Federation of Vermont Lakes and Ponds 2024) and in some cases water quality was worse with aeration (Bassett Creek Watershed Management Commission n.d.) (Osgood and Stiegler, 1990). Hence, careful planning is needed for aeration to successfully reduce internal loading.

2.4 Does aeration reduce muck?

In recent years, aeration has been marketed as a method that could manage “muck” (organic material at the bottom of a lake). Peer-reviewed literature to date does not support that aeration can be used to manage muck in lakes (Vermont Department of Environmental Conservation 2019). While aeration can enhance oxygen levels and promote conditions that may accelerate organic matter decomposition, its primary effect is the redistribution of fine sediments rather than a measurable reduction in muck (Engstrom and Wright 2002). Therefore, its efficacy in directly managing muck remains unsupported by current scientific literature.

2.5 Does aeration capture phosphorus from the water column?

Aeration does not capture phosphorus from the water column, but instead limits the release of phosphorus from sediment that could be released to the water column (Hudson and Kirschner 1997).

2.6 Does aeration kill algae in the water column?

Aeration has the potential to mitigate algal growth by reducing phosphorus, the primary nutrient responsible for nuisance algal growth, in the lake by preventing sediment phosphorus release. We are not aware of any evidence in the scientific literature suggesting that aeration will directly impact algae or result in algal die-off.

2.7 What other considerations must be accounted for with aeration?

There are a few considerations with respect to aeration:

- Land requirements and access: each aeration system described in Section 3 requires space on adjacent land to house the system and shoreline access to the lake is needed. The land requirement for one aeration system is small (typically 20 square feet), but larger lakes may require more than one equipment site, or a larger system and building, depending upon the configuration and aeration technology.
- Power: each aeration system must be designed to have access to power. Power requirements will be different depending upon the system. The power will be in constant use during months of operation.
- Maintenance and operation: aeration systems are composed of pumps, generators, and other mechanical components. Maintenance will be required to ensure the system is functioning properly.
- Design and planning: aeration can be a useful lake management tool if it is appropriately sized and appropriate technology is implemented (and if pursued for the right reason). If an aeration

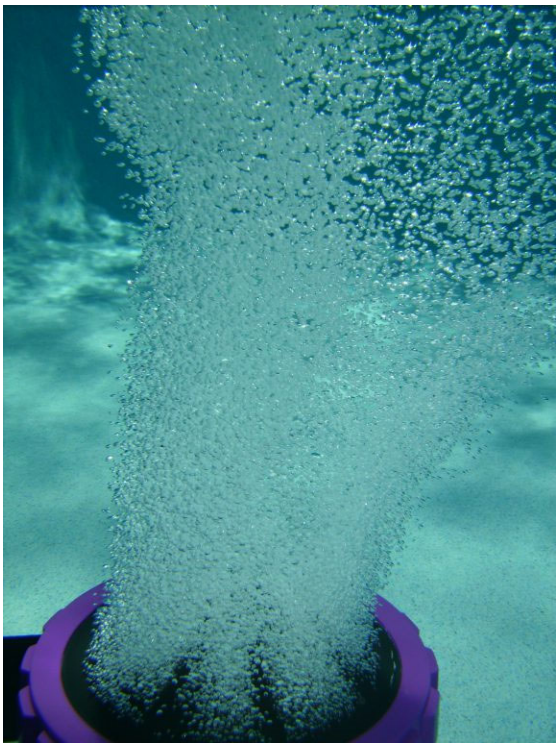
system is not designed properly, the system may result in no change to water quality or may even worsen water quality (Minnesota Department of Natural Resources n.d.).

- Sediment oxygen demand: if the sediment oxygen demand is too high, aeration may not be able to overcome the demand to impact anoxic release of phosphorus, thereby limiting the benefits to the lake's water quality.
- Sediment chemistry: the effectiveness of aeration can be impacted by various sediment chemistry properties such as the concentration of iron and high organic phosphorus. Therefore, it is important to understand the sediment chemistry and if additional treatment methods are required, such as the addition of iron to aerated sediments (Munch, et al. 2024).

3 Aeration Technologies

This section will discuss the methodology traditionally used to aerate lakes (forced air aeration) as well as newer technologies/methods including combining forced air aeration with iron amendments, direct oxygen injection/oxygen saturation, and nanobubbles.

3.1 Artificial Circulation (Forced Air Aeration)



Submerged Aerator (SOLitude Lake Management)

Artificial circulation is a methodology that has been commonly used in deep lakes to destratify a lake and transport low oxygen water from the lake bottom to the surface. Submerged forced air aeration systems work by placing diffusers (often disk-shaped equipment, consisting of membranes with holes) on the lake bottom. The diffusers are connected to compressors that push air out of the diffuser and into the water column. The objective of aeration is to mix oxygen in a lake and increase oxygen concentrations throughout the water column.

In recent years, RWMWD has been evaluating the benefit of using forced air aeration for internal loading control in shallow lakes. In 2021, a shallow lake aeration study began. The primary purpose of the study's aeration system installments were to improve the winter survival of fish that eat carp eggs, as a part of RWMWD's carp control strategy. Aerators were installed in Markham Pond, Bennett Lake, and Gervais Mill Pond. RWMWD was largely responsible for the design, siting, sizing, and contractor procurement of these aeration systems.

Preliminary results indicate that aerators can increase oxygen in shallow lakes and reduce internal loading. Because the systems in Markham Pond and Bennett Lake did not cover the entire lake or pond area, the internal load control benefit was limited, however. Oxygen demand in Gervais Mill Pond was extremely high and hence the aeration system could not supply enough oxygen to effectively oxygenate the sediments. In the case of Gervais Mill Pond, it was concluded that the forced air aeration system would need to be operated for a longer period for the pond's highly organic sediments to be sufficiently

oxygenated to prevent internal loading. Alternatively, a different kind of aeration system, such as direct oxygen aeration (see Section 3.3) could be used to super-saturate the water, making more oxygen available to the sediment.

3.2 Iron and Forced Air Aeration

Iron and forced air aeration is simply forced air aeration that accompanies an application of iron aggregate to lake sediments to augment sediment iron concentrations. Under oxic conditions, phosphorus binds with iron in lake sediments, thereby preventing release into the overlying water column (e.g., the iron-phosphate compound is insoluble). Aeration can promote higher oxygen levels in the water, and the addition of iron to lake bottom sediments ensures that adequate iron is available to bind to phosphorus. This approach is potentially beneficial when phosphorus in lake bottom sediments is predominantly in the organic-phosphorus form. Although forced air aeration has been used in RWMWD, forced air aeration in combination with an iron aggregate application has not.

Iron aggregate is a familiar material to RWMWD. Recently, RWMWD partnered with the City of Shoreview and the University of Minnesota to study water quality at the Shoreview Commons Stormwater Pond. In 2019, iron aggregate was placed on the frozen pond to settle into the pond with the spring ice melt (City of Shoreview n.d.). While this study does not involve the use of aeration, the use of iron aggregate is not new to RWMWD because of this project, as well as the use of this material in iron-enhanced sand filters for many RWMWD projects.

With respect to drawbacks, iron combined with forced air aeration will be more expensive than traditional aeration due to the additional materials and labor required for the iron application. It should be noted, however, that aeration will not be effective if there is inadequate iron in the sediment. Hence, when iron is deficient, the addition of iron is necessary to capture phosphorus and form an insoluble iron-phosphate complex under aerated conditions.

3.3 Direct Oxygen Injection/Oxygen Saturation (Oxygenation)

Direct oxygen injection, also called oxygen saturation technology, has been around since the early 1990s. (Moore, et al. 2015). This technology increases oxygen levels in a lake by directly adding pure oxygen gas to lake water. This contrasts with forced air aeration, which moves water to the lake surface to promote oxygen transfer with the atmosphere. There are several different types of direct oxygen injection systems. One system that has been used for shallow lakes includes an intake pipe near the bottom of a lake. The pump pulls water from the pipe and directs it through an oxygenation contact chamber. The oxygen contact chamber adds oxygen to the lake water and then the pump returns the oxygenated water to the discharge location (Figure 1). This is often referred to as side-stream oxygenation.

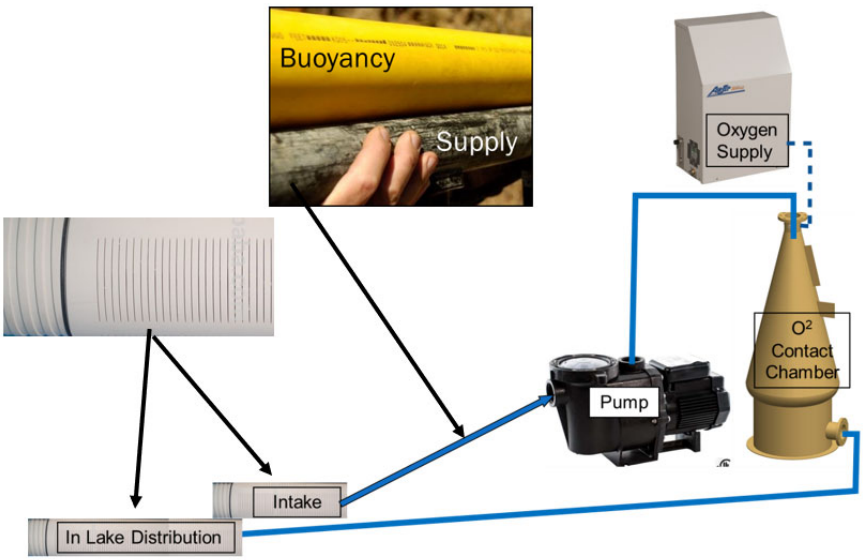


Figure 1: Direct Oxygen Injection Equipment Setup (courtesy of Gantzer Water)

The benefits of direct oxygen injection are similar to those of forced air aeration. A unique attribute of direct oxygen injection is that pure oxygen is used in this process and water can be supersaturated with oxygen. The supersaturated water can then move about and mix with the lake water column and increase oxygen throughout the lake. This system has the potential to minimally affect ice cover, which is an important consideration for lakes that are heavily used by residents in the winter. This system is less likely to destratify a lake-the lake bottom will remain cold, benefitting fisheries that prefer cooler water in the summer. Hence, this system may have additional ecological benefits compared to forced air aeration. Shallow lakes with a deep hole (e.g., approximately 10 feet) may be good candidates for this approach.

Although direct oxygen injection has benefits, there are potential drawbacks as well. The first drawback is it is a new technology that has not been used in RWMWD. It has, however, been used in Pleasant Lake just north of RWMWD. RWMWD staff would need to be trained regarding the specific operation and maintenance of a direct oxygen injection system. Another important drawback is that the land use requirement to house the system, roughly 60 square feet, is larger than forced air aeration, which can be contained in an enclosure rather than a building. Lastly, this system may not be suitable for shallow lakes with vegetation that could potentially clog a side-stream direct oxygen system, and the height of the new in-lake models that are being developed could lead to in-lake obstructions that would not be suitable for lakes with lots recreation in shallow areas. Hence, this type of system is likely best suited to a deeper lake or a shallow lake with a deep hole (e.g., like Wakefield Lake) to avoid operational issues.

3.4 Nanobubbles (Oxygenation)

The mechanism of nanobubble technology is similar to direct oxygen injection, which is to increase oxygen concentrations directly into the water column without relying on artificial circulation. Nanobubble technology introduces oxygen bubbles that are very, very small. Nanobubbles are 70-120 nanometers in size- significantly smaller than ordinary bubbles (Figure 2).

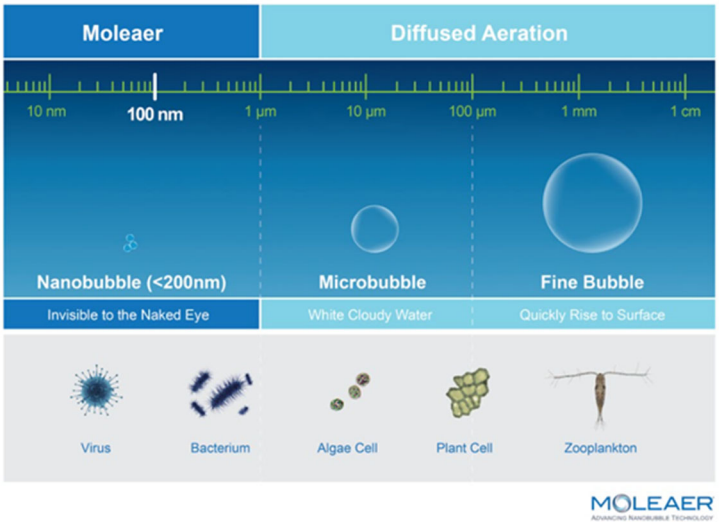


Figure 2: Nanobubbles Compared to Traditional Aeration Bubbles (Moleaer)

Because of their relatively small size, nanobubbles have properties that traditional bubbles from aerators do not. For example, nanobubbles are neutrally buoyant so they can remain suspended in liquid instead of rising to the surface. Moleaer, the company that produces nanobubble generators, claims third- party testing shows that nanobubbles have over 85% oxygen transfer efficiency per foot of water compared to bubbles created in more traditional aeration systems, which have closer to 3% oxygen transfer efficiency per foot of water.

This shore-mounted system includes an intake pipe, pump, generator to take atmospheric air to form the nanobubbles, and an outlet pipe to return air and nanobubbles.

Moleaer Clear Generator Installed on a Pond (Moleaer Nanobubble Tech)

Nanobubbles are a new technology that has not been used in RWMWD before. Training would be needed for the operation and maintenance of this system if implemented. Nanobubble generators also require space on land, about 20 square feet per system/generator. It is important to note that currently, the largest nanobubble system can only treat approximately 20-acre-feet of water, so multiple systems may be needed for a single water body, requiring more land in multiple locations around the water body. Additionally, there are a limited number of peer-reviewed studies reported in scientific literature to date, with most being laboratory-based. With the longest study being 127 days, there is a level of uncertainty on the long-term efficacy of nanobubbles, especially regarding ecological impacts (Waters, et al. 2022).

3.5 Summary of Aeration Technologies

All the aeration technologies presented in this memorandum aim to introduce additional oxygen levels to water bodies, addressing problems associated with anoxia (lack of oxygen). A general comparison of the technologies is presented in Table 1. The choice of which, if any, to pursue depends on the management goal for the water body, considering its bathymetry, fishery and macrophyte populations, sediment composition and chemistry, available shoreline space for equipment, nearby power sources, access constraints, maintenance capacity of staff, and project budget.

Table 1 Cost, Benefit, and Limitation Comparison of Aeration Alternatives

Method	Cost	Benefit	Limitation
Forced Air Aeration (Artificial Circulation)	$	Used in RWMWD. Increases oxygen concentrations which can reduce internal loading. Experimental evidence suggests method may be well suited for shallow lakes. Potential fisheries and ecological benefits with summer and winter operation (preventing winter fish kill).	More commonly applied in deep lakes. Land requirements (20+ square feet per lake to house the compressors). Operation and maintenance needs. Still considered experimental for shallow lakes, and multiple units may be required, depending on the size of the waterbody.
Iron Aeration	$$	Same benefits as Forced Air Aeration, plus: Increases iron content of sediment that can bind phosphorus under anoxic conditions.	Same limitations as Forced Air Aeration, plus: Iron application still considered experimental. If aeration is not effective, iron addition may not be effective in binding phosphorus.
Direct Oxygen Injection	$$	Increases oxygen levels which can reduce internal loading. Uses concentrated oxygen source. May be capable of greater increases in dissolved oxygen compared to forced air aeration.	New technology. Land requirements (60 square feet per installation). Operation and maintenance needs. Technology has been deemed to be effective in deep lakes but not as frequently applied in shallow lakes. Vegetation may interfere with intake.
Nanobubbles	$$-$$$	Increases oxygen levels which can reduce internal loading. More efficient than forced air aeration with respect to oxygen transfer per unit of oxygen delivered.	New technology. Land requirements depend on the number of systems required to aerate the waterbody-multiple units may be required, depending on the size of the waterbody. Operation and maintenance needs. Uncertainty pertaining to long term efficacy of ecological benefits.

4 Bibliography

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Project Work Plan

Date: January 28, 2025

Project: Phalen and Keller Lake Level Forecast Integration

Project Team:

District Staff: Eric Korte, Paige Ahlborg, Tina Carstens

Barr Staff: Brandon Barnes (Principal)
Greg Fransen (Project Manager)

Scope of Work

The Ramsey-Washington Metro Watershed District is responsible for operation and maintenance of the Keller Channel and Lake Phalen outlet control structures. The control structures can be raised or lowered using motorized actuators that allow District staff to control and monitor the outlet elevations remotely. District staff also monitor water elevation readings from Spoon Lake and 24-hour rain forecasts to inform when to adjust the outlet structures.

The Keller Channel weir and Lake Phalen outlet control system is programmable. The system was programed by In Control, Inc. and allows for operation of the outlets from a computer located in the District office or by an application installed on a mobile phone. The figure below shows the computer interface that is used to monitor water levels and gate elevations and to operate the gates.

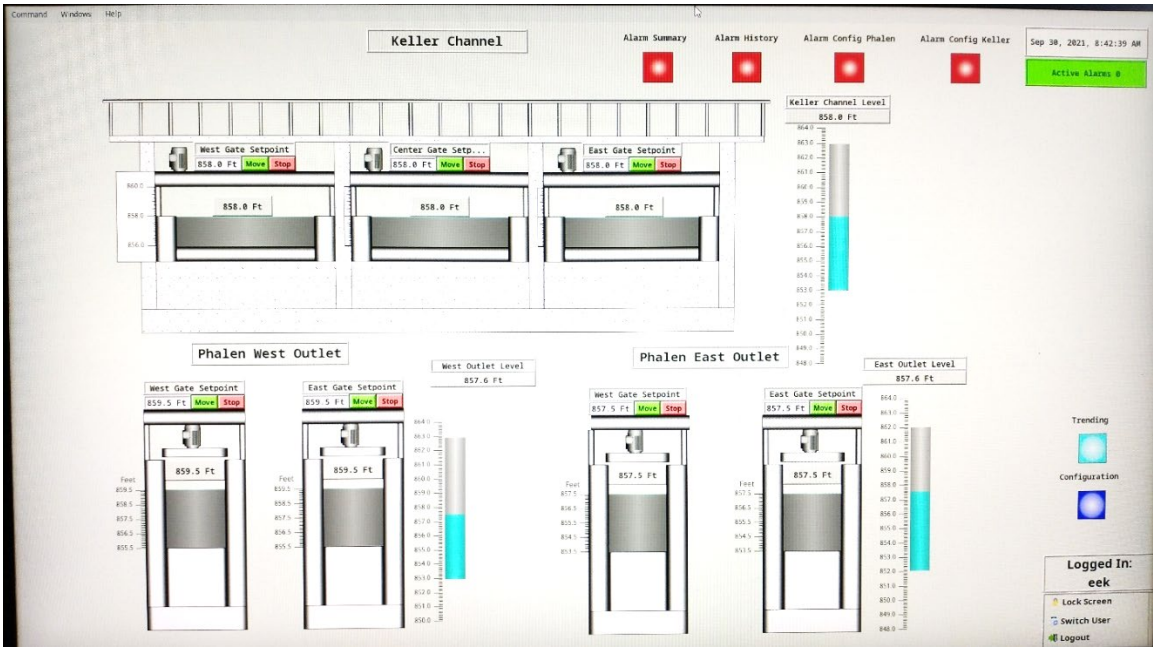

Figure 1 **Screenshot of the Control Structure Operation Interface**

This project includes developing a tool that analyzes rainfall forecasts and current lake level information and then recommends when the control structures should be operated. The goal is to develop a tool that can be used to automate the adjustment of the control structures on Keller Channel and Lake Phalen such that District staff do not have to manually monitor rainfall forecasts.

This project will also update automated notifications that District staff receive such that they better reflect the actions that are required.

Task 1 – Coordination with InControl and National Weather Service

Barr will contact the National Weather Service or websites that publish rolling rainfall forecast information. Barr will contact In Control to define requirements for file formatting that will allow for streamlined integration into the current controllers for the outlet structures at the Keller Channel and Lake Phalen.

Task 2 – Rainfall Forecast and Lake Level Integration

This task includes integrating lake level and rainfall information collected by RWMWD with rainfall forecast information in an Excel spreadsheet (or similar file) that updates automatically as new information becomes available. The tool will integrate available information and use logic from the approved Operation Plan for the Keller Channel and Lake Phalen control structures to determine the elevation settings of each gate. Barr will work with In Control so that this tool can be incorporated into the existing system.

Note that the time for In Control to reprogram the controllers is not included as part of this scope of work and will be determined after the tool has been developed.

Task 3 – Automated Notifications

This task involves updating the automated notifications that RWMWD receives when lake levels reach a given elevation. Barr will work with RWMWD staff to determine preferred notification language and threshold elevations, and then update notifications accordingly.

Budget

The cost to conduct the proposed scope of work is summarized in the table blow.

Task	Cost
Task 1: Coordination with In Control and National Weather Service	$10,000
Task 2: Rainfall Forecast and Lake Level Integration	$40,000
Task 3: Automated Notifications	$5,000
Total	$55,000

Schedule

The proposed project schedule is outlined below.

Task	Estimated Completion Month
Task 1: Coordination with In Control and National Weather Service	May 2025
Task 2: Rainfall Forecast and Lake Level Integration	July 2025
Task 3: Automated Notifications	August 2025

Project Tracking

Project Milestones

Milestones	Estimated Completion Month	Actual Completion Date
Task 1: Coordination with In Control and National Weather Service	May 2025	
Task 2: Rainfall Forecast and Lake Level Integration	July 2025	
Task 3: Automated Notifications	August 2025	

Monthly Updates

Month	Budget Spent $$ / %
February 2025	

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Administrator's Report

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MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: January Administrator's Report
DATE: January 28, 2025

A. Meetings Attended

Tuesday, January 7	9:30 AM	Audit Planning Meeting
	11:00 AM	BWSR Local Implementers Discussion
	1:00 PM	MW Events-Education Committee
Wednesday, January 8	8:30 AM	MAWA Executive Committee
	6:30 PM	Board Meeting
Friday, January 10	3:00 PM	Meet with Manager Eisele
Tuesday, January 21	9:00 AM	Pubic Works Forum
	12:00 PM	Lower Phalen Creek Project Update
Wednesday, January 22	11:00 AM	Meet with Capitol Region WD
Friday, January 24	1:00 PM	SDI Meeting re: DEIA Planning
Monday, January 27	9:00 AM	MW Board Meeting

B. Upcoming Meetings and Dates

CAC Meeting	February 11, 2025
MW Legislative Event	February 19, 2025
March Board Meeting	March 5, 2025
April Board Meeting	April 2, 2025
CAC Meeting	April 22, 2025
Metro Watershed In-Person Meeting	April 22, 2025
May Board Meeting	May 7, 2025
WaterFest	May 31, 2025
June Board Meeting	June 4, 2025
CAC Meeting	June 10, 2025
MW Summer Tour – Roseau River WD	June 24-26, 2025

C. Staff Anniversaries

There are no staff anniversaries in the month of February.

D. Board Action Log and Updates

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

E. **District DEIA Planning Process**

For many years, district staff have been working through a diversity, equity, inclusion, and accessibility (DEIA) process. Mary Fitzgerald has been leading our internal DEIA efforts and put together this timeline of activity for your information. I've invited Kaitlin Desselle from Strategic Diversity Initiatives to join the board meeting to discuss the next phase of our DEIA planning.

RWMWD DEIA Initiatives Timeline

Ramsey-Washington Metro Watershed District has begun various programming, initiatives, collaborations and trainings in an effort to meet our goals and value statement.

Targeted Retrofit Program (2013)

This program offers technical assistance and grant funds to select commercial, school, and faith- based properties in priority drainage areas or in underserved parts of RWMWD by developing partnerships to retrofit stormwater infrastructure to improve water quality.

Amazeworks IDI assessment (June 2021)

The Intercultural Development Inventory (IDI) assesses intercultural competence – the capability to shift cultural perspective and appropriately adapt behavior to cultural difference and commonalities.

DEIA Workgroup (formed November 2023)

The DEIA Workgroup is an internal group of staff that meet monthly to discuss various DEIA-related topics and delegate action items related to our DEIA-initiatives.

Watershed Equity Alliance participation, presentations (Joined January 2023)

The Watershed Equity Alliance was created to share experiences, better understand, and advocate for the incorporation of equity in watershed management. This alliance has participation from 15+ organizations in watershed management.

MN Water Workforce Pilot Program participation, presentations (Joined March 2023)

The pilot program connects across public and private sectors to increase visibility and access to abundant, stable, well-paying jobs in the water industry.

Website audit (January 2024)

We received a manual accessibility audit for our website from WeCo. WeCo explains this audit "helps you understand how accessible your website/software/mobile application is to people who have cognitive, hearing, mobility, and visual disabilities. We pinpoint where your online properties need to improve to be accessible to people living with disabilities and compliant with ADA and WCAG criteria."

Building audit (August 2024)

rlkACCESS, LLC is a Minnesota woman/disability-owned business specializing in creating, improving, and ensuring disability access that works. rlkACCESS conducted a manual building audit of the Ramsey-Washington Metro Watershed District office to ensure access compliance with the Americans with Disabilities Act (ADA), 2010 ADA Standards and Minnesota State Accessibility Code.

WCD Equity Workshop with Center for Policy, Planning and Performance (February 2023)

Staff attended an equity workshop with the Washington Conservation District to learn about drafting equity goals, value statements, and how to create measurable tasks. This workshop allowed Ramsey-Washington Metro Watershed District and Washington Conservation District to create new relationships and identify opportunities for collaboration.

WaterFest Community Partners Engagement (January 2024)

Held a listening session with community groups and past WaterFest participants to learn how the event could be enhanced to reflect the communities wants and needs.

Science Museum of Minnesota GEOPAths Grant Programming (Joined August 2023)

Staff members participated in a National Science Foundation grant-funded project through The Science Museum of Minnesota, titled: GEOPAths. This project's goal is to develop strategies to inclusively introduce youth to geoscience research, networks and career paths through the STEM Justice model. Staff participating in this programming completed STEM Justice training.

Tribal State Relations Training Attendance (January 2024)

The Tribal State Relations Training program was created to provide training and education for Minnesota state employees about American Indian tribal governments, histories, cultures and traditions, in order to empower state employees to work effectively with

American Indians and promote authentic and respectful relationships between state agencies and American Indian tribes.

Strategic Diversity Initiatives – Strategic DEIA Plan Drafting (2025)

In 2023 RWMWD hired Strategic Diversity Initiatives (SDI) to conduct all-staff trainings and a comprehensive audit of our policies and procedures with a DEIA-focused lens. This initiative has allowed us to identify opportunities for improvement and create an actionable plan to help foster our dedication to inclusivity for staff and the communities served.

F. **Minnesota Watersheds Legislative Event**

As discussed last month, I have gathered some Minnesota Watersheds information regarding the upcoming legislative event on February 19-20. At the board meeting, we can discuss the approach to contacting our local representatives and the role of the board, staff, and CAC. Attached are the following documents:

1. Minnesota Watersheds Legislative Event Agenda for February 19 and 20.
2. Minnesota Watersheds 2025 Top Talking Points and Watersheds of Minnesota maps.
3. A list of local senators and representatives was compiled using the following link: https://www.gis.lcc.mn.gov/iMaps/districts/

MINNESOTA WATERSHEDS
Connecting People. Protecting Water.

2024 Legislative Briefing and Day at the Capitol
Radisson Hotel - Capitol Ridge
161 St. Anthony Avenue, St. Paul | February 19-20, 2025

Agenda – Wednesday, February 19, 2025

Welcome to the Minnesota Watersheds 2025 Legislative Briefing. The following schedule is approximate. Speakers and times may change as needed to accommodate the ever-changing schedules of lobbyists and directors.

3:00 – 4:00 Minnesota Watersheds Legislative Priorities

3:00 Welcome and Announcements – Jan Voit, Minnesota Watersheds Executive Director
3:05 Capitol Activity Update – Kevin Matzek, Minnesota Watersheds Lobbyist
3:20 The Legislative Process and Strategies for Working with the Legislature and State Agencies on Minnesota Watersheds Legislative Priorities

Top Two Priorities

- Develop legislation to implement a 60-day permit review period for DNR and MPCA
- Develop regulatory approaches to reduce chloride contamination

Endeavors to Support

- Support Clean Water Land and Legacy Funding
- Support legislation to clarify DNR and drainage authorities' roles and responsibilities in public drainage maintenance and repairs
- Support 2025 bonding requests and stable funding for multipurpose flood mitigation and water storage projects
- Support streamlining the Flood Hazard Mitigation Program
- Q & A

4:00 – 4:55 Agency Updates*

4:00 Dana Vanderbosch, Minnesota Pollution Control Agency
4:15 Sarah Strommen, Department of Natural Resources
4:30 John Jaschke, Board of Water and Soil Resources
4:45 Q & A

4:55 Closing Remarks/End of Briefing

4:55 Jan Voit, Executive Director

5:00 – 7:00 Legislative Reception: Minnesota Watersheds Members and Legislators

Invitations to this reception and networking event were sent to all legislators. However, individual invitations from members help provide additional encouragement for them to attend.

Take advantage of this opportunity to network with other members and chat with legislators as they arrive. **Please also use this time for informal regional caucus discussion.** There will be a cash bar. Light food options will be served for you to enjoy.

Agenda – Thursday, February 20, 2025

7:00 am – 8:00 am Networking Event: Minnesota Watersheds Members

Take advantage of this opportunity to have a buffet breakfast with Minnesota Watersheds members at the Capitol Ridge Hotel and discuss our legislative priorities.

8:30 am – 4:00 pm Meet with Legislators

Please use this occasion to visit with legislators in their offices or at the Capitol.

*Speakers and topics may change as schedules evolve.

MINNESOTA WATERSHEDS

Connecting People. Protecting Water.

2025 TALKING POINTS – TOP TWO LEGISLATIVE PRIORITIES

DEVELOP LEGISLATION TO IMPLEMENT A 60-DAY PERMIT REVIEW PERIOD FOR THE DEPARTMENT OF NATURAL RESOURCES AND MINNESOTA POLLUTION CONTROL AGENCY

- As political subdivisions of the State of Minnesota, watershed organizations are required to have a state-approved Watershed Management Plans (WMP). The plans are reviewed by the Department of Natural Resources (DNR), Minnesota Pollution Control Agency (MPCA), and other state agencies. Comments from state agencies on the plans are addressed in the WMP approval process.
- Projects identified in WMPs are eligible for grant funds and bonding dollars.
- Many watershed organizations have permitting authority with a statutory responsibility to issue permits to landowners, contractors, and developers. Those permits must be issued within a 60-day timeframe.
- Minnesota Statute § 15.992 requires that state agencies have a 60-day deadline to take final action on a written permit request, except the statute excludes an application requiring one or more hearings on an Environmental Impact Statement or Environmental Assessment Worksheet.
- Watershed organizations are experiencing considerable delays in the permit approval process, well in excess of the 60-day statutory requirement, which creates cost overruns, project delays, wasting taxpayer funds, and in some cases loss of state and federal grant funds.
- Watershed organizations are concerned about the unpredictability of, lack of transparency in, and inconsistency of not just the DNR permitting process, but also that of the MPCA.
- Minnesota Watersheds supports a framework, not just in the isolated case of Minnesota Statute § 15.99, but that requires all state agencies to conduct permit reviews in a predictable, transparent, and consistent manner.

DEVELOP REGULATORY APPROACHES TO REDUCE CHLORIDE CONTAMINATION

- There is no easy way to remove chloride from our lakes, rivers, and wetlands once it gets there. Prevention is our best and really our only option for limiting the negative impacts of excess chloride in our waters.
- For several years, Minnesota Watersheds and others have pursued an incentive-based approach to reducing chloride us by supporting legislation that would provide a liability limitation for those who are certified by the MPCA as applicators trained to apply the correct amount of salt to achieve safe surface conditions and who document their practice of protective low-salt maintenance techniques.
- During the 2024 session, Minnesota Watersheds worked with several metro-area watersheds to secure the endorsement of the Minnesota Center for Environmental Advocacy, Freshwater Society, Minnesota Association for Justice (which represents trial lawyers) and Stop Over Salting on a legislative approach that provided owners and applicators with protection to the extent of negligence.
- The Minnesota Nursery and Landscape Association, which represents property-maintenance providers, would not join the coalition, arguing for a bill that provided more extensive liability protection, less frequent training and certification, and looser trainer controls.
- The trial lawyers' lobbyist has indicated they would strongly oppose the more extensive liability protection; in addition, allowing for protection when a provider is in fact negligent is contrary to sound public policy.
- Minnesota Watersheds supports working with the state, counties, cities, and watershed organizations to develop a regulatory approach to reducing chloride contamination.

DRAFT

OTHER 2025 LEGISLATIVE EFFORTS TO SUPPORT

SUPPORT CLEAN WATER LAND AND LEGACY FUNDING

- Minnesota Watersheds supports water quality improvement and natural resources protection projects recommended by the Clean Water Council, Lessard Sams Outdoor Heritage Council, and the Environment and Natural Resources Trust Fund.

SUPPORT THE DRAINAGE WORK GROUP

- Minnesota Watersheds supports the Drainage Work Group consensus process to work cooperatively with drainage stakeholders and state agencies to address state policy issues related to M.S. Chapter 103E drainage.

SUPPORT LEGISLATION TO CLARIFY DNR AND DRAINAGE AUTHORITIES' ROLES AND RESPONSIBILITIES IN PUBLIC DRAINAGE MAINTENANCE AND REPAIRS

- The public waters inventory was never intended to restrict the right to maintain existing drainage systems. The legislature specifically exempted repairs from DNR permitting, gave the DNR a mechanism to ensure proposed work was repair; and directed the DNR to provide for the lawful function of public drainage systems that affected public waters.
- The DNR adopted a rule exempting repairs from permitting and announced a policy in 1980 that stated repair of public drainage systems should be allowed without permits.
- More recent DNR practices have departed from the 1980 policy and clear language in both statute and rule.
- The DNR issued a new guidance document in February of 2018 that was intended to provide clarity for both DNR staff and drainage authorities on the role of the DNR regarding public drainage activities. The guidance has had the opposite effect.
- There is a lack of clarity and consistency in DNR's role on public drainage system repairs across the state.
- Clarifying legislation is needed to reinforce existing law regarding the DNR and the drainage authorities' roles and responsibilities when maintaining public drainage systems and reduce the unnecessary expenditure of dollars by the drainage authority and DNR.

SUPPORT 2025 BONDING REQUESTS AND STABLE FUNDING FOR MULTIPURPOSE FLOOD MITIGATION AND WATER STORAGE PROJECTS

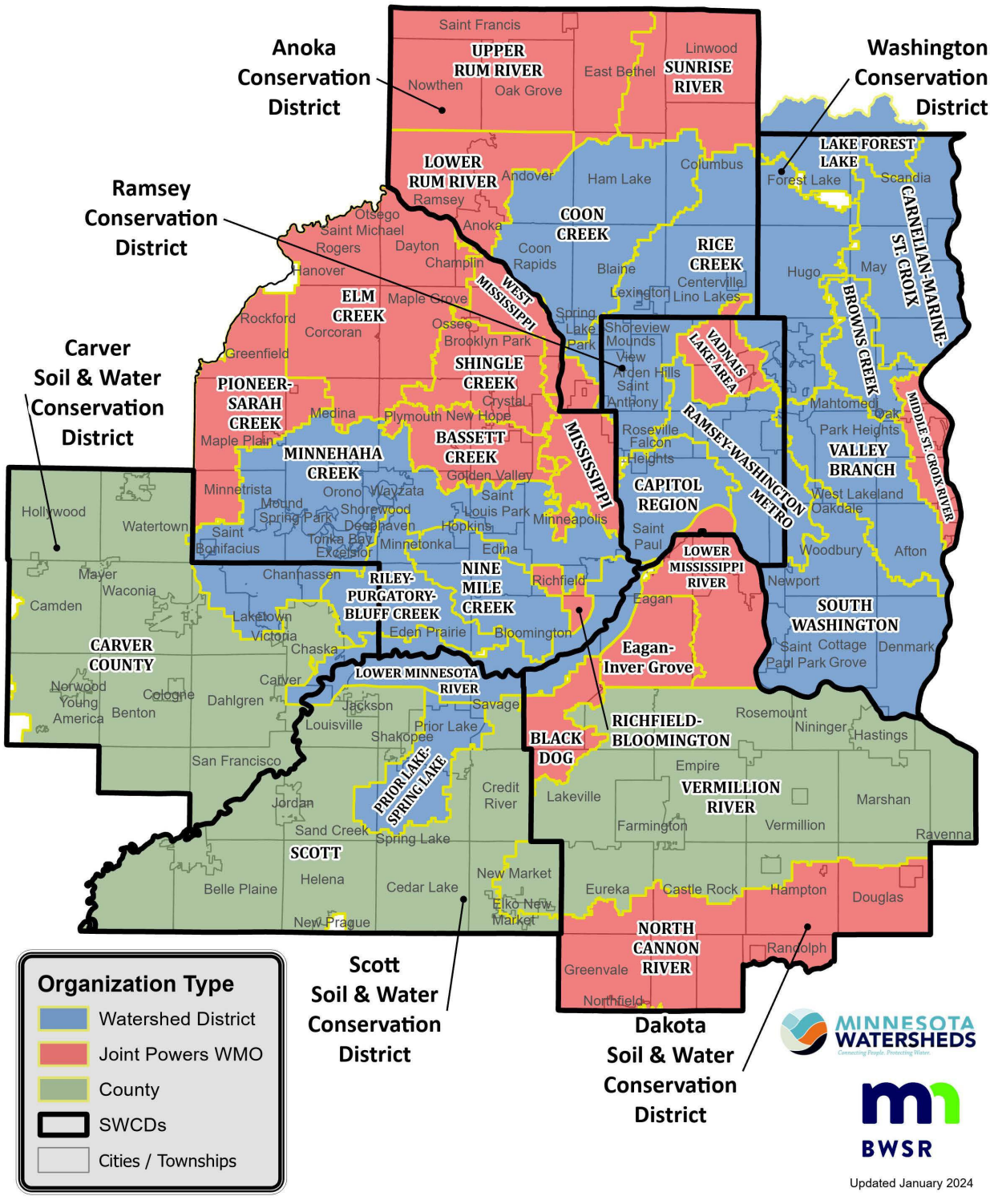
- Inconsistent and inadequate Flood Hazard Mitigation Program (FHMP) funding affects timing and coordination of local, state, and federal funds to construct multipurpose flood mitigation and water storage projects, as well as placing increased pressure on local government to fund projects through local taxes.
- Flooding and climate-related impacts are not going away. Magnitude, frequency, and intensity of rainfall events are increasing. Continued deferred FHMP funding reduces local government's ability to meet climate resiliency goals and reduce downstream impacts.
- Frequent flooding greatly diminishes and severely erodes equity, financial resources, and capital acquired over decades by farmers and landowners in rural areas. Consistent and adequate FHMP funding is needed for the future of Minnesota to remain strong.

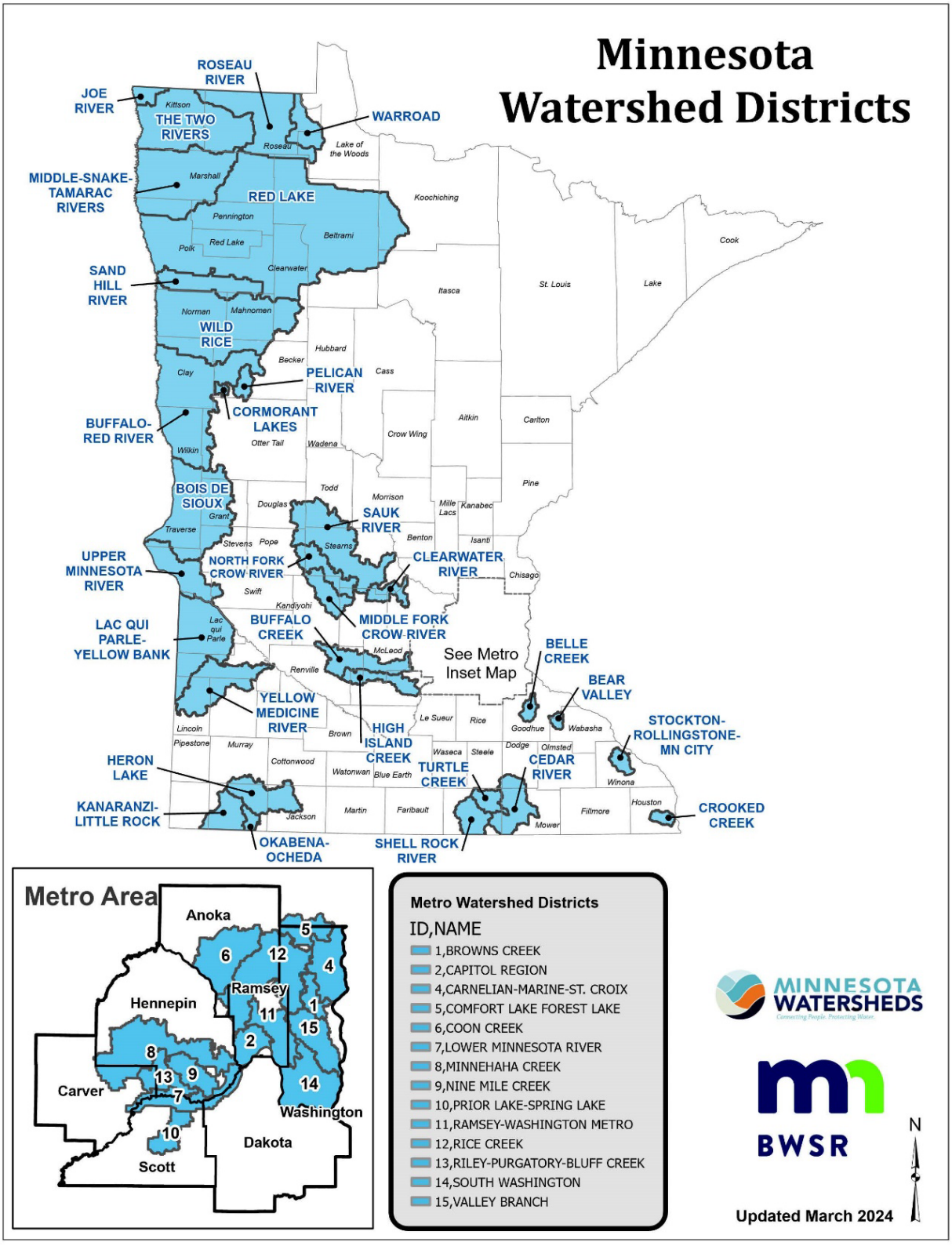
SUPPORT STREAMLINING THE FLOOD HAZARD MITIGATION PROGRAM

- The FHMP is a primary funding source for multipurpose flood mitigation and water storage projects statewide.
- The FHMP needs to be modernized and applications should be scored, ranked, and prioritized adequately by the DNR. Applicants do not have knowledge of the scoring, ranking, and prioritization process.
- Minnesota Watersheds supports action requiring the DNR to establish transparent scoring, ranking, and funding criteria for the FHMP and asks the Minnesota Legislature to fully fund the state's share of eligible projects that are on the DNR's project list within each two-year bonding cycling.

Please use these talking points to guide your conversations with legislators, not as a handout!

Metro Water Management Authorities





Watershed Management Organizations Maps

State Legislative Representatives:

President Eisele: House - Peter Fischer

Senate – Tou Xiong

Manager Kramer: House – Vacant

Senate – John Marty

Manager Karp: House – Athena Hollins

Senate – Clare Oumou Verbeten

Manager Wang: House – Amy Hemmingsen-Jaeger

Senate – Nicole Mitchell

Manager Gernes: House – Peter Fischer

Senate – Tou Vang

2025 RWMWD Legislative Districts and Representatives

House:

36B: Brion Curran

40A: Kelly Moller

40B: Vacant

44A: Peter Fischer

44B: Leon Lillie

47A: Amanda Hemmingsen-Jaeger

47B: Ethan Cha

66A: Leigh Finke

66B: Athena Hollins

67A: Liz Lee

67B: Jay Xiong

Senate:

36: Heather Gustafson

40: John Marty

44: Tou Xiong

47: Nicole Mitchell

66: Clare Oumou Verbeten

67: Foung Hawj

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Project and Program Status Reports

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RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

BARR

Memorandum

To: Board of managers and staff
From: Tina Carstens, Brad Lindaman, Erin Anderson Wenz, and Brandon Barnes
Subject: Project and program status report: February 2025
Date: January 29, 2025

Note: The location, brief description, and current status of each project described below can be found on the *2024 Ramsey-Washington Metro Watershed District (RWMWD) engineering services story map*. An *updated version for 2025 will be available in March.*

Project feasibility studies

A. Manufactured homes resilience evaluation (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to complete an inventory of manufactured home developments within the RWMWD, identify potential project opportunities to increase resilience to regional flooding, reduce localized flood risk, improve water quality, and connect with developments to provide information on opportunities to improve stormwater conveyance and/or water quality within each development.

During this period, Barr evaluated Metropolitan Council data sources for manufactured home developments.

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

The purpose of this study is to support the 2025 enhanced street-sweeping grant program.

Barr completed a report summarizing the 2024 enhanced street-sweeping program and provided it to the RWMWD on January 24, 2024, to review. The report may be discussed at the February board meeting. No formal presentation is planned. In 2025, Barr will continue to support the RWMWD with implementation of the enhanced street-sweeping grant program, including municipal coordination, identification of priorities, and technical analysis.

C. Flood risk reduction feasibility study: Roseville Central Park (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to identify strategies or combinations of strategies and system modifications that would remove habitable structures near Central Park in Roseville from the 100-year floodplain.

During this period, Barr organized existing datasets (GIS data, flood risk data, etc.) for the project. Next, Barr will begin a screening level identification of potential system modifications to reduce

flood levels in the project area. The evaluation will include identification of outlet control structures, overflow elevations, public parcels where more water could be stored during a flood event, and low habitable structures near Central Park and adjacent to other public parcels where flood levels may change because of modifications to the system. Barr will review the potential modifications with RWMWD staff and City of Roseville staff before detailed modeling or concept design begins.

Watershed management plan update

D. Watershed management plan update: phase 1- stakeholder engagement (Barr project manager: Greg Williams; RWMWD project manager: Tina Carstens)

The purpose of this project is to help the RWMWD collect and interpret partner input as the district updates its watershed management plan.

During this period, Barr coordinated with the RWMWD on the planned sequence of partner engagement actions, including aligning the January 21 public works forum with plan notification requirements and updating the plan notification letters to reflect the revised process. Staff and board workshops are planned for February.

Research projects

E. New-technology mini case studies (average of six per year) (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to educate the board and RWMWD staff on new and interesting technologies and design strategies related to water quality improvements and other issues of concern. The information provided is often based on the manufacturer's claims and has not been modeled or tested by the RWMWD or Barr unless explicitly stated.

This month, Barr summarized aeration as an overarching topic to help clarify technologies that are considered part of this lake management strategy, including nanobubbles. A summary memo is included in this month's packet for the managers' review.

F. Wakefield Lake aeration feasibility study (Barr project manager: Tyler Olsen; RWMWD project managers: Paul Erdmann and Eric Korte)

The purpose of this project is to evaluate the effectiveness of increasing dissolved oxygen concentrations in Wakefield Lake via aeration methods to control internal phosphorus loading.

Barr began drafting a memorandum for the new-technology mini case studies that summarizes a variety of aeration methods for shallow lakes. This evaluation aligns with the first task of the Wakefield Lake aeration feasibility study, which is to complete an alternatives analysis of aeration and internal phosphorus control technologies. The results of the case study memorandum will be used to identify areas for further investigation.

Project operations

G. 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 web pages continue. A few station-specific updates are included below.

Lake level graphs

Barr finished updating the lake level graphs on the district's website with annotations to show the "ice condition" status for each station.

Tanners Lake station

The HSA bubbler system has been replaced with a Campbell Scientific radar sensor. During the first few years, the bubbler system experienced repeated issues, mainly due to the long run of the river line (i.e., the airline) into the lake and heavy vegetation around the sensor. The RWMWD and Barr determined that installing a radar sensor 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.

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

The district is considering options for displaying the data on its website for the rain gages installed last year.

Capital improvements

H. 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.

Roosevelt Homes is a flood-prone multifamily housing area owned by the Saint Paul Public Housing Authority. During the first part of this one- to two-year phased retrofit, two stormwater basins were constructed in late 2023. The vegetation components were planted in 2024. The project was awarded an MPCA Implementation Grant for Stormwater Resilience, which will offset most of the RWMWD funding for the third phase.

The City of Saint Paul provided preliminary acceptance of the design, and Barr is finalizing phase 3 construction documents. We intend to present the project to the board in March for approval to seek bids.

I. Targeted retrofit projects 2025 (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 obtained approval of preliminary stormwater BMPs and areas of work from property owners for Cochran Recovery Services and Maplewood Toyota. We are currently developing construction documents, which we anticipate presenting to the board in March for approval to seek bids. Cochran Recovery Services' project will provide an opportunity to improve flood-prone areas of the site while converting turf to native plantings. Maplewood Toyota, with Saint Paul Youth Services (SPYS), is currently seeking bids from roofing contractors to determine costs for its green roof project and a potential cost share with the district.

J. 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 the development of the stewardship grant program.

During this period, Barr met with Rehder & Associates to discuss potential stormwater treatment at Battle Creek Waterworks Park. Ramsey County is considering an application for a stewardship grant for the project.

K. 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.

This period, the RWMWD received both purchase agreements from the first two property owners along the creek. A certified letter was sent to the third property owner (who has not responded to outreach efforts), stating that work will commence on their property within the existing drainage easement. Barr and the RWMWD have drafted a construction access agreement for work on the Bailey Nurseries property, and the district's legal counsel has reviewed the agreement. Once finalized, the agreement will be sent to Bailey Nurseries for signature. In early 2025, Barr and the RWMWD will outline a proposed schedule for bidding and construction. We will update the board of managers when a schedule has been set.

L. Cottage Place wetland regeneration (Barr project manager: Brendan Dougherty; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design and restore a degraded wetland on the City of Shoreview property near the Cottage Place cul-de-sac. The project will involve plans development, bidding, and construction administration to provide additional stormwater treatment and restore wildlife habitat in the area. This month, Barr continued coordinating construction and tree stump and root removals with Dimke Excavating (see photo below). The contractor installed erosion control measures in anticipation of stormwater structure installation and initial grading activities in February or March. Major earthwork activities are dependent on frost depths and will likely happen in late winter.

M. County Road C culvert replacement (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.

During this period, Barr continued coordinating the final payment application with Bituminous Roadways, who is requesting additional information from its subcontractors to approach the application. We anticipate submitting this application for the March board meeting, after which the RWMWD will request reimbursement from Ramsey County.

N. Kohlman Creek storage and detention (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

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

During this period, Barr contracted with the drilling company to collect soil borings. Drilling occurred at both project sites during the second week of January. Barr will review and analyze the collected

geotechnical data to inform any required soil corrections or design recommendations for the two projects. Additionally, we continued developing the designs and plan sets for project partners to review in early 2025. Tentatively, we will solicit bids in the winter and construct in summer 2025.

O. Kohlman Lake alum treatment (Barr project manager: Tyler Olsen; RWMWD project manager: Paul Erdmann/Eric Korte)

The purpose of this project is to collect the required information and design an alum treatment for Kohlman Lake in Maplewood.

During this period, Barr evaluated the data collected for Kohlman Lake, including the sediment data Barr collected and the macrophyte data Ramsey County collected in 2024. Included in this month's board packet is a memorandum summarizing the data analysis completed to date, including information related alum treatment timing and required aquatic invasive species (curly-leaf pondweed) management.

P. Lake Wabasso outlet replacement (Barr project manager: Brandon Barnes; RWMWD project manager: Dave Vlasin)

The purpose of this project is to design a new outlet for Lake Wabasso. The existing outlet was constructed in 1971 and has reached the end of its design life. Ramsey County determined that the outlet has been leaking beneath the weir wall for several years and that rebuilding the structure is necessary to prevent further seepage. The county requested RWMWD support for a design that both prevents seepage and avoids adverse impacts to floodplain elevations.

The Lake Wabasso outlet structure, constructed in 1971, is located on the north end of the lake between 3558 Tiffany Lane and 3515 Ernal Drive in Shoreview. Ramsey County conducts routine maintenance for the lake outlet. The existing structure is a grated steel footbridge supported by wingwalls that are part of the weir structure directing flow through the outlet channel. The wingwalls show signs of cracking, and the base slab in the channel is also deteriorating. The proposed improvements include a new footbridge and weir and sheet pile cutoff to reduce seepage.

This month, Barr developed geotechnical design of the foundation and structural design of the new outlet structure. This spring, we will prepare plans for removal of the existing outlet and replacement with a new outlet structure. Construction is anticipated for fall 2025. Ramsey County will reimburse the district for the construction costs associated with this work.

Capital improvement plan (CIP) project repair and maintenance

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

The purpose of this study is to address unplanned and routine maintenance of the RWMWD's existing capital improvement projects that are not included in the annual CIP maintenance and repairs project.

In December, the investigative soil sampling and testing activity associated with the pond cleanout requests from other governmental organizations wrapped up. Also included under this project is

ongoing evaluation of other sites that may need attention in upcoming CIP maintenance and repair projects.

R. 2025 CIP maintenance and repairs (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.

During this period, the contractor completed site 7 in North Saint Paul and began work on several other sites. The contractor did not submit information required to process the first payment application or change order 1. We anticipate including both items next month. We are waiting for a quote from the contractor regarding change order 1, which involves adding two new structures to site 13 in Woodbury. These new structures will address erosion and bring emergency overflows in line with Woodbury standard plates. The City of Woodbury requested these structures and will reimburse the RWMWD, assuming that the change order is accepted.

S. Beltline and Battle Creek storm sewer five-year inspection and Beltline detailed survey (Barr project managers: Tyler Fincher and Nathan Campeau; RWMWD project manager: Dave Vlasin)

The purpose of this project is to complete the five-year inspections of the Beltline storm sewer interceptor and Battle Creek storm sewer, as well as a detailed survey of the Beltline storm sewer interceptor.

The RWMWD inspects the entire length of the Beltline and Battle Creek storm sewers every five years using the National Association of Sewer Service Companies' (NASSCO) Pipeline Assessment Certification Program (PACP) standards. The NASSCO PACP rating system is the industry standard for identifying pipe deficiencies and rating the overall quality of pipes and storm sewer systems.

In early 2025, the RWMWD and Barr will perform a detailed inspection along the entire Beltline and Battle Creek storm sewers. Barr will also conduct a detailed survey of the entire Beltline system to determine the location and elevation of the tunnel to form the baseline for future rehabilitation projects, inform other storm sewer infrastructure projects that need to connect to the Beltline, and avoid conflict with other infrastructure projects (e.g., roadway improvements).

During this period, Barr completed planning for and began performing detailed inspections and survey of the Beltline system. The inspections are on track; weather permitting, the inspections and survey will conclude in March.

T. 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.

During this period, Barr helped the RWMWD review submittals, coordinated additional site investigations with the contractor (Minger), and facilitated meetings with the Saint Paul Port Authority and its contractor (AMI). We coordinated with and reviewed design drawings to protect and design repairs to Port Authority infrastructure that had deteriorated from the Port Authority's contractor (as a subconsultant to Barr). Change Order Number 2 is included and provides details on

this additional work. Minger has initiated most of the required excavation, shoring, water bypass, and dewatering for the project. Construction and repair are scheduled to continue through March 2025.

U. Natural resources update: Paul Erdmann

Aeration Systems Up and Running In January, we put up thin ice signs on Markham and Gervais Mill Pond and turned on the aeration systems in the ponds. These two shallow water bodies are susceptible to winterkills. The aeration systems add oxygen to the ponds, creating better conditions for fish. Native fish, such as bluegill sunfish, are important players in our Carp Management Program, as they eat many carp eggs. Aeration of shallow lakes and ponds improves dissolved oxygen throughout the water column and can also reduce internal Phosphorous loading and chlorophyll a to the benefit of water quality.

Telling Our Story Paul gave two presentations in January. The first was for the Minnesota Implementers Group of The Confluence for Watershed Leaders about our Keller Lake shoreline restoration project that also provided an overview of our Natural Resources Program. The Confluence for Watershed Leaders is a collaborative community for people who work to achieve healthy watersheds and thriving communities in the Great Lakes, Mississippi River, and Red River Basins of the U.S. Midwest and Mid-South. This presentation was recorded and can be viewed here. Paul also presented about our Natural Resource Program, past and current projects, and potential partnerships opportunities at our District Public Works forum which was attended by staff of our City and County partners. It was good for the relatively new Natural Resources Team to introduce ourselves to these partners as we think about future projects and make connections.

A skid steer operator places woody biomass into a biochar kiln as staff look on. The biochar end product is in the foreground.

NR staff attended a **biochar demonstration** that was put on by our partners at Ramsey County and Great River Greening at Battle Creek Regional Park. Biochar is produced by heating organic material, such as wood and plant waste, in a high temperature but low-oxygen environment. The burning is stopped before the materials turn to ash. The end product is a lightweight black charcoal made up of carbon. Biochar can mitigate climate change by storing carbon instead of releasing it into the air. It is also being used to improve soil health and to treat and clean water. Restoration practitioners are utilizing this recently rediscovered practice to manage the large amounts of biomass that are produced in buckthorn and invasive brush removal efforts in a more sustainable way. Our team will continue to research these practices to see if it can be utilized in our management in the future.

We attended the annual meeting of the **Minnesota Prescribed Fire Council**. The meeting was hosted by the Shakopee Mdewakanton Sioux Community (SMSC). Morning sessions focused on prescribed fires, potential training and certification, and cultural burning. In the afternoon, attendees learned about SMSC's prairie restoration and land management efforts and received a tour of Hoċokata Ṫi, SMSC's cultural center.

Round-headed bush clover rises above the Hoċokata Ṫi cultural center in Shakopee

We also attended the quarterly **Ramsey County Cooperative Weed Management Area** (CWMA) meeting. The CWMA brings conservation partners together to manage invasive species in a collaborative effort, as weeds know no boundaries. The CWMA focuses on Early Detection Rapid Response species- these are species that are not well established yet, so finding them and managing them before they become widespread is the goal. RWMWD is a strong partner in this effort. The CWMA is near and dear to Paul, as he started the CWMA as a Ramsey Conservation District employee in 2008.

NR staff continues **other winter work**, including woody vegetation management, seasonal intern hiring, prescribed burn planning, continuing education, webpage updates and more.

V. Communications and engagement program: Lauren Hazenson and Carrie Magnuson

Education Highlights

Youth Education Program

Watershed Introduction in the Classrooms & Seed Stratifying Lessons

Lionsgate Academy

On January 7 and 8, 2025, five classes of 9th to 11th-grade students (approximately 35 students) at Lionsgate Academy participated in a seed stratifying lesson. Volunteers, including two Ramsey County Master Gardeners (RCMG), Susie DeShon, and Michele Johnson, worked alongside the students to share their knowledge about native plants. The students identified, cleaned, and prepared seeds from 14 native species. This hands-on activity fostered an understanding of native plants and their importance to the local ecosystem.

Mounds Park Academy

On January 9, 2025, two Honors Biology classes of 38 10th-grade Mounds Park Academy participated in our watershed introduction lesson. The lesson covered the fundamentals of watersheds, water flow using maps, common water pollutants, and actionable steps students can take to help improve water quality. This interactive session provided a foundational understanding of water systems and their impact on the environment.

L'Étoile du Nord French Immersion School
Third graders in Madame Henriette Ngo-Bissoy's science class at L'Étoile du Nord French Immersion School participated in a seed stratifying lesson on January 14th and January 22th. Two classes of 39 students worked with volunteers, including RCMGs and community members, to clean and stratify seeds from 10 native species. The collaborative effort emphasized the importance of native plants and their role in supporting local biodiversity.

St. Peter Catholic School
On January 15th and 22nd, fourth and fifth-grade students (42 total) at St. Peter Catholic School participated in two days of watershed education and seed stratifying activities. On the first day, both grades learned about watersheds and pollutants, with the fourth graders taking a field trip to an on-site garden to collect seed heads. On the second day, the fourth graders focused on seed stratifying with assistance from two RCMGs and a former teacher/gardener. They cleaned and stratified seeds from five native species, linking classroom concepts to real-world applications.

American Indian Magnet School
On January 16, 2025, two fifth-grade classes (48 students) at the American Indian Magnet School participated in a seed stratifying lesson. Volunteers, including RCMGs and Minnesota Water Stewards, guided the students in cleaning and preparing seeds from 12 native species. The lesson highlighted the cultural and environmental significance of native plants and reinforced ecological stewardship.

Adult Education and Outreach

Harmony Learning Center
At the Harmony Learning Center, adult English Language Learners engaged in two educational sessions on January 28 and 30, 2025. The first day focused on watershed education, including key vocabulary, watershed basics, water pollutants, and their impacts. The second day involved a seed stratifying lesson with the help of two RCMGs. Across three classes (58 students), participants prepared seeds from 15 native species, blending language learning with environmental stewardship in a meaningful and practical way.

Other education/outreach initiatives:

- Phalen Freeze Planning began. Event will take place on February 22. RWMWD and CRWD will be collaborating on an activity

- 1/30/25: Blue Thumb Partnership Celebration Event

Communications and Engagement Highlights

50th Anniversary Planning and Watershed Week

A workteam of program and communications staff met with our graphic design contractor to brainstorm 50th anniversary branding, print content needs, and campaign graphics. This content will be integrated into communications and event materials throughout the year, beginning at the end of March. We also worked with the WaterFest planning team to discuss how 50th anniversary content could be integrated into the event promotion and throughout the grounds at the festival itself.

Watershed Week

After viewing a presentation about a similar event series at the Minnesota Watersheds Conference, the Engagement team decided to introduce Watershed Week as part of the 50th anniversary planning. Watershed Week will be five events throughout the week of August 2nd – 9th that we designed to attract members of the public with low awareness or engagement with their local watershed organizations to get a wider audience engaged with protecting and preserving water resources. These dates overlap with National Night Out, which will be part of the Watershed Week events with expanded activities and staffing. Although we are still finalizing the event lineup, a bike tour of the Phalen Lake Chain is tentatively scheduled for the first weekend, and a self-guided tour of exceptional LEAP sites has also been discussed. The Watershed Week events schedule will be finalized by April to allow for promotion at tabling events and WaterFest.

Chloride Pollution Outreach

GreenCorps Cooper Klotzbach has started organizing a chloride education outreach opportunity for the end of the month. This initiative aims to raise awareness about the environmental impact of chloride usage, with a particular focus on engaging local anglers. To achieve this, we plan to set up informational tables at sporting goods stores and bait shops within the district. These tables will have resources on smart salting practices, water softeners' contribution to chloride pollution, and the effects of chloride on fish populations. By connecting with anglers, we hope to encourage greater adoption of smart salting practices, as this group has a vested interest in the health of our local lakes.

Website Content Updates

Communications is working with Natural Resources, Inspections and Permitting, and the Stewardship Grant program to update or expand their sections of the website. We are working with Inspections and Permitting to add pages covering BMP maintenance inspections and will also assist with stakeholder targeted messaging after the updates are completed.

Newsletter

Opens: 49.4%
Clicks: 3.7%
Audience: 1,654

Social Media (Facebook, YouTube, Instagram, LinkedIn)

Facebook

Views: 522
Followers: 1,729

Instagram

Reach: 623
Engagement: 468
Audience: 981

YouTube

Views: 706
Watch time (hours): 19.2
Subscribers: 353
Viewers: 560

LinkedIn

Reach: 648
Audience: 465